

GEARS

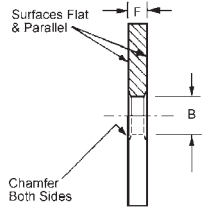
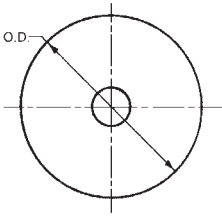
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| | | 72 Pitch | B 262 |
| | | 96 Pitch | B 262 |
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For metric options, please see our metric catalog.

GEAR BLANKS

| STYLE | BORE | FACE | MATERIAL |
|---------|------|--------------|------------------------------|
| HUBLESS | 3/8" | 1/8" TO 1/2" | 2024-T4 ALUMINUM ANODIZED |

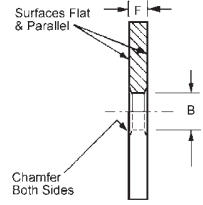
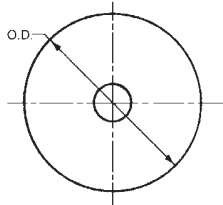


| STOCK NO. | B BORE | F FACE | ANODIZED COLOR | MAX O.D. |
|-----------|--------|--------|----------------|----------|
| FB79A-* | .375 | 3/4 | GREEN | 5.166 |
| FB78A-* | | 1/2 | BLUE | 5.375 |
| FB74A-* | | 3/8 | BROWN | 6.000 |
| FB77A-* | | 1/4 | RED | 6.083 |
| FB76A-* | | 3/16 | GOLD | 4.063 |
| FB75A-* | | 1/8 | BLACK | 3.106 |

To order specify Blank Designator - Material Code - O.D. in inches.
 Example: **FB79 A - 2.750**

Designator Number
Material Code
O.D.

| STYLE | BORE | FACE | MATERIAL |
|---------|----------------|---------------|-----------------------------|
| HUBLESS | 3/8" TO 1-3/8" | 1/16" TO 1/2" | SEE MATERIAL CODES BELOW |



- Ideal for:
- Gears
 - Pulleys
 - Cams
 - Sprockets
 - Handles
 - Wheels
 - Ratchets
- Material Codes:
- A - 2024-T4 Aluminum - Anodized
 - B - Tobin Bronze Alloy 464
 - D - Delrin®
 - N - Nylon - with Stainless Steel Bushing in Bore
 - S - 303 Stainless Steel
 - U - Polyurethane

To order specify Blank Designator - Material Code - O.D. in inches.
 Example: **FB3 A - 2.750**

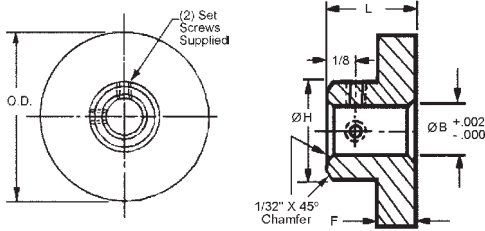
Designator Number
Material Code
O.D.

| BLANK DESIGNATOR | B BORE | F FACE | MAX. AVAILABLE MATERIAL | ANODIZE STOCK O.D. | COLOR (ALUM.ONLY) |
|------------------|-----------------|-----------------|-------------------------|--------------------|-------------------|
| FB1 | +.0005 .3748 | 1/16 | A, S | 3.125 | GRAY |
| FB2 | | 3/32 | A, S | 4.250 | GRAY |
| FB3 | | 1/8 | A, N, S, U* | 4.250 | GRAY |
| FB5 | | 3/16 | A, D**, S | 4.250 | GRAY |
| FB6 | | 1/4 | A, S, U* | 7.500 | GRAY |
| FB75 | | 1/8 | A | 3.106 | BLACK |
| FB76 | +.002 .375 | 3/16 | A | 4.063 | GOLD |
| FB77 | | 1/4 | A | 6.083 | RED |
| FB74 | | 3/8 | A | 6.000 | BROWN |
| FB78 | | 1/2 | A | 5.375 | BLUE |
| FB79 | | 3/4 | A | 5.166 | GREEN |
| FB17 | | +.0005 .6871 | 1/8 | A, S, U* | 4.250 |
| FB19 | 3/16 | | A, D, S | 4.250 | GRAY |
| FB18 | 1/4 | | A, S, U* | 7.500 | GRAY |
| FB20 | 3/8 | | A, B, S, U* | 5.750 | GRAY |
| FB25 | +.002 1.374 | 1/8 | S | 4.250 | - |
| FB26 | | 3/16 | S | 4.250 | - |
| FB27 | | 1/4 | S | 7.500 | - |
| FB50 | | 3/8 | S | 5.250 | - |
| FB60 | | 1/2 | S | 12.000 | - |

* Urethane Bore Tolerance ±.0005 for up to 1/2" bores and ±.001 for all bores over 1/2".
 ** FB5D Bore is .3750.

GEAR BLANKS

| STYLE | BORE | FACE | MATERIAL |
|---------|--------------|--------------|------------------------------|
| PIN HUB | 1/8" TO 5/8" | 1/8" TO 3/4" | 2024-T4 ALUMINUM ANODIZED |



*To order specify Blank Designator - O.D. in inches.

Example: PBA74A - 2.750

Designator Number ↖ ↗ O.D.

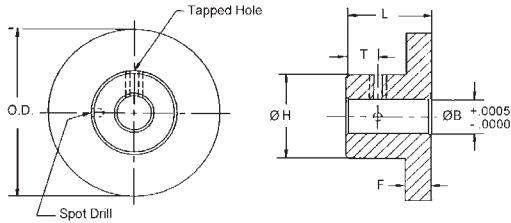
| STOCK NO. | B BORE | F FACE | H HUB DIA. | L | SET SCREWS | ANODIZED COLOR | MAX. OUTSIDE DIA. |
|-----------|--------|--------|------------|------|------------|----------------|-------------------|
| PB72A-* | .375 | | | | | | 3.125 |
| PB73A-* | .500 | 3/4 | 1-1/4 | 1 | #8-32 | GREEN | 5.250 |
| PB74A-* | .625 | | | | | | 5.250 |
| PB69A-* | .250 | | | | | | 2.125 |
| PB70A-* | .375 | 1/2 | 1 | 3/4 | #8-32 | BLUE | 5.500 |
| PB71A-* | .500 | | | | | | 5.500 |
| PB57A-* | .250 | | | | | | |
| PB58A-* | .375 | 3/8 | 3/4 | 5/8 | #8-32 | BROWN | 6.000 |
| PB59A-* | .500 | | | | | | |
| PB66A-* | .250 | | | | | | |
| PB67A-* | .375 | 1/4 | 3/4 | 1/2 | #8-32 | RED | 6.500 |
| PB68A-* | .500 | | | | | | |
| PB65A-* | .125 | | | | | | |
| PB64A-* | .187 | 3/16 | 5/8 | 7/16 | #4-40 | GOLD | 4.063 |
| PB63A-* | .250 | | | | | | |
| PB62A-* | .125 | | | | | | |
| PB61A-* | .187 | 1/8 | 1/2 | 3/8 | #4-40 | BLACK | 3.106 |
| PB60A-* | .250 | | | | | | |

Ideal for:

- Gears
- Pulleys
- Cams
- Sprockets
- Handles
- Wheels

GEAR BLANKS

| STYLE | BORE | FACE | MATERIAL |
|---------|----------------|---------------|--------------------------|
| PIN HUB | .1200 to .4998 | 1/16" TO 1/2" | SEE MATERIAL CODES BELOW |



To order specify Blank Designator - Material Code - O.D. in inches.

Example: PB28 A - 2.250



| STOCK NO. | B BORE | F FACE WIDTH | H | L | T | TAPPED HOLE | SPOT DRILL | MATERIALS AVAILABLE | MAX. STOCK O.D. |
|-----------|--------|--------------|------|-------|-----|-------------|------------|---------------------|-----------------|
| PB3 | .1200 | 1/16 | 5/16 | 1/4 | .09 | #2-56 | #69 | A, S | 2.000 |
| PB2 | | 3/32 | | 9/32 | | | | A, S | 2.000 |
| PB1 | | 1/8 | | 5/16 | | | | A, S | 1.500 |
| PB5 | .1248 | 1/16 | 5/16 | 1/4 | .09 | #2-56 | #69 | A, S | 2.000 |
| PB7 | | 3/32 | | 9/32 | | | | A, S | 2.000 |
| PB10 | | 1/8 | | 5/16 | | | | A, N, S | 2.625 |
| PB13 | | 3/16 | | 13/32 | | | | B | 2.625 |
| PB14 | | 3/16 | | 3/8 | | | | A, S | 1.750 |
| PB15 | .1562 | 1/8 | 5/16 | 5/16 | .09 | #2-66 | #69 | A, S | 1.750 |
| PB16 | .1873 | 1/16 | 5/16 | 1/4 | .09 | #4-40 | #60 | A, S | 1.375 |
| PB17 | | 3/32 | 3/8 | 5/16 | .11 | | | A, S | 2.500 |
| PB19 | | 1/8 | 3/8 | 11/32 | | | | A, S | 3.250 |
| PB21 | | 3/16 | 3/8 | 13/32 | | | | A, B, N, S | 4.500 |
| PB24 | .2405 | 3/16 | 3/8 | 13/32 | | .11 | #4-40 | #60 | A, S |
| PB25 | .2498 | 3/32 | 7/16 | 5/16 | .12 | #6-32 | #50 | A, S | 2.000 |
| PB26 | | 1/8 | 1/2 | 3/8 | | | | A, S | 4.250 |
| PB28 | | 3/16 | 1/2 | 7/16 | | | | A, N, S | 4.500 |
| PB29 | | 3/16 | 1/2 | 13/32 | | | | B | 5.750 |
| PB30 | .3123 | 3/16 | 1/2 | 13/32 | .12 | #6-32 | #50 | B | 3.250 |
| PB32 | | 3/16 | 1/2 | 7/16 | .12 | #6-32 | #50 | A, S | 4.437 |
| PB33 | | 1/4 | 3/4 | 5/8 | .18 | #8-32 | #42 | S | 4.250 |
| PB35 | .3748 | 3/8 | 3/4 | 7/8 | .25 | #10-24 | #31 | A, B, S | 4.250 |
| PB36 | | 1/2 | | 1 | | | | S | 4.250 |
| PB34 | .3750 | 3/8 | 3/4 | 3/4 | .19 | #10-32 | - | B, S | 2.000 |
| PB37 | .4998 | 3/8 | 1 | 7/8 | .25 | #10-24 | #31 | B, S | 6.415 |
| PB38 | | 1/2 | | 1 | | | | A, S | 4.500 |

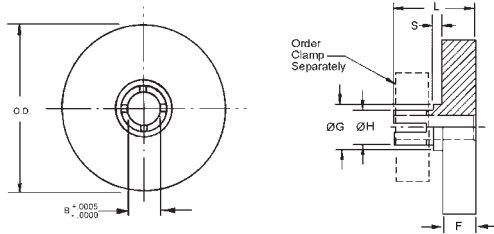
- Ideal for:
- Gears
 - Pulleys
 - Cams
 - Sprockets
 - Handles
 - Wheels
 - Ratchets

Material Codes:

- A - 2024-T4 Aluminum - Gray Chromic Anodized
- B - Tobin Bronze Alloy 464
- N - Nylon - with Stainless Steel Bushing in Bore
- S - 303 Stainless Steel

GEAR BLANKS

| STYLE | BORE | FACE | MATERIAL |
|-----------|----------------|--------------|--------------------------|
| CLAMP HUB | .1200 to .4998 | 1/8" TO 3/8" | SEE MATERIAL CODES BELOW |



To order specify Blank Designator - Material Code - O.D. in inches.
 Example: **CB18 S - 1.250**
 Designator Number Material Code O.D.

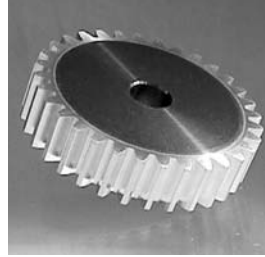
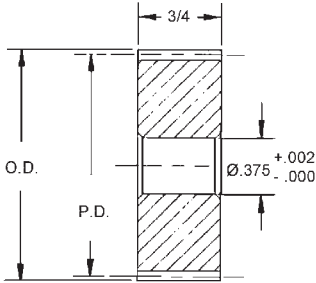
| BLANK STOCK NO. | B BORE | F FACE WIDTH | H +.000 -.003 | L | G FLANGE | S DIA. | CLAMP STOCK NO. | MATERIALS AVAILABLE | MAX. STOCK O.D. |
|-----------------|--------|--------------|------------------|-------|----------|--------|-----------------|---------------------|-----------------|
| CB36 | .1200 | 1/8 | .188 | 13/32 | 1/4 | 1/32 | CG3-1 | A,S | 1.625 |
| CB4 | .1248 | 1/16 | .188 | 19/64 | 1/4 | 1/32 | CG1-5 | A,S | 1.125 |
| CB5 | | 3/32 | | 21/64 | | | CG1-5 | A,S | 1.625 |
| CB7 | | 1/8 | | 13/32 | | | CG3-1 | A,S | 2.375 |
| CB8 | | 3/16 | | 15/32 | | | CG3-1 | B | 2.000 |
| CB10 | .1873 | 3/32 | .250 | 21/64 | 5/16 | 1/32 | CG1-8 | A,S | 1.500 |
| CB14 | | 1/8 | | 13/32 | 5/16 | 1/32 | CG1-9 | A,S | 2.500 |
| CB16 | | 3/16 | | 1/2 | 11/32 | 3/64 | CG1-9 | B,S | 2.000 |
| CB18 | .2498 | 1/8 | .312 | 13/32 | 3/8 | 1/32 | CG1-12 | A,S | 4.250 |
| CB20 | | 3/16 | | 1/2 | 13/32 | 3/64 | CG1-12 | A,B,S | 5.750 |
| CB22 | .3123 | 1/4 | .375 | 9/16 | 11/16 | 1/16 | CG1-14 | S | 4.250 |
| CB25 | .3748 | 1/4 | .437 | 5/8 | 11/16 | 1/16 | CG1-17 | S | 4.250 |
| CB29 | .4998 | 3/8 | .562 | 3/4 | 13/16 | 1/16 | CG1-19 | S | 4.250 |

- Ideal for:
- Gears
 - Pulleys
 - Cams
 - Sprockets
 - Handles
 - Wheels
 - Ratchets

- Material Codes:
- A - 2024-T4 Aluminum - Gray Chromic Anodized
 - B - Tobin Bronze Alloy 464
 - S - 303 Stainless Steel

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|------------------------------|--------------|----------------|
| 12 | HUBLESS | 3/8" | 3/4" | Aluminum Anodized (Green) | 8 | 20° |



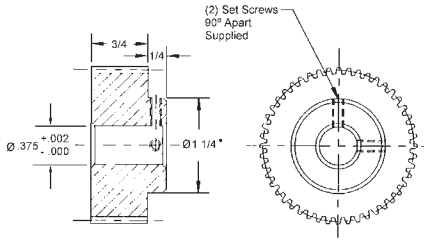
| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| F12A79-12 | 12 | 1.0000 | 1.166 |
| F12A79-13 | 13 | 1.0833 | 1.250 |
| F12A79-14 | 14 | 1.1666 | 1.333 |
| F12A79-15 | 15 | 1.2500 | 1.416 |
| F12A79-16 | 16 | 1.3333 | 1.500 |
| F12A79-18 | 18 | 1.5000 | 1.666 |
| F12A79-20 | 20 | 1.6666 | 1.833 |
| F12A79-21 | 21 | 1.7500 | 1.916 |
| F12A79-22 | 22 | 1.8333 | 2.000 |
| F12A79-24 | 24 | 2.0000 | 2.166 |
| F12A79-30 | 30 | 2.5000 | 2.666 |
| F12A79-32 | 32 | 2.6666 | 2.833 |
| F12A79-36 | 36 | 3.0000 | 3.166 |

Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------------|--------------|----------------|
| 12 | PIN HUB | 3/8" | 3/4" | Aluminum Anodized (Green) | 8 | 20° |

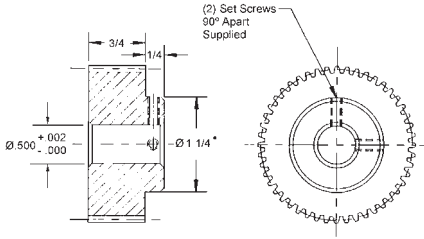


| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P12A72-12 | 12* | 1.0000 | 1.166 |
| P12A72-13 | 13* | 1.0833 | 1.250 |
| P12A72-14 | 14* | 1.1666 | 1.333 |
| P12A72-15 | 15* | 1.2500 | 1.416 |
| P12A72-16 | 16* | 1.3333 | 1.500 |
| P12A72-18 | 18 | 1.5000 | 1.666 |
| P12A72-20 | 20 | 1.6666 | 1.833 |
| P12A72-21 | 21 | 1.7500 | 1.916 |
| P12A72-22 | 22 | 1.8333 | 2.000 |
| P12A72-24 | 24 | 2.0000 | 2.166 |
| P12A72-30 | 30 | 2.5000 | 2.666 |
| P12A72-32 | 32 | 2.6666 | 2.833 |
| P12A72-36 | 36 | 3.0000 | 3.166 |



• For 10 - 17 teeth hub diameter equals .62.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------------|--------------|----------------|
| 12 | PIN HUB | 1/2" | 3/4" | Aluminum Anodized (Green) | 8 | 20° |

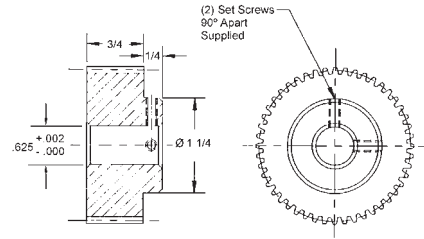


| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P12A73-12 | 12* | 1.0000 | 1.166 |
| P12A73-13 | 13* | 1.0833 | 1.250 |
| P12A73-14 | 14* | 1.1666 | 1.333 |
| P12A73-15 | 15* | 1.2500 | 1.416 |
| P12A73-16 | 16* | 1.3333 | 1.500 |
| P12A73-18 | 18 | 1.5000 | 1.666 |
| P12A73-20 | 20 | 1.6666 | 1.833 |
| P12A73-21 | 21 | 1.7500 | 1.916 |
| P12A73-22 | 22 | 1.8333 | 2.000 |
| P12A73-24 | 24 | 2.0000 | 2.166 |
| P12A73-30 | 30 | 2.5000 | 2.666 |
| P12A73-32 | 32 | 2.6666 | 2.833 |
| P12A73-36 | 36 | 3.0000 | 3.166 |
| P12A73-40 | 40 | 3.3333 | 3.500 |
| P12A73-42 | 42 | 3.5000 | 3.666 |
| P12A73-48 | 48 | 4.0000 | 4.166 |
| P12A73-54 | 54 | 4.5000 | 4.666 |
| P12A73-60 | 60 | 5.0000 | 5.166 |



• For 11 - 17 teeth hub diameter equals .71.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------------|--------------|----------------|
| 12 | PIN HUB | 5/8" | 3/4" | Aluminum Anodized (Green) | 8 | 20° |



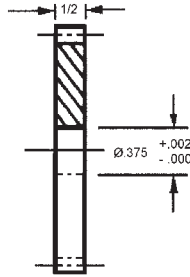
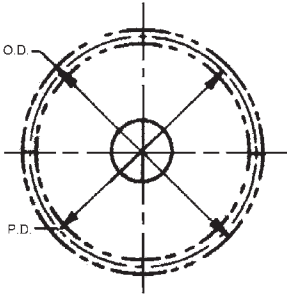
| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P12A74-18 | 18 | 1.5000 | 1.666 |
| P12A74-20 | 20 | 1.6666 | 1.833 |
| P12A74-21 | 21 | 1.7500 | 1.916 |
| P12A74-22 | 22 | 1.8333 | 2.000 |
| P12A74-24 | 24 | 2.0000 | 2.166 |
| P12A74-30 | 30 | 2.5000 | 2.666 |
| P12A74-32 | 32 | 2.6666 | 2.833 |
| P12A74-36 | 36 | 3.0000 | 3.166 |
| P12A74-40 | 40 | 3.3333 | 3.500 |
| P12A74-42 | 42 | 3.5000 | 3.666 |
| P12A74-48 | 48 | 4.0000 | 4.166 |
| P12A74-54 | 54 | 4.5000 | 4.666 |
| P12A74-60 | 60 | 5.0000 | 5.166 |



Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

SPUR GEARS

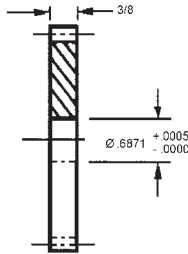
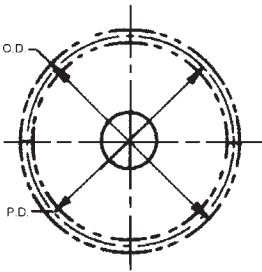
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 16 | HUBLESS | 3/8" | 1/2" | Aluminum Anodized (BLUE) | 8 | 20° |



| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| F16A78-12 | 12 | .7500 | .875 |
| F16A78-13 | 13 | .8125 | .937 |
| F16A78-14 | 14 | .8750 | 1.000 |
| F16A78-15 | 15 | .9375 | 1.062 |
| F16A78-16 | 16 | 1.0000 | 1.125 |
| F16A78-18 | 18 | 1.1250 | 1.250 |
| F16A78-20 | 20 | 1.2500 | 1.375 |
| F16A78-22 | 22 | 1.3750 | 1.500 |
| F16A78-24 | 24 | 1.5000 | 1.625 |
| F16A78-26 | 26 | 1.6250 | 1.750 |
| F16A78-28 | 28 | 1.7500 | 1.875 |
| F16A78-30 | 30 | 1.8750 | 2.000 |
| F16A78-32 | 32 | 2.0000 | 2.120 |
| F16A78-36 | 36 | 2.2500 | 2.375 |
| F16A78-40 | 40 | 2.5000 | 2.625 |
| F16A78-48 | 48 | 3.0000 | 3.125 |
| F16A78-54 | 54 | 3.3750 | 3.500 |
| F16A78-56 | 56 | 3.5000 | 3.625 |
| F16A78-60 | 60 | 3.7500 | 3.875 |
| F16A78-64 | 64 | 4.0000 | 4.125 |
| F16A78-72 | 72 | 4.5000 | 4.625 |
| F16A78-80 | 80 | 5.0000 | 5.125 |
| F16A78-84 | 84 | 5.2500 | 5.375 |

Available on request:
Other numbers of teeth; 14 - 1/2° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|--------|------|---------------------|--------------|----------------|
| 16 | HUBLESS | 11/16" | 3/8" | 303 STAINLESS STEEL | 9 | 20° |



| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| F16S20-18 | 18 | 1.1250 | 1.250 |
| F16S20-20 | 20 | 1.2500 | 1.375 |
| F16S20-24 | 24 | 1.5000 | 1.625 |
| F16S20-28 | 28 | 1.7500 | 1.875 |
| F16S20-30 | 30 | 1.8750 | 2.000 |
| F16S20-32 | 32 | 2.0000 | 2.125 |
| F16S20-36 | 36 | 2.2500 | 2.375 |
| F16S20-40 | 40 | 2.5000 | 2.625 |
| F16S20-48 | 48 | 3.0000 | 3.125 |
| F16S20-56 | 56 | 3.5000 | 3.625 |
| F16S20-60 | 60 | 3.7500 | 3.875 |
| F16S20-64 | 64 | 4.0000 | 4.125 |

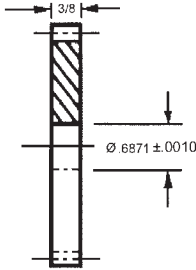
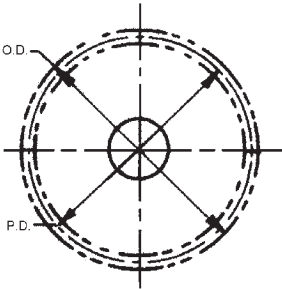
Available on request:
Other numbers of teeth; Pin or Clamp hubs assembled; 14 - 1/2° pressure angle.



For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

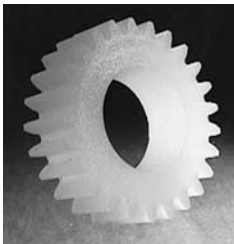
SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|--------|------|--------------|--------------|----------------|
| 16 | HUBLESS | 11/16" | 3/8" | POLYURETHANE | 8 | 20° |



| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| F16U20-18 | 18 | 1.1250 | 1.250 |
| F16U20-20 | 20 | 1.2500 | 1.375 |
| F16U20-24 | 24 | 1.5000 | 1.625 |
| F16U20-28 | 28 | 1.7500 | 1.875 |
| F16U20-30 | 30 | 1.8750 | 2.000 |
| F16U20-32 | 32 | 2.0000 | 2.120 |
| F16U20-36 | 36 | 2.2500 | 2.375 |
| F16U20-40 | 40 | 2.5000 | 2.625 |
| F16U20-48 | 48 | 3.0000 | 3.125 |
| F16U20-56 | 56 | 3.5000 | 3.625 |
| F16U20-60 | 60 | 3.7500 | 3.875 |
| F16U20-64 | 64 | 4.0000 | 4.125 |

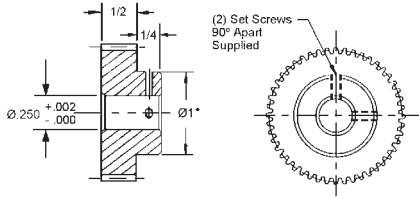
Available on request:
 Other numbers of teeth;
 Pin or Clamp hubs assembled;
 14 - 1/2° pressure angle.



For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 16 | PIN HUB | 1/4" | 1/2" | Aluminum Anodized (BLUE) | 8 | 20° |

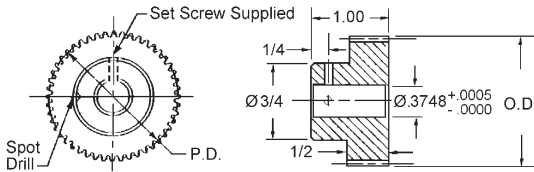


• For 10 - 18 teeth hub diameter equals .47.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16A69-12 | 12• | .7500 | .875 |
| P16A69-13 | 13• | .8125 | .937 |
| P16A69-14 | 14• | .8750 | 1.000 |
| P16A69-15 | 15• | .9375 | 1.062 |
| P16A69-16 | 16• | 1.0000 | 1.125 |
| P16A69-18 | 18• | 1.1250 | 1.250 |
| P16A69-20 | 20 | 1.2500 | 1.375 |
| P16A69-22 | 22 | 1.3750 | 1.500 |
| P16A69-24 | 24 | 1.5000 | 1.625 |
| P16A69-26 | 26 | 1.6250 | 1.750 |
| P16A69-28 | 28 | 1.7500 | 1.875 |
| P16A69-30 | 30 | 1.8750 | 2.000 |
| P16A69-32 | 32 | 2.0000 | 2.120 |



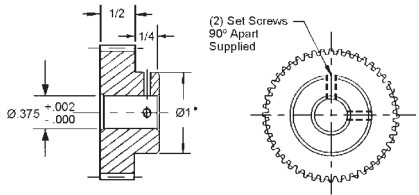
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------|--------------|----------------|
| 16 | PIN HUB | 3/8" | 1/2" | 303 STAINLESS STEEL | 10 | 20° |



Available on request:
other numbers of teeth; 14 - 1/2° pressure angle.

| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16S36-18 | 18 | 1.1250 | 1.250 |
| P16S36-20 | 20 | 1.2500 | 1.375 |
| P16S36-24 | 24 | 1.5000 | 1.625 |
| P16S36-28 | 28 | 1.7500 | 1.875 |
| P16S36-30 | 30 | 1.8750 | 2.000 |
| P16S36-32 | 32 | 2.0000 | 2.125 |
| P16S36-36 | 36 | 2.2500 | 2.375 |
| P16S36-40 | 40 | 2.5000 | 2.625 |
| P16S36-48 | 48 | 3.0000 | 3.125 |
| P16S36-56 | 56 | 3.5000 | 3.625 |
| P16S36-64 | 64 | 4.0000 | 4.125 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 16 | PIN HUB | 3/8" | 1/2" | Aluminum Anodized (BLUE) | 8 | 20° |



• For 12 - 18 teeth hub diameter equals .59.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

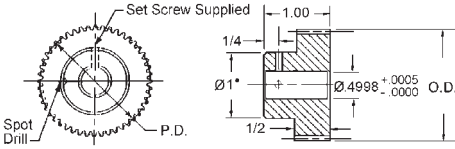
| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16A70-12 | 12• | .7500 | .875 |
| P16A70-13 | 13• | .8125 | .937 |
| P16A70-14 | 14• | .8750 | 1.000 |
| P16A70-15 | 15• | .9375 | 1.062 |
| P16A70-16 | 16• | 1.0000 | 1.125 |
| P16A70-18 | 18• | 1.1250 | 1.250 |
| P16A70-20 | 20 | 1.2500 | 1.375 |
| P16A70-22 | 22 | 1.3750 | 1.500 |
| P16A70-24 | 24 | 1.5000 | 1.625 |
| P16A70-26 | 26 | 1.6250 | 1.750 |
| P16A70-28 | 28 | 1.7500 | 1.875 |
| P16A70-30 | 30 | 1.8750 | 2.000 |
| P16A70-32 | 32 | 2.0000 | 2.120 |
| P16A70-36 | 36 | 2.2500 | 2.375 |
| P16A70-40 | 40 | 2.5000 | 2.625 |
| P16A70-48 | 48 | 3.0000 | 3.125 |
| P16A70-54 | 54 | 3.3750 | 3.500 |
| P16A70-56 | 56 | 3.5000 | 3.625 |
| P16A70-60 | 60 | 3.7500 | 3.875 |
| P16A70-64 | 64 | 4.0000 | 4.125 |
| P16A70-72 | 72 | 4.5000 | 4.625 |
| P16A70-80 | 80 | 5.0000 | 5.125 |
| P16A70-84 | 84 | 5.2500 | 5.375 |



For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------|--------------|----------------|
| 16 | PIN HUB | 1/2" | 1/2" | 303 STAINLESS STEEL | 10 | 20° |

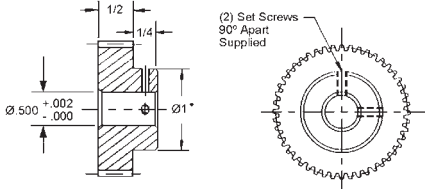


| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16S38-18 | 18* | 1.1250 | 1.250 |
| P16S38-20 | 20 | 1.2500 | 1.375 |
| P16S38-24 | 24 | 1.5000 | 1.625 |
| P16S38-28 | 28 | 1.7500 | 1.875 |
| P16S38-30 | 30 | 1.8750 | 2.000 |
| P16S38-32 | 32 | 2.0000 | 2.125 |
| P16S38-36 | 36 | 2.2500 | 2.375 |
| P16S38-40 | 40 | 2.5000 | 2.625 |
| P16S38-48 | 48 | 3.0000 | 3.125 |
| P16S38-56 | 56 | 3.5000 | 3.625 |
| P16S38-64 | 64 | 4.0000 | 4.125 |

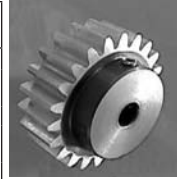


• For 15 - 18 teeth hub diameter equals .78.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 16 | PIN HUB | 1/2" | 1/2" | Aluminum Anodized (BLUE) | 8 | 20° |



| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16A71-16 | 16* | 1.0000 | 1.125 |
| P16A71-18 | 18* | 1.1250 | 1.250 |
| P16A71-20 | 20 | 1.2500 | 1.375 |
| P16A71-22 | 22 | 1.3750 | 1.500 |
| P16A71-24 | 24 | 1.5000 | 1.625 |
| P16A71-26 | 26 | 1.6250 | 1.750 |
| P16A71-28 | 28 | 1.7500 | 1.875 |
| P16A71-30 | 30 | 1.8750 | 2.000 |
| P16A71-32 | 32 | 2.0000 | 2.120 |
| P16A71-36 | 36 | 2.2500 | 2.375 |
| P16A71-40 | 40 | 2.5000 | 2.625 |
| P16A71-48 | 48 | 3.0000 | 3.125 |
| P16A71-54 | 54 | 3.3750 | 3.500 |
| P16A71-56 | 56 | 3.5000 | 3.625 |
| P16A71-60 | 60 | 3.7500 | 3.875 |
| P16A71-64 | 64 | 4.0000 | 4.125 |
| P16A71-72 | 72 | 4.5000 | 4.625 |
| P16A71-80 | 80 | 5.0000 | 5.125 |
| P16A71-84 | 84 | 5.2500 | 5.375 |

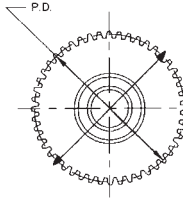
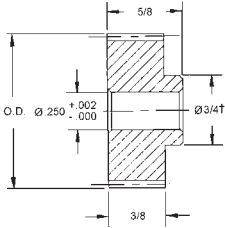


• For 16 - 18 teeth hub diameter equals .84.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 16 | PIN HUB | 1/4" | 3/8" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER, GREEN | 8 | 20° |



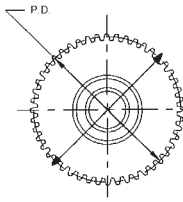
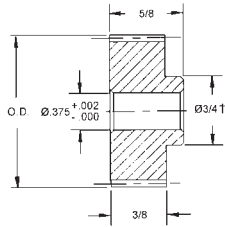
| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16U57-12 | 12† | .7500 | .875 |
| P16U57-16 | 16 | 1.0000 | 1.125 |
| P16U57-18 | 18 | 1.1250 | 1.250 |
| P16U57-20 | 20 | 1.2500 | 1.375 |
| P16U57-24 | 24 | 1.5000 | 1.625 |
| P16U57-28 | 28 | 1.7500 | 1.875 |
| P16U57-30 | 30 | 1.8750 | 2.000 |
| P16U57-32 | 32 | 2.0000 | 2.125 |
| P16U57-40 | 40 | 2.5000 | 2.625 |
| P16U57-48 | 48 | 3.0000 | 3.125 |



† Teeth runout on hub.

Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 16 | PIN HUB | 3/8" | 3/8" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER, GREEN | 8 | 20° |



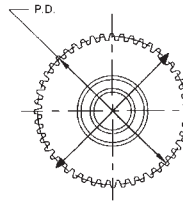
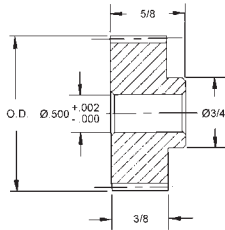
| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16U58-12 | 12† | .7500 | .875 |
| P16U58-16 | 16 | 1.0000 | 1.125 |
| P16U58-18 | 18 | 1.1250 | 1.250 |
| P16U58-20 | 20 | 1.2500 | 1.375 |
| P16U58-24 | 24 | 1.5000 | 1.625 |
| P16U58-28 | 28 | 1.7500 | 1.875 |
| P16U58-30 | 30 | 1.8750 | 2.000 |
| P16U58-32 | 32 | 2.0000 | 2.125 |
| P16U58-40 | 40 | 2.5000 | 2.625 |
| P16U58-48 | 48 | 3.0000 | 3.125 |



† Teeth runout on hub.

Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 16 | PIN HUB | 1/2" | 3/8" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER, GREEN | 8 | 20° |



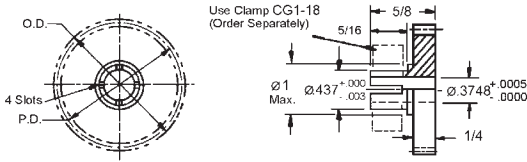
| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| P16U59-16 | 16 | 1.0000 | 1.125 |
| P16U59-18 | 18 | 1.1250 | 1.250 |
| P16U59-20 | 20 | 1.2500 | 1.375 |
| P16U59-24 | 24 | 1.5000 | 1.625 |
| P16U59-28 | 28 | 1.7500 | 1.875 |
| P16U59-30 | 30 | 1.8750 | 2.000 |
| P16U59-32 | 32 | 2.0000 | 2.125 |
| P16U59-40 | 40 | 2.5000 | 2.625 |
| P16U59-48 | 48 | 3.0000 | 3.125 |



Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

SPUR GEARS

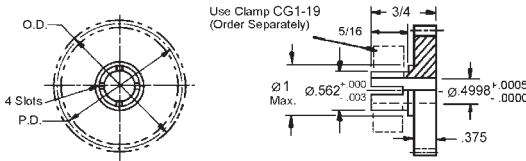
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-----------|------|------|---------------------|--------------|----------------|
| 16 | CLAMP HUB | 3/8" | 1/4" | 303 STAINLESS STEEL | 9 | 20° |



| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| C16S25-16 | 16 | 1.0000 | 1.125 |
| C16S25-18 | 18 | 1.1250 | 1.250 |
| C16S25-20 | 20 | 1.2500 | 1.375 |
| C16S25-24 | 24 | 1.5000 | 1.625 |
| C16S25-32 | 32 | 2.0000 | 2.125 |
| C16S25-40 | 40 | 2.5000 | 2.625 |
| C16S25-48 | 48 | 3.0000 | 3.125 |

Available on request: other numbers of teeth;
 AGMA Quality 12 and 14;
 14 - 1/2° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-----------|------|------|---------------------|--------------|----------------|
| 16 | CLAMP HUB | 1/2" | 3/8" | 303 STAINLESS STEEL | 9 | 20° |



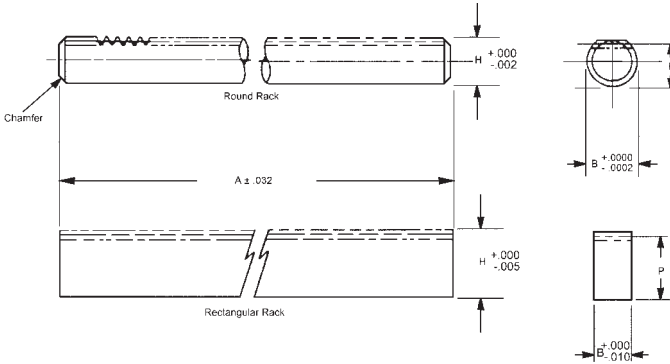
| STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|-----------|--------------|--------|-------|
| C16S29-16 | 16 | 1.0000 | 1.125 |
| C16S29-18 | 18 | 1.1250 | 1.250 |
| C16S29-20 | 20 | 1.2500 | 1.375 |
| C16S29-24 | 24 | 1.5000 | 1.625 |
| C16S29-32 | 32 | 2.0000 | 2.125 |
| C16S29-40 | 40 | 2.5000 | 2.625 |
| C16S29-48 | 48 | 3.0000 | 3.125 |

Available on request: other numbers of teeth;
 14 - 1/2° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

GEAR RACKS

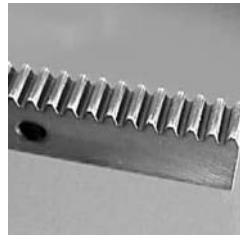
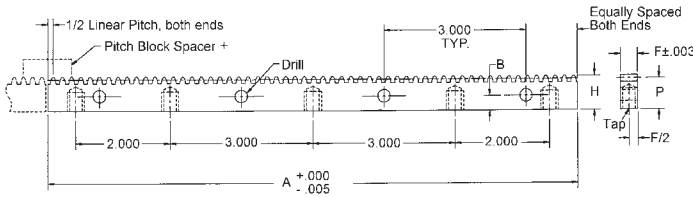
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 16 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 8 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-------|----|------|--------------|
| R2-1 | ROUND | 16 | .6175 | .7497 | 24 | .680 | 8 |
| R2-7 | RECTANGULAR | 16 | .6625 | .365 | 24 | .725 | 8 |

Available on request: 14 - 1/2° pressure angle, special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 16 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



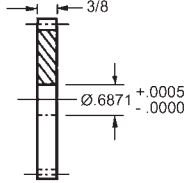
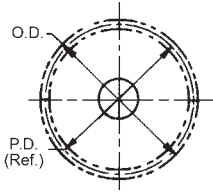
+Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | SPACER BLOCK | AGMA QTY. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 / -.005 | F | B | DRILL | TAP |
|-----------|--------------|-----------|------------------|----------------------|-------|--------------|--------|--------|-----------------|------|------|-------|--------------|
| STOCK NO. | STOCK NO. | NO. | | | | | | | | | | | |
| R1-1-G1 | R1-1-SB | 10* | .0014 | .0005 | 16 | .1963 | 11.185 | .6625 | .725 | .365 | .312 | 17/64 | #10-24 x 3/8 |

* Higher quality on request.

SPUR GEARS

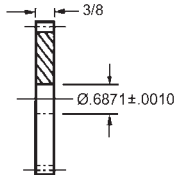
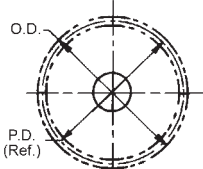
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|--------|------|------------------------|--------------|----------------|
| 20 | HUBLESS | 11/16" | 3/8" | 303 STAINLESS STEEL | 9 | 20° |



Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F20S20-24 | 24 | 1.2000 | 1.300 |
| F20S20-25 | 25 | 1.2500 | 1.350 |
| F20S20-30 | 30 | 1.5000 | 1.600 |
| F20S20-35 | 35 | 1.7500 | 1.850 |
| F20S20-40 | 40 | 2.0000 | 2.100 |
| F20S20-45 | 45 | 2.2500 | 2.350 |
| F20S20-50 | 50 | 2.5000 | 2.600 |
| F20S20-60 | 60 | 3.0000 | 3.100 |
| F20S20-70 | 70 | 3.5000 | 3.600 |
| F20S20-80 | 80 | 4.0000 | 4.100 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|--------|------|--------------|--------------|----------------|
| 20 | HUBLESS | 11/16" | 3/8" | POLYURETHANE | 8 | 20° |



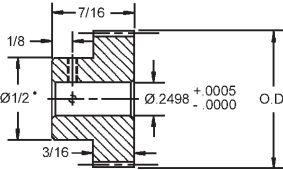
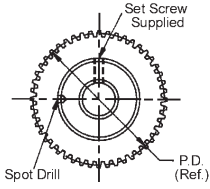
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F20U20-24 | 24 | 1.2000 | 1.300 |
| F20U20-25 | 25 | 1.2500 | 1.350 |
| F20U20-30 | 30 | 1.5000 | 1.600 |
| F20U20-35 | 35 | 1.7500 | 1.850 |
| F20U20-40 | 40 | 2.0000 | 2.100 |
| F20U20-45 | 45 | 2.2500 | 2.350 |
| F20U20-50 | 50 | 2.5000 | 2.600 |
| F20U20-60 | 60 | 3.0000 | 3.100 |
| F20U20-70 | 70 | 3.5000 | 3.600 |
| F20U20-80 | 80 | 4.0000 | 4.100 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

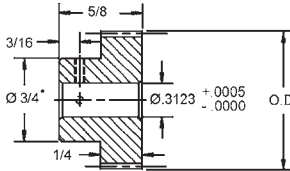
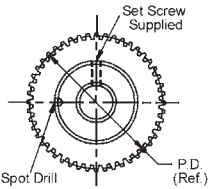
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---------------------|--------------|----------------|
| 20 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL | 10 | 20° |



- For 14 - 16 teeth hub diameter equals .57.
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P20S28-14 | 14• | .7000 | .800 |
| P20S28-15 | 15• | .7500 | .850 |
| P20S28-16 | 16• | .8000 | .900 |
| P20S28-18 | 18 | .9000 | 1.000 |
| P20S28-20 | 20 | 1.0000 | 1.100 |
| P20S28-24 | 24 | 1.2000 | 1.300 |
| P20S28-25 | 25 | 1.2500 | 1.350 |
| P20S28-30 | 30 | 1.5000 | 1.600 |
| P20S28-40 | 40 | 2.0000 | 2.100 |
| P20S28-50 | 50 | 2.5000 | 2.600 |
| P20S28-60 | 60 | 3.0000 | 3.100 |
| P20S28-70 | 70 | 3.5000 | 3.600 |
| P20S28-80 | 80 | 4.0000 | 4.100 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|------|---------------------|--------------|----------------|
| 20 | PIN HUB | 5/16" | 1/4" | 303 STAINLESS STEEL | 10 | 20° |



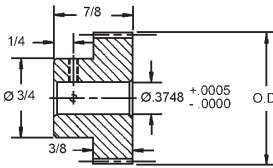
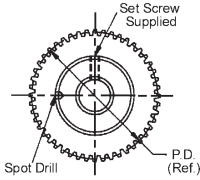
- For 14 - 16 teeth hub diameter equals .57.
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P20S33-14 | 14• | .7000 | .800 |
| P20S33-15 | 15• | .7500 | .850 |
| P20S33-16 | 16• | .8000 | .900 |
| P20S33-18 | 18 | .9000 | 1.000 |
| P20S33-20 | 20 | 1.0000 | 1.100 |
| P20S33-24 | 24 | 1.2000 | 1.300 |
| P20S33-25 | 25 | 1.2500 | 1.350 |
| P20S33-30 | 30 | 1.5000 | 1.600 |
| P20S33-40 | 40 | 2.0000 | 2.100 |
| P20S33-50 | 50 | 2.5000 | 2.600 |
| P20S33-60 | 60 | 3.0000 | 3.100 |
| P20S33-70 | 70 | 3.5000 | 3.600 |
| P20S33-80 | 80 | 4.0000 | 4.100 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

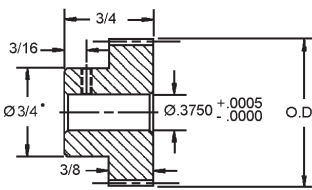
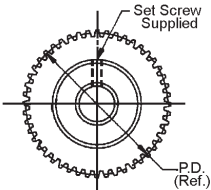
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------|--------------|----------------|
| 20 | PIN HUB | 3/8" | 3/8" | 303 STAINLESS STEEL | 10 | 20° |



Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P20S35-24 | 24 | 1.2000 | 1.300 |
| P20S35-25 | 25 | 1.2500 | 1.350 |
| P20S35-30 | 30 | 1.5000 | 1.600 |
| P20S35-35 | 35 | 1.7500 | 1.850 |
| P20S35-40 | 40 | 2.0000 | 2.100 |
| P20S35-45 | 45 | 2.5000 | 2.350 |
| P20S35-50 | 50 | 2.5000 | 2.600 |
| P20S35-60 | 60 | 3.0000 | 3.100 |
| P20S35-70 | 70 | 3.5000 | 3.600 |
| P20S35-80 | 80 | 4.0000 | 4.100 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 20 | PIN HUB | 3/8" | 3/8" | 303 STAINLESS STEEL OR BRONZE ALLOY 464 | 10 | 20° |

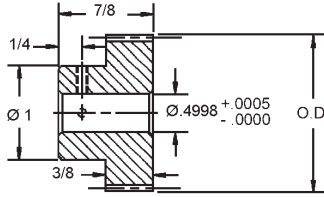
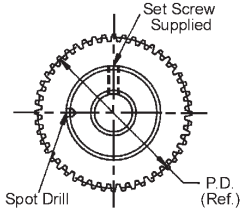


• For 14 - 16 teeth hub diameter equals .57
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | BRONZE ALLOY 464 STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|----------------------------|--------------|------------|--------------|
| P20S34-14 | P20B34-14 | 14* | .7000 | .800 |
| P20S34-15 | P20B34-15 | 15* | .7500 | .850 |
| P20S34-16 | P20B34-16 | 16* | .8000 | .900 |
| P20S34-18 | P20B34-18 | 18 | .9000 | 1.000 |
| P20S34-20 | P20B34-20 | 20 | 1.0000 | 1.100 |
| P20S34-24 | P20B34-24 | 24 | 1.2000 | 1.300 |
| P20S34-28 | P20B34-28 | 28 | 1.4000 | 1.500 |
| P20S34-30 | P20B34-30 | 30 | 1.5000 | 1.600 |
| P20S34-36 | P20B34-36 | 36 | 1.8000 | 1.900 |
| P20S34X-40 | P20B34X-40 | 40 | 2.0000 | 2.100 |
| P20S34X-48 | P20B34X-48 | 48 | 2.4000 | 2.500 |
| P20S34X-56 | P20B34X-56 | 56 | 2.8000 | 2.900 |
| P20S34X-60 | P20B34X-60 | 60 | 3.0000 | 3.100 |
| P20S34X-72 | P20B34X-72 | 72 | 3.6000 | 3.700 |
| P20S34X-80 | P20B34X-80 | 80 | 4.0000 | 4.100 |
| P20S34X-84 | P20B34X-84 | 84 | 4.2000 | 4.300 |
| P20S34X-96 | P20B34X-96 | 96 | 4.8000 | 4.900 |
| P20S34X-100 | P20B34X-100 | 100 | 5.0000 | 5.100 |

SPUR GEARS

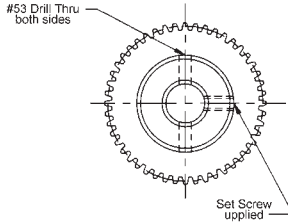
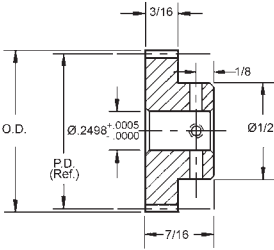
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------|--------------|----------------|
| 20 | PIN HUB | 1/2" | 3/8" | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P20S37-24 | 24 | 1.2000 | 1.300 |
| P20S37-25 | 25 | 1.2500 | 1.350 |
| P20S37-30 | 30 | 1.5000 | 1.600 |
| P20S37-35 | 35 | 1.7500 | 1.850 |
| P20S37-40 | 40 | 2.0000 | 2.100 |
| P20S37-45 | 45 | 2.5000 | 2.350 |
| P20S37-50 | 50 | 2.5000 | 2.600 |
| P20S37-60 | 60 | 3.0000 | 3.100 |
| P20S37-70 | 70 | 3.5000 | 3.600 |
| P20S37-80 | 80 | 4.0000 | 4.100 |

Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

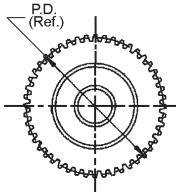
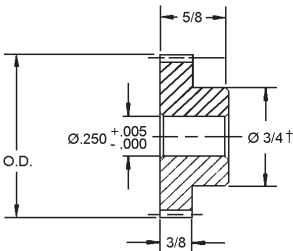
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|-------------------------------------|--------------|----------------|
| 20 | PIN HUB | 1/4" | 3/16" | 17-4 PH STAINLESS STEEL RC 32-38 | 10 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P20PH28-12 | 12 | .6000 | .700 |
| P20PH28-14 | 14 | .7000 | .800 |
| P20PH28-15 | 15 | .7500 | .850 |
| P20PH28-16 | 16 | .8000 | .900 |
| P20PH28-18 | 18 | .9000 | 1.000 |
| P20PH28-20 | 20 | 1.0000 | 1.100 |
| P20PH28-24 | 24 | 1.2000 | 1.300 |
| P20PH28-25 | 25 | 1.2500 | 1.350 |

Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 20 | PIN HUB | 1/4" | 3/8" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER, | 8 | 20° |

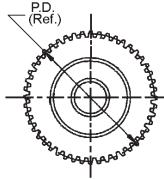
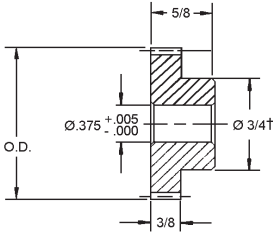


| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P20U57-15 | 15† | .7500 | .850 |
| P20U57-16 | 16† | .8000 | .900 |
| P20U57-20 | 20 | 1.0000 | 1.100 |
| P20U57-24 | 24 | 1.2000 | 1.300 |
| P20U57-25 | 25 | 1.2500 | 1.350 |
| P20U57-30 | 30 | 1.5000 | 1.600 |
| P20U57-35 | 35 | 1.7500 | 1.850 |
| P20U57-40 | 40 | 2.0000 | 2.100 |
| P20U57-50 | 50 | 2.5000 | 2.600 |
| P20U57-60 | 60 | 3.0000 | 3.100 |

† Teeth runout on hub.
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

SPUR GEARS

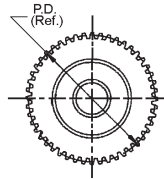
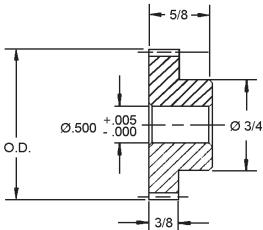
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 20 | PIN HUB | 3/8" | 3/8" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P20U58-15 | 15† | .7500 | .850 |
| P20U58-16 | 16† | .8000 | .900 |
| P20U58-20 | 20 | 1.0000 | 1.100 |
| P20U58-24 | 24 | 1.2000 | 1.300 |
| P20U58-25 | 25 | 1.2500 | 1.350 |
| P20U58-30 | 30 | 1.5000 | 1.600 |
| P20U58-35 | 35 | 1.7500 | 1.850 |
| P20U58-40 | 40 | 2.0000 | 2.100 |
| P20U58-50 | 50 | 2.5000 | 2.600 |
| P20U58-60 | 60 | 3.0000 | 3.100 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 20 | PIN HUB | 1/2" | 3/8" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



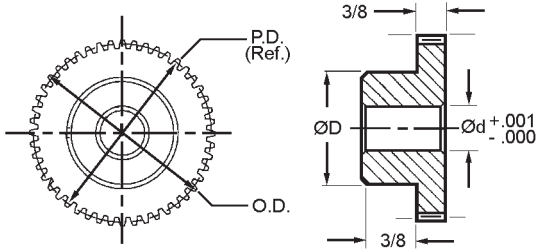
† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P20U59-16 | 16† | .8000 | .9000 |
| P20U59-20 | 20 | 1.0000 | 1.100 |
| P20U59-24 | 24 | 1.2000 | 1.300 |
| P20U59-25 | 25 | 1.2500 | 1.350 |
| P20U59-30 | 30 | 1.5000 | 1.600 |
| P20U59-35 | 35 | 1.7500 | 1.850 |
| P20U59-40 | 40 | 2.0000 | 2.100 |
| P20U59-50 | 50 | 2.5000 | 2.600 |
| P20U59-60 | 60 | 3.0000 | 3.100 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|--------------|------|--|--------------|----------------|
| 20 | PIN HUB | 1/4" TO 3/8" | 3/8" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 5 | 20° |



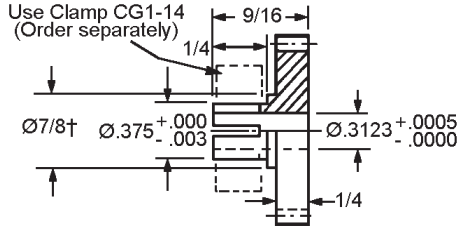
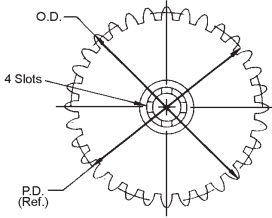
| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | $\varnothing d$ | $\varnothing D$ |
|-----------|--------------|------------|--------------|-----------------|-----------------|
| P20D4P-12 | 12 | .600 | .700 | 1/4 | 15/32 |
| P20D4P-13 | 13 | .650 | .750 | 1/4 | 1/2 |
| P20D4P-14 | 14 | .700 | .800 | 5/16 | 9/16 |
| P20D4P-15 | 15 | .750 | .850 | 5/16 | 19/32 |
| P20D4P-16 | 16 | .800 | .900 | 5/16 | 39/64 |
| P20D4P-17 | 17 | .850 | .950 | 5/16 | 43/64 |
| P20D4P-18 | 18 | .900 | 1.000 | 5/16 | 43/64 |
| P20D4P-19 | 19 | .950 | 1.050 | 3/8 | 47/64 |
| P20D4P-20 | 20 | 1.000 | 1.100 | 3/8 | 47/64 |
| P20D4P-21 | 21 | 1.050 | 1.150 | 3/8 | 47/64 |
| P20D4P-22 | 22 | 1.100 | 1.200 | 3/8 | 3/4 |
| P20D4P-23 | 23 | 1.150 | 1.250 | 3/8 | 47/64 |
| P20D4P-24 | 24 | 1.200 | 1.300 | 3/8 | 47/64 |
| P20D4P-25 | 25 | 1.250 | 1.350 | 3/8 | 47/64 |
| P20D4P-26 | 26 | 1.300 | 1.400 | 3/8 | 47/64 |
| P20D4P-28 | 28 | 1.400 | 1.500 | 3/8 | 47/64 |
| P20D4P-30 | 30 | 1.500 | 1.600 | 3/8 | 47/64 |
| P20D4P-32 | 32 | 1.600 | 1.700 | 3/8 | 47/64 |
| P20D4P-34 | 34 | 1.700 | 1.800 | 3/8 | 47/64 |
| P20D4P-35 | 35 | 1.750 | 1.850 | 3/8 | 47/64 |
| P20D4P-36 | 36 | 1.800 | 1.900 | 3/8 | 47/64 |
| P20D4P-38 | 38 | 1.900 | 2.000 | 3/8 | 47/64 |
| P20D4P-40 | 40 | 2.000 | 2.100 | 3/8 | 47/64 |
| P20D4P-41 | 41 | 2.050 | 2.150 | 3/8 | 47/64 |
| P20D4P-42 | 42 | 2.100 | 2.200 | 3/8 | 47/64 |
| P20D4P-44 | 44 | 2.200 | 2.300 | 3/8 | 47/64 |
| P20D4P-45 | 45 | 2.250 | 2.350 | 3/8 | 47/64 |
| P20D4P-46 | 46 | 2.300 | 2.400 | 3/8 | 47/64 |
| P20D4P-48 | 48 | 2.400 | 2.500 | 3/8 | 47/64 |
| P20D4P-50 | 50 | 2.500 | 2.600 | 3/8 | 3/4 |

Some molded gears may have webs.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

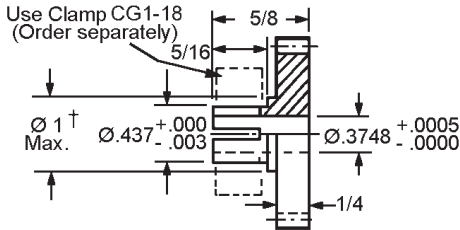
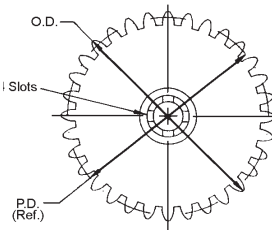
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-----------|-------|------|---------------------|--------------|----------------|
| 20 | CLAMP HUB | 5/16" | 1/4" | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| C20S22-16 | 16† | .800 | .900 |
| C20S22-20 | 20 | 1.000 | 1.100 |
| C20S22-24 | 24 | 1.200 | 1.300 |
| C20S22-32 | 32 | 1.600 | 1.700 |
| C20S22-40 | 40 | 2.000 | 2.100 |
| C20S22-48 | 48 | 2.400 | 2.500 |
| C20S22-50 | 50 | 2.500 | 2.600 |
| C20S22-55 | 55 | 2.750 | 2.850 |
| C20S22-60 | 60 | 3.000 | 3.100 |

† Teeth may runout on flange diameter.
Available on request, Other numbers of teeth, 14-1/2° Pressure Angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-----------|------|------|---------------------|--------------|----------------|
| 20 | CLAMP HUB | 3/8" | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

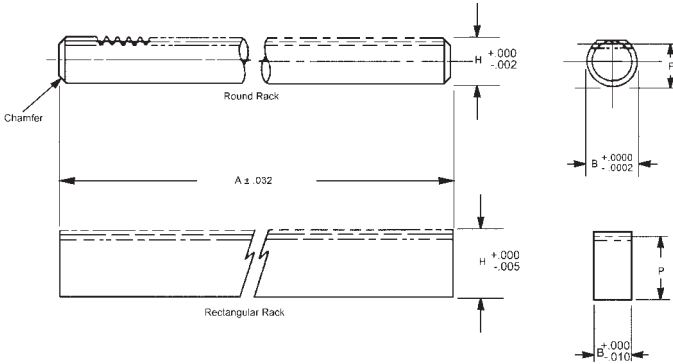


| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| C20S25-16 | 16† | .800 | .900 |
| C20S25-20 | 20 | 1.000 | 1.100 |
| C20S25-24 | 24 | 1.200 | 1.300 |
| C20S25-32 | 32 | 1.600 | 1.700 |
| C20S25-40 | 40 | 2.000 | 2.100 |
| C20S25-48 | 48 | 2.400 | 2.500 |
| C20S25-50 | 50 | 2.500 | 2.600 |
| C20S25-55 | 55 | 2.750 | 2.850 |
| C20S25-60 | 60 | 3.000 | 3.100 |

† Teeth may runout on flange diameter.
Available on request, Other numbers of teeth, 14-1/2° Pressure Angle.

GEAR RACKS

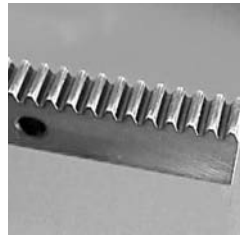
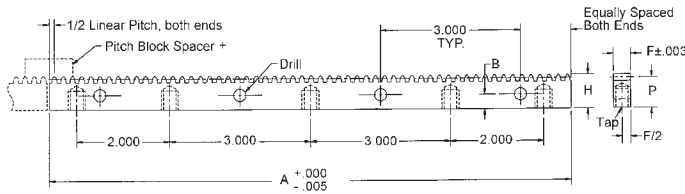
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 20 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 8 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-2 | ROUND | 20 | .4800 | .6247 | 24 | .530 | 8 |
| R2-8 | RECTANGULAR | 20 | .6750 | .365±.010 | 24 | .725 | 8 |

Available on request: 14 - 1/2° pressure angle, special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 20 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



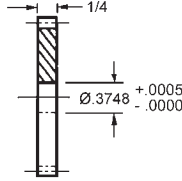
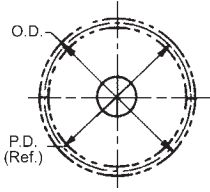
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | SPACER BLOCK | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 - .005 | F | B | DRILL | TAP |
|-----------|--------------|---------------|------------------|----------------------|-------|--------------|--------|--------|----------------|------|------|-------|--------------|
| STOCK NO. | STOCK NO. | NO. | ERROR | ERROR | | | | | | | | | |
| R1-2-G1 | R1-2-SB | 10* | .0014 | .0005 | 20 | .1570 | 11.147 | .6750 | .725 | .365 | .312 | 17/64 | #10-24 x 3/8 |

* Higher quality on request.

SPUR GEARS

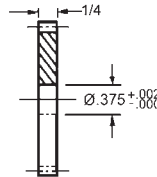
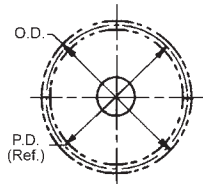
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 24 | HUBLESS | 3/8" | 1/4" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth 14 -
1/2° Pressure Angle

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| F24S6-24 | F24A6-24 | 24 | 1.0000 | 1.083 |
| F24S6-30 | F24A6-30 | 30 | 1.2500 | 1.333 |
| F24S6-32 | F24A6-32 | 32 | 1.3333 | 1.416 |
| F24S6-36 | F24A6-36 | 36 | 1.5000 | 1.583 |
| F24S6-48 | F24A6-48 | 48 | 2.0000 | 2.083 |
| F24S6-60 | F24A6-60 | 60 | 2.5000 | 2.583 |
| F24S6-64 | F24A6-64 | 64 | 2.6666 | 2.750 |
| F24S6-72 | F24A6-72 | 72 | 3.0000 | 3.083 |
| F24S6-96 | F24A6-96 | 96 | 4.0000 | 4.083 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 24 | HUBLESS | 3/8" | 1/4" | ALUMINUM RED ANODIZED | 8 | 20° |



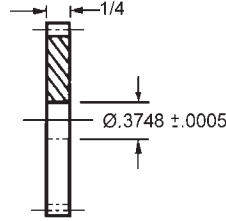
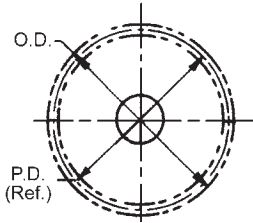
Available on request:
Other numbers of teeth
14-1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| F24A77-15 | 15 | .6250 | .708 |
| F24A77-16 | 16 | .6666 | .750 |
| F24A77-18 | 18 | .7500 | .833 |
| F24A77-20 | 20 | .8333 | .916 |
| F24A77-21 | 21 | .8750 | .958 |
| F24A77-24 | 24 | 1.0000 | 1.083 |
| F24A77-30 | 30 | 1.2500 | 1.333 |
| F24A77-36 | 36 | 1.5000 | 1.583 |
| F24A77-42 | 42 | 1.7500 | 1.833 |
| F24A77-48 | 48 | 2.0000 | 2.083 |
| F24A77-60 | 60 | 2.5000 | 2.583 |
| F24A77-72 | 72 | 3.0000 | 3.083 |
| F24A77-96 | 96 | 4.0000 | 4.083 |
| F24A77-120 | 120 | 5.0000 | 5.083 |
| F24A77-144 | 144 | 6.0000 | 6.083 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

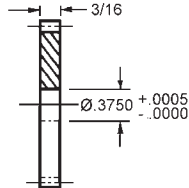
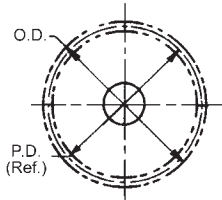
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------|--------------|----------------|
| 24 | HUBLESS | 3/8" | 1/4" | POLYURETHANE | 8 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F24U6-24 | 24 | 1.0000 | 1.083 |
| F24U6-30 | 30 | 1.2500 | 1.333 |
| F24U6-32 | 32 | 1.3333 | 1.416 |
| F24U6-36 | 36 | 1.5000 | 1.583 |
| F24U6-42 | 42 | 1.7500 | 1.833 |
| F24U6-48 | 48 | 2.0000 | 2.083 |
| F24U6-60 | 60 | 2.5000 | 2.583 |
| F24U6-64 | 64 | 2.6666 | 2.750 |
| F24U6-72 | 72 | 3.0000 | 3.083 |
| F24U6-96 | 96 | 4.0000 | 4.083 |

Available on request:
Other numbers of teeth,
14-1/2° Pressure Angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|----------|--------------|----------------|
| 24 | HUBLESS | 3/8" | 3/16" | DELTRIN | 10 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F24D5-15 | 15 | .6250 | .708 |
| F24D5-16 | 16 | .6666 | .750 |
| F24D5-17 | 17 | .7083 | .791 |
| F24D5-18 | 18 | .7500 | .833 |
| F24D5-19 | 19 | .7916 | .875 |
| F24D5-20 | 20 | .8333 | .916 |
| F24D5-21 | 21 | .8750 | .958 |
| F24D5-22 | 22 | .9166 | 1.000 |
| F24D5-23 | 23 | .9583 | 1.041 |
| F24D5-24 | 24 | 1.0000 | 1.083 |
| F24D5-25 | 25 | 1.0416 | 1.125 |
| F24D5-28 | 28 | 1.1666 | 1.250 |
| F24D5-30 | 30 | 1.2500 | 1.333 |
| F24D5-32 | 32 | 1.3333 | 1.416 |
| F24D5-33 | 33 | 1.3750 | 1.458 |
| F24D5-36 | 36 | 1.5000 | 1.583 |
| F24D5-40 | 40 | 1.6666 | 1.750 |
| F24D5-42 | 42 | 1.7500 | 1.833 |
| F24D5-45 | 45 | 1.8750 | 1.958 |
| F24D5-46 | 46 | 1.9166 | 2.000 |
| F24D5-48 | 48 | 2.0000 | 2.083 |
| F24D5-50 | 50 | 2.0833 | 2.166 |
| F24D5-52 | 52 | 2.1666 | 2.250 |
| F24D5-55 | 55 | 2.2916 | 2.375 |
| F24D5-56 | 56 | 2.3333 | 2.416 |
| F24D5-57 | 57 | 2.3750 | 2.458 |
| F24D5-60 | 60 | 2.5000 | 2.583 |
| F24D5-64 | 64 | 2.6666 | 2.750 |
| F24D5-66 | 66 | 2.7500 | 2.833 |
| F24D5-69 | 69 | 2.8750 | 2.958 |
| F24D5-72 | 72 | 3.0000 | 3.083 |
| F24D5-78 | 78 | 3.2500 | 3.333 |
| F24D5-84 | 84 | 3.5000 | 3.583 |
| F24D5-90 | 90 | 3.7500 | 3.833 |
| F24D5-93 | 93 | 3.8750 | 3.958 |

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 24 | X | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

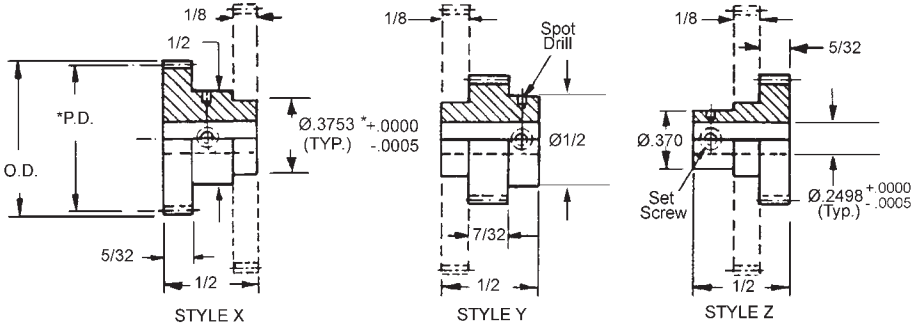
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP24S14-12 | 24 | 12 | .5000 | .583 |
| DP24S14-13 | | 13 | .5418 | .625 |
| DP24S14-15 | | 15 | .6250 | .708 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 24 | Y | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP24S16-12 | 24 | 12 | .5000 | .583 |
| DP24S16-13 | | 13 | .5418 | .625 |
| DP24S16-15 | | 15 | .6250 | .708 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 24 | Z | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP24S16-12 | 24 | 12 | .5000 | .583 |
| DP24S16-13 | | 13 | .5418 | .625 |
| DP24S16-15 | | 15 | .6250 | .708 |

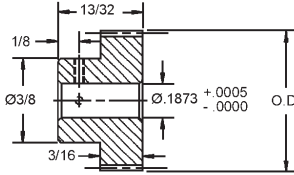
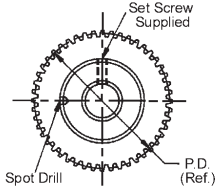


*Concentric within .0003
Order hubless gear separately.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|--|--------------|----------------|
| 24 | PIN HUB | 3/16" | 3/16" | 303 STAINLESS STEEL OR ALUMINUM ANODIZED | 10 | 20° |

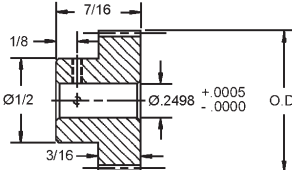
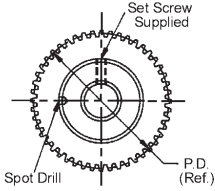


| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P24S21-15 | P24A21-15 | 15 | .6250 | .708 |
| P24S21-16 | P24A21-16 | 16 | .6666 | .750 |
| P24S21-18 | P24A21-18 | 18 | .7500 | .833 |
| P24S21-20 | P24A21-20 | 20 | .8333 | .916 |
| P24S21-22 | P24A21-22 | 22 | .9166 | 1.000 |
| P24S21-24 | P24A21-24 | 24 | 1.0000 | 1.083 |
| P24S21-30 | P24A21-30 | 30 | 1.2500 | 1.333 |
| P24S21-36 | P24A21-36 | 36 | 1.5000 | 1.583 |
| P24S21-42 | P24A21-42 | 42 | 1.7500 | 1.833 |
| P24S21-48 | P24A21-48 | 48 | 2.0000 | 2.083 |
| P24S21-54 | P24A21-54 | 54 | 2.2500 | 2.333 |
| P24S21-60 | P24A21-60 | 60 | 2.5000 | 2.583 |
| P24S21-72 | P24A21-72 | 72 | 3.0000 | 3.083 |
| P24S21-84 | P24A21-84 | 84 | 3.5000 | 3.583 |
| P24S21-96 | P24A21-96 | 96 | 4.0000 | 4.083 |

Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|--|--------------|----------------|
| 24 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL OR ALUMINUM ANODIZED | 10 | 20° |



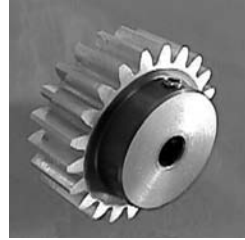
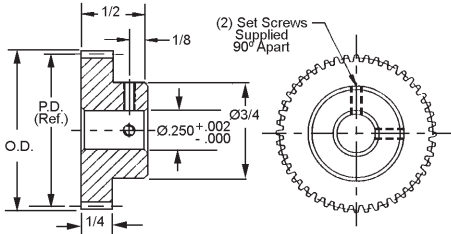
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P24S28-15 | P24A28-15 | 15 | .6250 | .708 |
| P24S28-16 | P24A28-16 | 16 | .6666 | .750 |
| P24S28-18 | P24A28-18 | 18 | .7500 | .833 |
| P24S28-20 | P24A28-20 | 20 | .8333 | .916 |
| P24S28-21 | P24A28-21 | 21 | .8750 | .958 |
| P24S28-22 | P24A28-22 | 22 | .9166 | 1.000 |
| P24S28-24 | P24A28-24 | 24 | 1.0000 | 1.083 |
| P24S28-27 | P24A28-27 | 27 | 1.1250 | 1.208 |
| P24S28-30 | P24A28-30 | 30 | 1.2500 | 1.333 |
| P24S28-33 | P24A28-33 | 33 | 1.3750 | 1.458 |
| P24S28-36 | P24A28-36 | 36 | 1.5000 | 1.583 |
| P24S28-39 | P24A28-39 | 39 | 1.6250 | 1.708 |
| P24S28-42 | P24A28-42 | 42 | 1.7500 | 1.833 |
| P24S28-45 | P24A28-45 | 45 | 1.8750 | 1.958 |
| P24S28-48 | P24A28-48 | 48 | 2.0000 | 2.083 |
| P24S28-51 | P24A28-51 | 51 | 2.1250 | 2.208 |
| P24S28-54 | P24A28-54 | 54 | 2.2500 | 2.333 |
| P24S28-57 | P24A28-57 | 57 | 2.3750 | 2.458 |
| P24S28-60 | P24A28-60 | 60 | 2.5000 | 2.583 |
| P24S28-63 | P24A28-63 | 63 | 2.6250 | 2.708 |
| P24S28-66 | P24A28-66 | 66 | 2.7500 | 2.833 |
| P24S28-69 | P24A28-69 | 69 | 2.8750 | 2.958 |
| P24S28-72 | P24A28-72 | 72 | 3.0000 | 3.083 |
| P24S28-75 | P24A28-75 | 75 | 3.1250 | 3.208 |
| P24S28-78 | P24A28-78 | 78 | 3.2500 | 3.333 |
| P24S28-81 | P24A28-81 | 81 | 3.3750 | 3.458 |
| P24S28-84 | P24A28-84 | 84 | 3.5000 | 3.583 |
| P24S28-87 | P24A28-87 | 87 | 3.6250 | 3.708 |
| P24S28-90 | P24A28-90 | 90 | 3.7500 | 3.833 |
| P24S28-93 | P24A28-93 | 93 | 3.8750 | 3.958 |
| P24S28-96 | P24A28-96 | 96 | 4.0000 | 4.083 |
| P24S28-99 | P24A28-99 | 99 | 4.1250 | 4.208 |
| P24S28-100 | P24A28-100 | 100 | 4.1666 | 4.250 |
| P24S28-105 | P24A28-105 | 105 | 4.3750 | 4.458 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

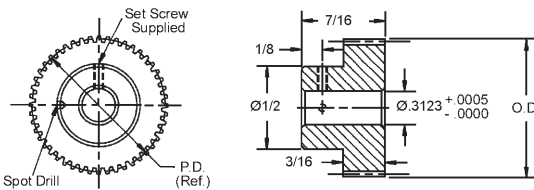
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 24 | PIN HUB | 1/4" | 1/4" | ALUMINUM RED ANODIZED | 8 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle
For 14-20 teeth
Hub diameter equals $\varnothing.44$

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P24A66-14 | 14 | .5833 | .666 |
| P24A66-15 | 15 | .6250 | .708 |
| P24A66-16 | 16 | .6666 | .750 |
| P24A66-18 | 18 | .7500 | .833 |
| P24A66-20 | 20 | .8333 | .916 |
| P24A66-21 | 21 | .8750 | .958 |
| P24A66-24 | 24 | 1.0000 | 1.083 |
| P24A66-30 | 30 | 1.2500 | 1.333 |
| P24A66-36 | 36 | 1.5000 | 1.583 |
| P24A66-42 | 42 | 1.7500 | 1.833 |
| P24A66-48 | 48 | 2.0000 | 2.083 |
| P24A66-60 | 60 | 2.5000 | 2.583 |
| P24A66-72 | 72 | 3.0000 | 3.083 |
| P24A66-96 | 96 | 4.0000 | 4.083 |
| P24A66-120 | 120 | 5.0000 | 5.083 |
| P24A66-144 | 144 | 6.0000 | 6.083 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|------------------------|--------------|----------------|
| 24 | PIN HUB | 5/16" | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

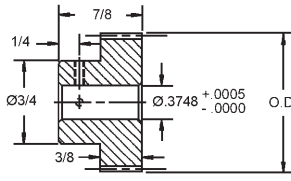
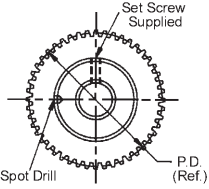


Available on request, other numbers of teeth
and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P24S32-15 | 15 | .6250 | .708 |
| P24S32-18 | 18 | .7500 | .833 |
| P24S32-21 | 21 | .8750 | .958 |
| P24S32-24 | 24 | 1.0000 | 1.083 |
| P24S32-30 | 30 | 1.2500 | 1.333 |
| P24S32-36 | 36 | 1.5000 | 1.583 |
| P24S32-48 | 48 | 2.0000 | 2.083 |
| P24S32-72 | 72 | 3.0000 | 3.083 |
| P24S32-84 | 84 | 3.5000 | 3.583 |
| P24S32-96 | 96 | 4.0000 | 4.083 |

SPUR GEARS

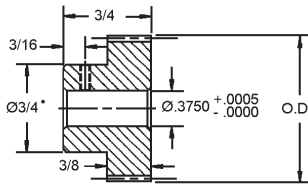
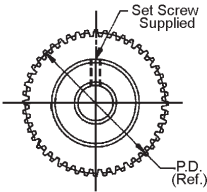
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---------------------|--------------|----------------|
| 24 | PIN HUB | 3/8" | 3/8" | 303 STAINLESS STEEL | 10 | 20° |



Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P24S35-30 | 30 | 1.2500 | 1.333 |
| P24S35-36 | 36 | 1.5000 | 1.583 |
| P24S35-42 | 42 | 1.7500 | 1.833 |
| P24S35-48 | 48 | 2.0000 | 2.083 |
| P24S35-60 | 60 | 2.5000 | 2.583 |
| P24S35-72 | 72 | 3.0000 | 3.083 |
| P24S35-84 | 84 | 3.5000 | 3.583 |
| P24S35-96 | 96 | 4.0000 | 4.083 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 24 | PIN HUB | 3/8" | 3/8" | 303 STAINLESS STEEL OR BRONZE ALLOY 464 | 10 | 20° |



- For 16 - 20 teeth hub diameter equals .56
- X In Part Number indicates that part may be supplied as two piece construction (some dimensions may vary.)

Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

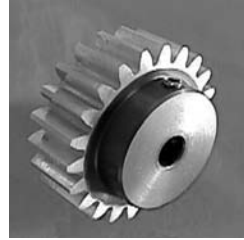
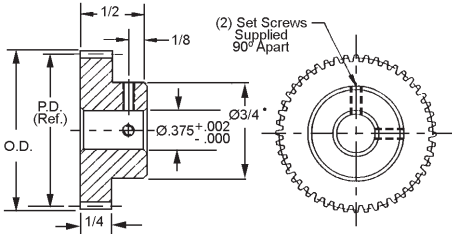
| STOCK NO. | STOCK NO. | NO. OF TEETH | BERG QUALITY #10 | |
|-------------|-------------|--------------|------------------|--------------|
| | | | PITCH DIA. | OUTSIDE DIA. |
| P24S34-16 | P24B34-16 | 16• | .6666 | .750 |
| P24S34-18 | P24B34-18 | 18• | .7500 | .833 |
| P24S34-20 | P24B34-20 | 20• | .8333 | .916 |
| P24S34-24 | P24B34-24 | 24 | 1.0000 | 1.083 |
| P24S34-28 | P24B34-28 | 28 | 1.1666 | 1.250 |
| P24S34-30 | P24B34-30 | 30 | 1.2500 | 1.333 |
| P24S34-36 | P24B34-36 | 36 | 1.5000 | 1.583 |
| P24S34-40 | P24B34-40 | 40 | 1.6666 | 1.750 |
| P24S34X-48 | P24B34X-48 | 48 | 2.0000 | 2.083 |
| P24S34X-56 | P24B34X-56 | 56 | 2.3333 | 2.416 |
| P24S34X-60 | P24B34X-60 | 60 | 2.5000 | 2.583 |
| P24S34X-72 | P24B34X-72 | 72 | 3.0000 | 3.083 |
| P24S34X-80 | P24B34X-80 | 80 | 3.3333 | 3.416 |
| P24S34X-96 | P24B34X-96 | 96 | 4.0000 | 4.083 |
| P24S34X-112 | P24B34X-112 | 112 | 4.6666 | 4.750 |
| P24S34X-120 | P24B34X-120 | 120 | 5.0000 | 5.083 |

For Couplings See Section G.

For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 24 | PIN HUB | 3/8" | 1/4" | ALUMINUM RED ANODIZED | 8 | 20° |



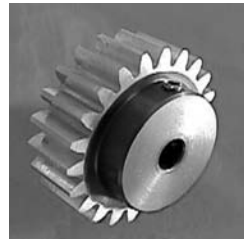
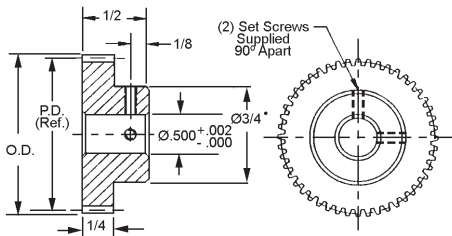
- For 17 - 20 teeth hub diameter is .597

Available on request:

Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P24A67-16 | 16• | .6666 | .750 |
| P24A67-18 | 18• | .7500 | .833 |
| P24A67-20 | 20• | .8333 | .916 |
| P24A67-21 | 21 | .8750 | .958 |
| P24A67-24 | 24 | 1.0000 | 1.083 |
| P24A67-30 | 30 | 1.2500 | 1.333 |
| P24A67-36 | 36 | 1.5000 | 1.583 |
| P24A67-42 | 42 | 1.7500 | 1.833 |
| P24A67-48 | 48 | 2.0000 | 2.083 |
| P24A67-60 | 60 | 2.5000 | 2.583 |
| P24A67-72 | 72 | 3.0000 | 3.083 |
| P24A67-96 | 96 | 4.0000 | 4.083 |
| P24A67-120 | 120 | 5.0000 | 5.083 |
| P24A67-144 | 144 | 6.0000 | 6.083 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------------------|--------------|----------------|
| 24 | PIN HUB | 1/2" | 1/4" | ALUMINUM RED ANODIZED | 8 | 20° |



- For 19 - 20 teeth hub diameter is .68

Available on request:

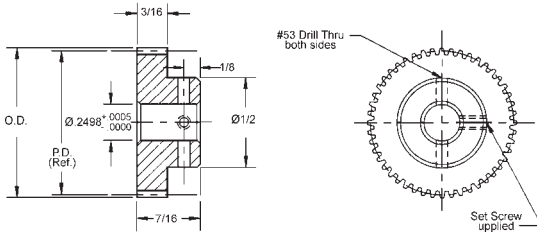
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P24A68-20 | 20• | .8333 | .916 |
| P24A68-21 | 21 | .8750 | .958 |
| P24A68-24 | 24 | 1.0000 | 1.083 |
| P24A68-30 | 30 | 1.2500 | 1.333 |
| P24A68-36 | 36 | 1.5000 | 1.583 |
| P24A68-42 | 42 | 1.7500 | 1.833 |
| P24A68-48 | 48 | 2.0000 | 2.083 |
| P24A68-60 | 60 | 2.5000 | 2.583 |
| P24A68-72 | 72 | 3.0000 | 3.083 |
| P24A68-96 | 96 | 4.0000 | 4.083 |
| P24A68-120 | 120 | 5.0000 | 5.083 |
| P24A68-144 | 144 | 6.0000 | 6.083 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

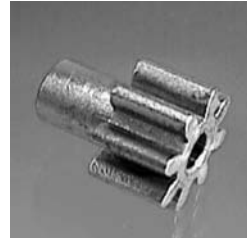
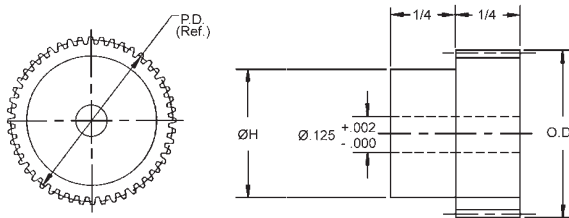
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---------------------------------------|--------------|----------------|
| 24 | PIN HUB | 1/4" | 3/16" | 17-4PH STAINLESS STEEL RC 32-38 | 10 | 20° |



- For 13 - 14 teeth hub diameter equals .43
- Available on request, other numbers of teeth, quality 12 and 14 - 1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P24PH28-13 | 13* | .5416 | .625 |
| P24PH28-14 | 14* | .5833 | .666 |
| P24PH28-15 | 15 | .6250 | .708 |
| P24PH28-16 | 16 | .6666 | .750 |
| P24PH28-18 | 18 | .7500 | .833 |
| P24PH28-20 | 20 | .8333 | .916 |
| P24PH28-21 | 21 | .8750 | .958 |
| P24PH28-24 | 24 | 1.0000 | 1.083 |
| P24PH28-26 | 26 | 1.0833 | 1.166 |
| P24PH28-27 | 27 | 1.1250 | 1.208 |
| P24PH28-28 | 28 | 1.1666 | 1.250 |
| P24PH28-30 | 30 | 1.2500 | 1.333 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 24 | PIN HUB | 1/8" | 1/4" | COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM OR BRASS ALLOY 360 | 5 | 20° |

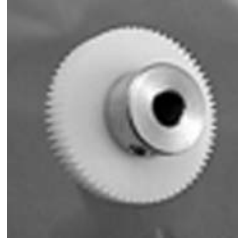
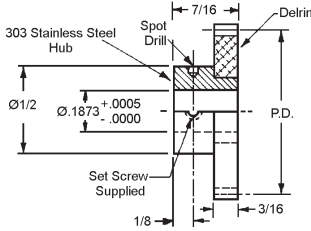


| COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | H |
|--|---------------------------------------|-----------------|---------------|-----------------|------|
| PX24S-8 | PX24B-8 | 8 | .333 | .416 | .208 |
| PX24S-9 | PX24B-9 | 9 | .375 | .458 | .250 |
| PX24S-10 | PX24B-10 | 10 | .417 | .500 | .291 |
| PX24S-12 | PX24B-12 | 12 | .500 | .583 | .375 |
| PX24S-16 | PX24B-16 | 16 | .666 | .750 | .542 |
| PX24S-18 | PX24B-18 | 18 | .750 | .833 | .625 |
| - | PX24B-22 | 22 | .916 | 1.000 | .792 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|--|--------------|----------------|
| 24 | PIN HUB | 3/16" | 3/16" | DELTRIN WITH STAINLESS STEEL HUB | 10 | 20° |



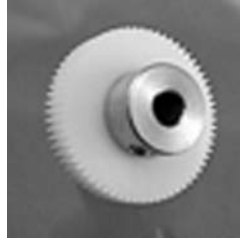
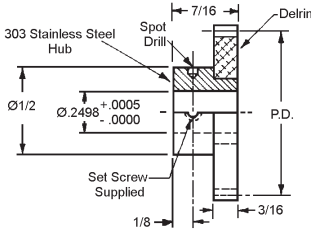
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P24D21X-15 | 15 | .6250 | .708 |
| P24D21X-16 | 16 | .6666 | .750 |
| P24D21X-17 | 17 | .7083 | .791 |
| P24D21X-18 | 18 | .7500 | .833 |
| P24D21X-19 | 19 | .7916 | .875 |
| P24D21X-20 | 20 | .8333 | .916 |
| P24D21X-21 | 21 | .8750 | .958 |
| P24D21X-22 | 22 | .9166 | 1.000 |
| P24D21X-23 | 23 | .9583 | 1.041 |
| P24D21X-24 | 24 | 1.0000 | 1.083 |
| P24D21X-25 | 25 | 1.0416 | 1.125 |
| P24D21X-28 | 28 | 1.1666 | 1.250 |
| P24D21X-30 | 30 | 1.2500 | 1.333 |
| P24D21X-32 | 32 | 1.3333 | 1.416 |
| P24D21X-33 | 33 | 1.3750 | 1.458 |
| P24D21X-36 | 36 | 1.5000 | 1.583 |
| P24D21X-40 | 40 | 1.6666 | 1.750 |
| P24D21X-42 | 42 | 1.7500 | 1.833 |
| P24D21X-45 | 45 | 1.8750 | 1.958 |
| P24D21X-46 | 46 | 1.9166 | 2.000 |
| P24D21X-48 | 48 | 2.0000 | 2.083 |
| P24D21X-50 | 50 | 2.0833 | 2.166 |
| P24D21X-52 | 52 | 2.1666 | 2.250 |
| P24D21X-55 | 55 | 2.2916 | 2.375 |
| P24D21X-56 | 56 | 2.3333 | 2.416 |
| P24D21X-57 | 57 | 2.3750 | 2.458 |
| P24D21X-60 | 60 | 2.5000 | 2.583 |
| P24D21X-64 | 64 | 2.6666 | 2.750 |
| P24D21X-66 | 66 | 2.7500 | 2.833 |
| P24D21X-69 | 69 | 2.8750 | 2.958 |
| P24D21X-72 | 72 | 3.0000 | 3.083 |
| P24D21X-78 | 78 | 3.2500 | 3.333 |
| P24D21X-84 | 84 | 3.5000 | 3.583 |
| P24D21X-90 | 90 | 3.7500 | 3.833 |
| P24D21X-93 | 93 | 3.8750 | 3.958 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---------------------------------------|--------------|----------------|
| 24 | PIN HUB | 1/4" | 3/16" | DELRIN WITH STAINLESS STEEL HUB | 10 | 20° |



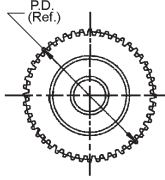
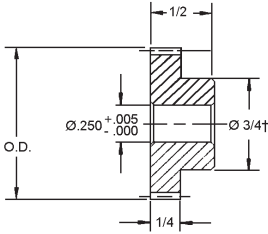
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P24D28X-15 | 15 | .6250 | .708 |
| P24D28X-16 | 16 | .6666 | .750 |
| P24D28X-17 | 17 | .7083 | .791 |
| P24D28X-18 | 18 | .7500 | .833 |
| P24D28X-19 | 19 | .7916 | .875 |
| P24D28X-20 | 20 | .8333 | .916 |
| P24D28X-21 | 21 | .8750 | .958 |
| P24D28X-22 | 22 | .9166 | 1.000 |
| P24D28X-23 | 23 | .9583 | 1.041 |
| P24D28X-24 | 24 | 1.0000 | 1.083 |
| P24D28X-25 | 25 | 1.0416 | 1.125 |
| P24D28X-28 | 28 | 1.1666 | 1.250 |
| P24D28X-30 | 30 | 1.2500 | 1.333 |
| P24D28X-32 | 32 | 1.3333 | 1.416 |
| P24D28X-33 | 33 | 1.3750 | 1.458 |
| P24D28X-36 | 36 | 1.5000 | 1.583 |
| P24D28X-40 | 40 | 1.6666 | 1.750 |
| P24D28X-42 | 42 | 1.7500 | 1.833 |
| P24D28X-45 | 45 | 1.8750 | 1.958 |
| P24D28X-46 | 46 | 1.9166 | 2.000 |
| P24D28X-48 | 48 | 2.0000 | 2.083 |
| P24D28X-50 | 50 | 2.0833 | 2.166 |
| P24D28X-52 | 52 | 2.1666 | 2.250 |
| P24D28X-55 | 55 | 2.2916 | 2.375 |
| P24D28X-56 | 56 | 2.3333 | 2.416 |
| P24D28X-57 | 57 | 2.3750 | 2.458 |
| P24D28X-60 | 60 | 2.5000 | 2.583 |
| P24D28X-64 | 64 | 2.6666 | 2.750 |
| P24D28X-66 | 66 | 2.7500 | 2.833 |
| P24D28X-69 | 69 | 2.8750 | 2.958 |
| P24D28X-72 | 72 | 3.0000 | 3.083 |
| P24D28X-78 | 78 | 3.2500 | 3.333 |
| P24D28X-84 | 84 | 3.5000 | 3.583 |
| P24D28X-90 | 90 | 3.7500 | 3.833 |
| P24D28X-93 | 93 | 3.8750 | 3.958 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

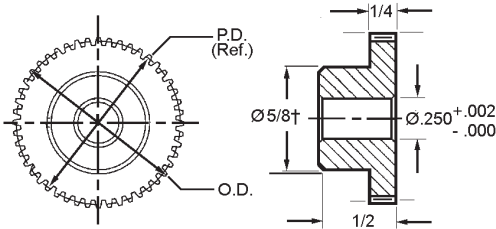
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 24 | PIN HUB | 1/4" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P24U66-15 | 15† | .6250 | .708 |
| P24U66-16 | 16† | .6666 | .750 |
| P24U66-18 | 18† | .7500 | .833 |
| P24U66-24 | 24 | 1.0000 | 1.083 |
| P24U66-30 | 30 | 1.2500 | 1.333 |
| P24U66-36 | 36 | 1.5000 | 1.583 |
| P24U66-42 | 42 | 1.7500 | 1.833 |
| P24U66-48 | 48 | 2.0000 | 2.083 |
| P24U66-60 | 60 | 2.5000 | 2.583 |
| P24U66-72 | 72 | 3.0000 | 3.083 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|---------------|--------------|-------------|
| 24 | PIN HUB | 1/4" | 1/4" | MOLDED ACETAL | 5 | 20° |

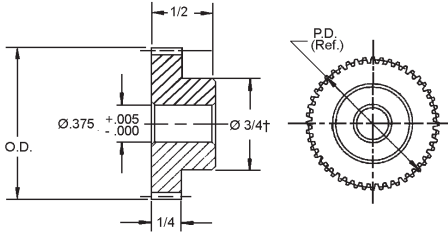


† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P24D4M-15 | 15† | .6250 | .71 |
| P24D4M-16 | 16† | .6666 | .75 |
| P24D4M-18 | 18 | .7500 | .83 |
| P24D4M-20 | 20 | .8333 | .92 |
| P24D4M-21 | 21 | .8750 | .96 |
| P24D4M-24 | 24 | 1.0000 | 1.08 |
| P24D4M-30 | 30 | 1.2500 | 1.33 |
| P24D4M-36 | 36 | 1.5000 | 1.58 |
| P24D4M-42 | 42 | 1.7500 | 1.83 |
| P24D4M-48 | 48 | 2.0000 | 2.08 |
| P24D4M-54 | 54 | 2.2500 | 2.33 |
| P24D4M-60 | 60 | 2.5000 | 2.58 |

SPUR GEARS

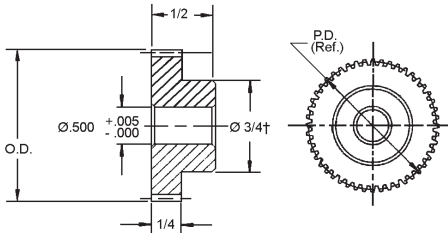
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 24 | PIN HUB | 3/8" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



† Teeth runout on hub.
Available on request: other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P24U67-15 | 15† | .6250 | .708 |
| P24U67-16 | 16† | .6666 | .750 |
| P24U67-18 | 18† | .7500 | .833 |
| P24U67-24 | 24 | 1.0000 | 1.083 |
| P24U67-30 | 30 | 1.2500 | 1.333 |
| P24U67-36 | 36 | 1.5000 | 1.583 |
| P24U67-42 | 42 | 1.7500 | 1.833 |
| P24U67-48 | 48 | 2.0000 | 2.083 |
| P24U67-60 | 60 | 2.5000 | 2.583 |
| P24U67-72 | 72 | 3.0000 | 3.083 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 24 | PIN HUB | 1/2" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



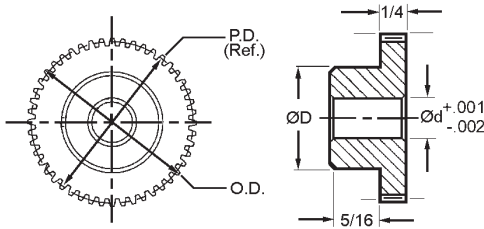
† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P24U68-16 | 16† | .6666 | .750 |
| P24U68-18 | 18† | .7500 | .833 |
| P24U68-24 | 24 | 1.0000 | 1.083 |
| P24U68-30 | 30 | 1.2500 | 1.333 |
| P24U68-36 | 36 | 1.5000 | 1.583 |
| P24U68-42 | 42 | 1.7500 | 1.833 |
| P24U68-48 | 48 | 2.0000 | 2.083 |
| P24U68-60 | 60 | 2.5000 | 2.583 |
| P24U68-72 | 72 | 3.0000 | 3.083 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|----------------|------|---------------|--------------|-------------|
| 24 | PIN HUB | 3/16" TO 5/16" | 1/4" | MOLDED DELRIN | 5 | 20° |



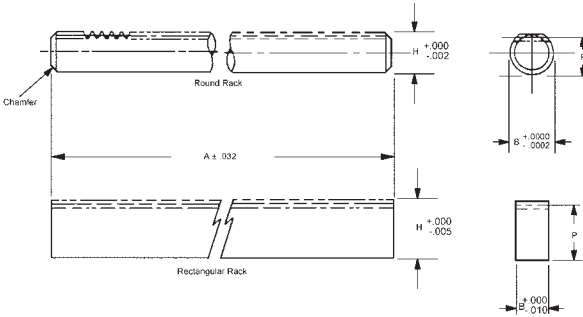
| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | $\varnothing d$ | $\varnothing D$ |
|-----------|--------------|------------|--------------|-----------------|-----------------|
| P24D4P-12 | 12 | .500 | .583 | 3/16 | 3/8 |
| P24D4P-14 | 14 | .583 | .667 | 3/16 | 7/16 |
| P24D4P-15 | 15 | .625 | .709 | 3/16 | 31/64 |
| P24D4P-16 | 16 | .667 | .750 | 3/16 | 31/64 |
| P24D4P-17 | 17 | .709 | .791 | 3/16 | 35/64 |
| P24D4P-18 | 18 | .750 | .833 | 3/16 | 35/64 |
| P24D4P-19 | 19 | .791 | .875 | 3/16 | 35/64 |
| P24D4P-20 | 20 | .833 | .917 | 3/16 | 35/64 |
| P24D4P-21 | 21 | .875 | .959 | 3/16 | 35/64 |
| P24D4P-22 | 22 | .917 | 1.000 | 3/16 | 35/64 |
| P24D4P-23 | 23 | .959 | 1.041 | 3/16 | 35/64 |
| P24D4P-24 | 24 | 1.000 | 1.083 | 1/4 | 5/8 |
| P24D4P-25 | 25 | 1.041 | 1.125 | 1/4 | 39/64 |
| P24D4P-26 | 26 | 1.083 | 1.167 | 1/4 | 5/8 |
| P24D4P-27 | 27 | 1.125 | 1.208 | 1/4 | 5/8 |
| P24D4P-28 | 28 | 1.167 | 1.250 | 1/4 | 5/8 |
| P24D4P-30 | 30 | 1.250 | 1.333 | 1/4 | 5/8 |
| P24D4P-32 | 32 | 1.333 | 1.416 | 1/4 | 39/64 |
| P24D4P-33 | 33 | 1.375 | 1.458 | 1/4 | 39/64 |
| P24D4P-34 | 34 | 1.416 | 1.500 | 1/4 | 39/64 |
| P24D4P-36 | 36 | 1.500 | 1.583 | 1/4 | 5/8 |
| P24D4P-39 | 39 | 1.625 | 1.708 | 5/16 | 43/64 |
| P24D4P-40 | 40 | 1.666 | 1.750 | 5/16 | 43/64 |
| P24D4P-42 | 42 | 1.750 | 1.833 | 5/16 | 43/64 |
| P24D4P-44 | 44 | 1.833 | 1.917 | 5/16 | 43/64 |
| P24D4P-45 | 45 | 1.875 | 1.958 | 5/16 | 43/64 |
| P24D4P-48 | 48 | 2.000 | 2.083 | 5/16 | 43/64 |
| P24D4P-50 | 50 | 2.083 | 2.166 | 5/16 | 43/64 |
| P24D4P-52 | 52 | 2.166 | 2.250 | 5/16 | 43/64 |
| P24D4P-54 | 54 | 2.250 | 2.333 | 5/16 | 43/64 |
| P24D4P-56 | 56 | 2.333 | 2.416 | 5/16 | 43/64 |
| P24D4P-60 | 60 | 2.500 | 2.583 | 5/16 | 43/64 |
| P24D4P-72 | 72 | 3.000 | 3.083 | 5/16 | 43/64 |

Some molded gears may have webs.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

GEAR RACKS

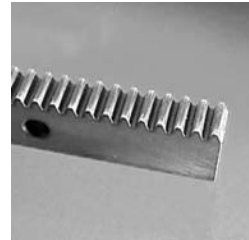
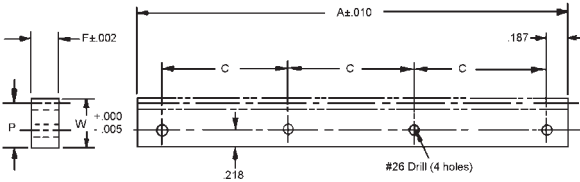
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 24 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-3 | ROUND | 24 | .4383 | .4997 | 18 | .480 | 10 |
| R2-9 | RECTANGULAR | 24 | .4383 | .230±.005 | 18 | .480 | 10 |

Available on request:
14 - 1/2° pressure angle,
special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 24 | RECTANGULAR | 416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

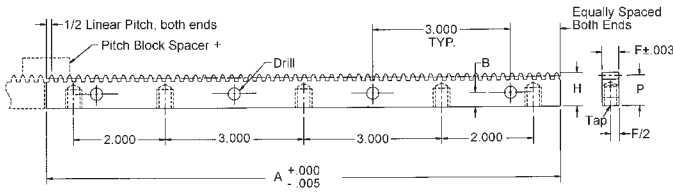


| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|---------------|----------|----------|------|------|-------|
| R4-5 | STAINLESS ST. | 10 | .4383 | .480 | .230 | 3.208 |
| R4-6 | ALUMINUM | | | | | |

Available on request: special,
modified and custom racks.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 24 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



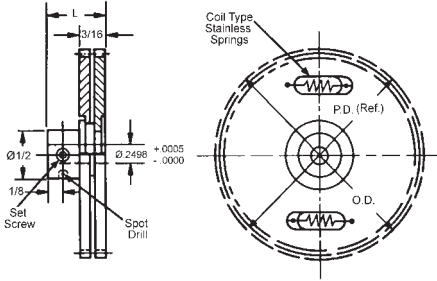
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | | SPACER | | | | | | | | | | | |
|-----------|-----------|---------------|------------------|----------------------|-------|--------------|--------|--------|----------------|------|------|-------|-------------|
| STOCK NO. | STOCK NO. | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 - .005 | F | B | DRILL | TAP |
| R1-3-G1 | R1-3-SB | 10* | .0014 | .0005 | 24 | .1309 | 11.120 | .4333 | .475 | .230 | .218 | #26 | #6-32 x 1/4 |

* Higher quality on request.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|--|--------------|----------------|
| 24 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

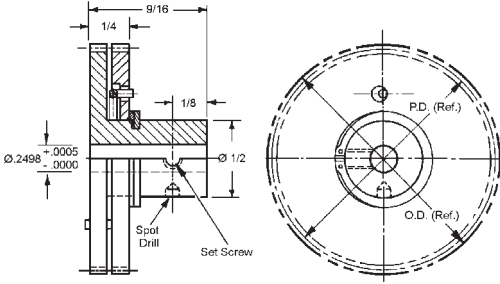
| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | L | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|-------|--------------|------------|--------------|
| AP24MS-24 | AP24QS-24 | | 24 | 1.0000 | 1.083 |
| AP24MS-25 | AP24QS-25 | | 25 | 1.0417 | 1.125 |
| AP24MS-26 | AP24QS-26 | | 26 | 1.0833 | 1.166 |
| AP24MS-28 | AP24QS-28 | | 28 | 1.1667 | 1.250 |
| AP24M-30 | AP24Q-30 | 15/32 | 30 | 1.2500 | 1.333 |
| AP24M-35 | AP24Q-35 | | 35 | 1.4583 | 1.541 |
| AP24M-36 | AP24Q-36 | | 36 | 1.5000 | 1.583 |
| AP24M-40 | AP24Q-40 | | 40 | 1.6667 | 1.750 |
| AP24M-42 | AP24Q-42 | | 42 | 1.7500 | 1.833 |
| AP24M-45 | AP24Q-45 | | 45 | 1.8750 | 1.958 |
| AP24M-48 | AP24Q-48 | | 48 | 2.0000 | 2.083 |
| AP24M-50 | AP24Q-50 | | 50 | 2.0833 | 2.166 |
| AP24M-54 | AP24Q-54 | | 54 | 2.2500 | 2.333 |
| AP24M-55 | AP24Q-55 | | 55 | 2.2917 | 2.375 |
| AP24M-60 | AP24Q-60 | | 60 | 2.5000 | 2.583 |
| AP24M-65 | AP24Q-65 | | 65 | 2.7083 | 2.791 |
| AP24M-66 | AP24Q-66 | | 66 | 2.7500 | 2.833 |

Available on request:
Other numbers of teeth,
AGMA Quality 12 and 14 (some dimensions may vary),
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 24 | PIN HUB | 1/4" | 1/4" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

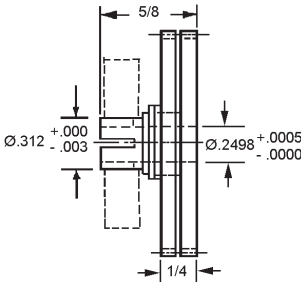


Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|-------|--------------|------------|--------------|
| AP24BS-18 | AP24DS-18 | 24 | 18 | .7500 | .833 |
| AP24BS-21 | AP24DS-21 | | 21 | .8750 | .958 |
| AP24BS-24 | AP24DS-24 | | 24 | 1.0000 | 1.083 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|------|--|--------------|----------------|
| 24 | CLAMP STYLE | 1/4" | 1/4" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



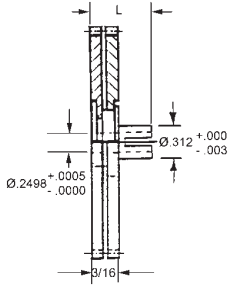
Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|-------|--------------|------------|--------------|
| AC24BS-18 | AC24DS-18 | 24 | 18 | .7500 | .833 |
| AC24BS-21 | AC24DS-21 | | 21 | .8750 | .958 |
| AC24BS-24 | AC24DS-24 | | 24 | 1.0000 | 1.083 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|----------------|------|-------|--|--------------|----------------|
| 24 | CLAMP STYLE | 1/4" | 3/16" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

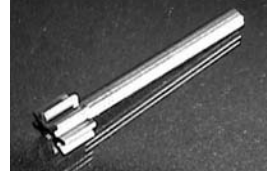
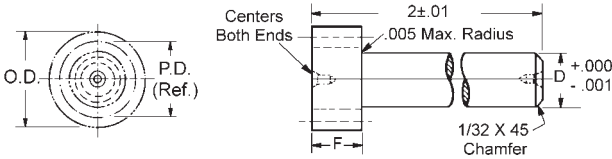
| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | L | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|---|-------|-----------------|---------------|-----------------|
| AC24MS-24 | AC24QS-24 | 15/32 | 24 | 1.0000 | 1.083 |
| AC24MS-25 | AC24QS-25 | | 25 | 1.0417 | 1.125 |
| AC24MS-26 | AC24QS-26 | | 26 | 1.0833 | 1.166 |
| AC24MS-28 | AC24QS-28 | | 28 | 1.1667 | 1.250 |
| AC24M-30 | AC24Q-30 | 27/64 | 30 | 1.2500 | 1.333 |
| AC24M-35 | AC24Q-35 | | 35 | 1.4583 | 1.541 |
| AC24M-36 | AC24Q-36 | | 36 | 1.5000 | 1.583 |
| AC24M-40 | AC24Q-40 | | 40 | 1.6667 | 1.750 |
| AC24M-42 | AC24Q-42 | | 42 | 1.7500 | 1.833 |
| AC24M-45 | AC24Q-45 | | 45 | 1.8750 | 1.958 |
| AC24M-48 | AC24Q-48 | | 48 | 2.0000 | 2.083 |
| AC24M-50 | AC24Q-50 | | 50 | 2.0833 | 2.166 |
| AC24M-54 | AC24Q-54 | | 54 | 2.2500 | 2.333 |
| AC24M-55 | AC24Q-55 | | 55 | 2.2917 | 2.375 |
| AC24M-60 | AC24Q-60 | | 60 | 2.5000 | 2.583 |
| AC24M-65 | AC24Q-65 | | 65 | 2.7083 | 2.791 |
| AC24M-66 | AC24Q-66 | | 66 | 2.7500 | 2.833 |

Available on request:
Other numbers of teeth,
AGMA Quality 12 and 14 (some dimensions may vary),
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

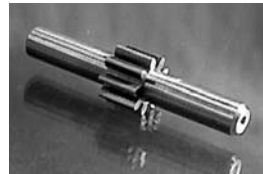
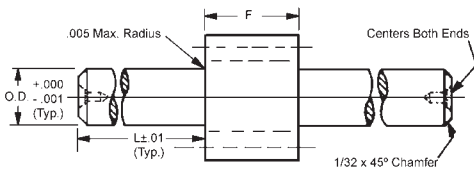
PINION SHAFTS

| PITCH | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-----------------------------|--------------|----------------|
| 24 | BRASS AND COLD ROLLED STEEL | 5 | 20° |



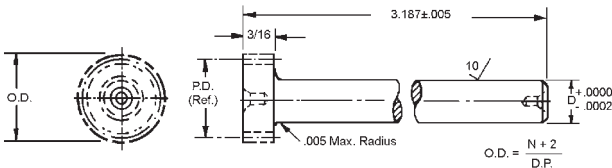
| COLD ROLLED STEEL 12L14 OR 12L15 W/SELENIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NUMBER OF TEETH | PITCH DIAMETER | OUTSIDE DIAMETER | D | F |
|---|---------------------------|-----------------|----------------|------------------|------|------|
| PSX24S-8 | PSX24B-8 | 8 | .3333 | .416 | .187 | 5/16 |
| PSX24S-9 | PSX24B-9 | 9 | .3750 | .458 | .250 | |
| PSX24S-10 | PSX24B-10 | 10 | .4167 | .500 | .250 | |
| PSX24S-12 | PSX24B-12 | 12 | .5000 | .583 | .375 | |

| PITCH | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-----------------------------|--------------|----------------|
| 24 | BRASS AND COLD ROLLED STEEL | 5 | 20° |



| COLD ROLLED STEEL 12L14 OR 12L15 W/SELENIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NUMBER OF TEETH | PITCH DIAMETER | OUTSIDE DIAMETER | D | F | L |
|---|---------------------------|-----------------|----------------|------------------|------|------|-----|
| PSW24S-8 | PSW24B-8 | 8 | .3333 | .416 | .187 | 5/16 | 3/4 |
| PSW24S-9 | PSW24B-9 | 9 | .3750 | .458 | .250 | | |
| PSW24S-10 | PSW24B-10 | 10 | .4167 | .500 | .250 | | |
| PSW24S-12 | PSW24B-12 | 12 | .5000 | .583 | .375 | | |

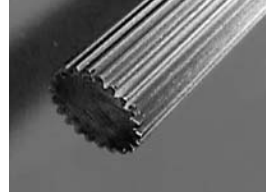
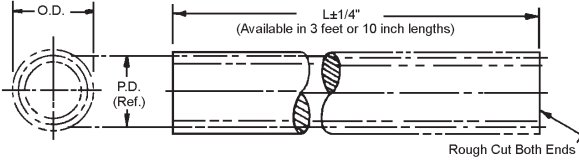
| PITCH | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--------------|----------------|
| 24 | 303 STAINLESS STEEL | 5 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS24S4-10H | 24 | 10 | .4166 | .2497 |
| PS24S4-12H | | 12 | .5000 | .2497 |

SPUR GEAR STOCK

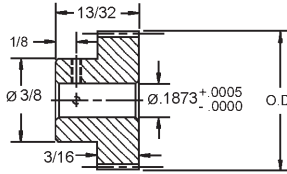
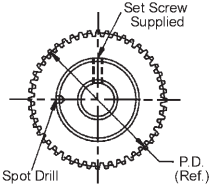
| PITCH | TYPE | MATERIAL | PRESSURE ANGLE |
|-------|-------------|--------------------------------|----------------|
| 24 | PINION WIRE | BRASS AND COLD ROLLED STEEL | 20° |



| BRASS ALLOY 360 | | COLD ROLLED STEEL C12L14 or C12L15 WITH SELENIUM | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|-----------------------------|--|-----------------------------|--------------------|---------------|-----------------|
| 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | | | |
| PW24B-8X | PW24B-8A | PW24S-8X | PW24S-8A | 8 | .3333 | .416 |
| PW24B-9X | PW24B-9A | PW24S-9X | PW24S-9A | 9 | .3750 | .458 |
| PW24B-10X | PW24B-10A | PW24S-10X | PW24S-10A | 10 | .4166 | .500 |
| - | - | PW24S-11 | PW24S-11A | 11 | .4583 | .541 |
| PW24B-12X | PW24B-12A | PW24S-12X | PW24S-12A | 12 | .5000 | .583 |
| PW24B-14 | PW24B-14A | PW24S-14 | PW24S-14A | 14 | .5833 | .666 |
| PW24B-15 | PW24B-15A | PW24S-15 | PW24S-15A | 15 | .6250 | .708 |
| PW24B-16 | PW24B-16A | PW24S-16 | PW24S-16A | 16 | .6666 | .750 |
| PW24B-18 | PW24B-18A | PW24S-18 | PW24S-18A | 18 | .7500 | .833 |
| PW24B-22 | PW24B-22A | - | - | 22 | .9166 | 1.000 |

SPUR GEARS

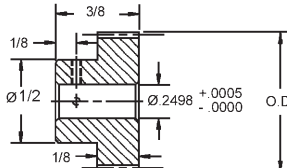
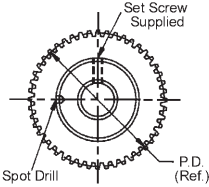
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---|--------------|----------------|
| 1/10 | PIN HUB | 3/16" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



Available on request, other numbers of teeth,
AGMA Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | BERG QUALITY #10 | | |
|---|---|------------------|---------------|-----------------|
| | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
| P31S21-20 | P31A21-20 | 20 | .6366 | .700 |
| P31S21-25 | P31A21-25 | 25 | .7957 | .859 |
| P31S21-30 | P31A21-30 | 30 | .9549 | 1.018 |
| P31S21-35 | P31A21-35 | 35 | 1.1140 | 1.177 |
| P31S21-40 | P31A21-40 | 40 | 1.2732 | 1.336 |
| P31S21-45 | P31A21-45 | 45 | 1.4323 | 1.496 |
| P31S21-50 | P31A21-50 | 50 | 1.5915 | 1.655 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 1/10 | PIN HUB | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



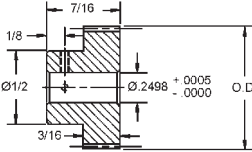
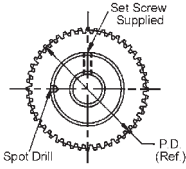
Available on request, other numbers of teeth,
AGMA Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | BERG QUALITY #10 | | |
|---|---|------------------|---------------|-----------------|
| | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
| P31S26-20 | P31A26-20 | 20 | .6366 | .700 |
| P31S26-25 | P31A26-25 | 25 | .7957 | .859 |
| P31S26-30 | P31A26-30 | 30 | .9549 | 1.018 |
| P31S26-35 | P31A26-35 | 35 | 1.1140 | 1.177 |
| P31S26-40 | P31A26-40 | 40 | 1.2732 | 1.336 |
| P31S26-45 | P31A26-45 | 45 | 1.4323 | 1.496 |
| P31S26-50 | P31A26-50 | 50 | 1.5915 | 1.655 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

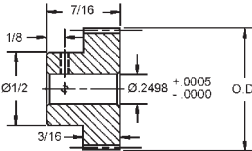
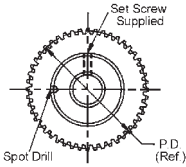
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 1/10 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



Available on request, other numbers of teeth, 14-1/2° Pressure Angle.

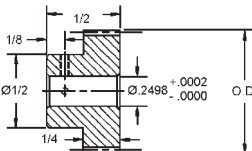
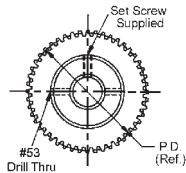
| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | BERG QUALITY #10 | | |
|-------------------------------|-------------------------------------|------------------|------------|--------------|
| | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
| P31S28-20 | P31A28-20 | 20 | .6366 | .700 |
| P31S28-25 | P31A28-25 | 25 | .7957 | .859 |
| P31S28-30 | P31A28-30 | 30 | .9549 | 1.018 |
| P31S28-35 | P31A28-35 | 35 | 1.1140 | 1.177 |
| P31S28-40 | P31A28-40 | 40 | 1.2732 | 1.336 |
| P31S28-45 | P31A28-45 | 45 | 1.4323 | 1.496 |
| P31S28-50 | P31A28-50 | 50 | 1.5915 | 1.655 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 1/10 | PIN HUB | 1/4" | 3/16" | 17-4PH STAINLESS STEEL HARDENED RC 28-35 | 10 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P31PH28-20 | 20 | .6366 | .700 |
| P31PH28-25 | 25 | .7957 | .859 |
| P31PH28-30 | 30 | .9549 | 1.019 |
| P31PH28-40 | 40 | 1.2732 | 1.337 |

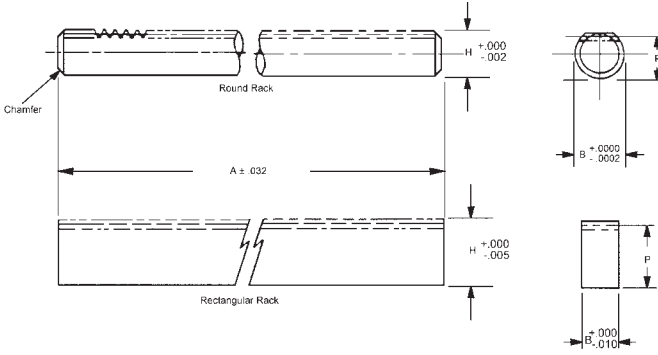
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 1/10 | PIN HUB | 1/4" | 1/4" | 17-4PH STAINLESS STEEL HARDENED RC 28-35 | 13 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|----------------|--------------|------------|--------------|
| P31PH41-20-Q13 | 20 | .6366 | .700 |
| P31PH41-40-Q13 | 40 | 1.2732 | 1.337 |

GEAR RACKS

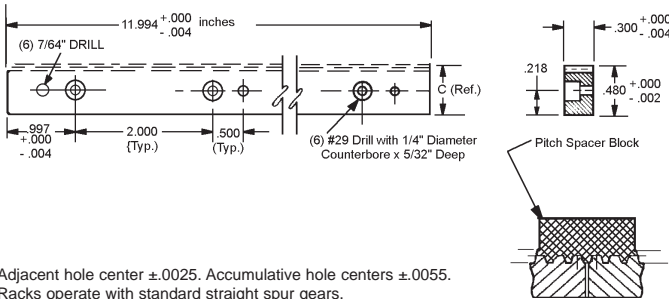
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 1/10 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-4 | ROUND | 1/10 | .3082 | .3747 | 18 | .340 | 10 |
| R2-10 | RECTANGULAR | 1/10 | .4482 | .230±.005 | 18 | .480 | 10 |

Available on request:
14 - 1/2° pressure angle,
special, modified and custom racks.

| PITCH | STYLES | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|------------------------------------|------------------------------------|--------------|----------------|
| 1/10 | Order With or Without Spacer Block | 416 SERIES STAINLESS STEEL RC26-36 | 10 | 20° |



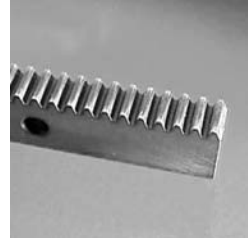
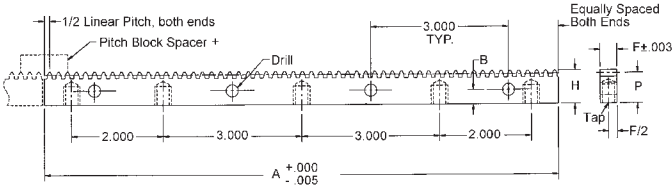
Adjacent hole center ±.0025. Accumulative hole centers ±.0055.
Racks operate with standard straight spur gears.
Custom racks available on request.

| WITHOUT SPACER BLOCK STOCK NO. | SPACER BLOCK STOCK NO. | AGMA QUALITY NO. | TOTAL COMPOSITE ERROR | TOTAL TOOTH ERROR | PITCH PLANE PARALLELISM TO BASE SURFACE | LINEAR PITCH | C REF |
|--------------------------------|------------------------|------------------|-----------------------|-------------------|---|--------------|-------|
| R8-2-G1 | R8-2-G1-SB | Q10* | .0014 | .0005 | .0015 | 1/10 | .4480 |

* Higher quality on request.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 1/10 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



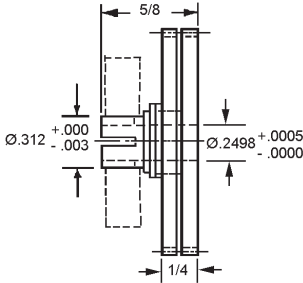
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | SPACER BLOCK | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 / -.005 | F | B | DRILL | TAP |
|---------|--------------|---------------|------------------|----------------------|-------|--------------|--------|--------|-----------------|------|------|-------|-------------|
| R1-4-G1 | R1-4-SB | 10* | .0014 | .0005 | 1/10 | .1000 | 10.994 | .4432 | .475 | .230 | .218 | #26 | #6-32 x 1/4 |
| R3-2G1 | R3-2-SB | 10* | .0014 | .0005 | 1/10 | .1000 | 10.994 | .4482 | .480 | .230 | .218 | #26 | #6-32 x 1/4 |

* Higher quality on request.

ANTI-BACKLASH GEARS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 1/10 | CLAMP STYLE | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



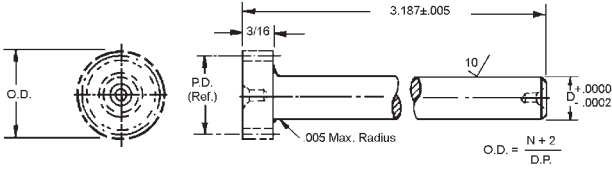
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-------|-----------------|---------------|-----------------|
| AC31BS-25 | AC31DS-25 | 1/10 | 25 | .7958 | .859 |
| AC31BS-30 | AC31DS-30 | | 30 | .9549 | 1.018 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

PINION SHAFTS

| PITCH | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--------------|----------------|
| 1/10 | 303 STAINLESS STEEL | 10 | 20° |

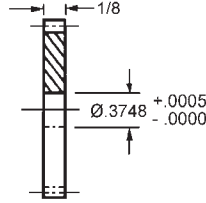
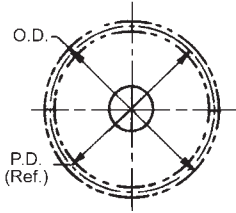


| STOCK NO | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS31S4-10H | 1/10 | 10 | .3183 | .2497 |

Other numbers of teeth available on request.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|---|--------------|-------------|
| 32 | HUBLESS | 3/8" | 1/8" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



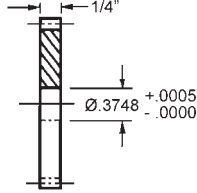
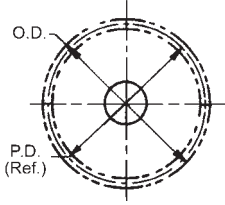
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| F32S3-20 | F32A3-20 | 20 | .6250 | .687 |
| F32S3-24 | F32A3-24 | 24 | .7500 | .812 |
| F32S3-26 | F32A3-26 | 26 | .8125 | .875 |
| F32S3-28 | F32A3-28 | 28 | .8750 | .937 |
| F32S3-30 | F32A3-30 | 30 | .9375 | 1.000 |
| F32S3-32 | F32A3-32 | 32 | 1.0000 | 1.062 |
| F32S3-36 | F32A3-36 | 36 | 1.1250 | 1.187 |
| F32S3-40 | F32A3-40 | 40 | 1.2500 | 1.312 |
| F32S3-42 | F32A3-42 | 42 | 1.3125 | 1.375 |
| F32S3-44 | F32A3-44 | 44 | 1.3750 | 1.437 |
| F32S3-48 | F32A3-48 | 48 | 1.5000 | 1.562 |
| F32S3-60 | F32A3-60 | 60 | 1.8750 | 1.937 |
| F32S3-64 | F32A3-64 | 64 | 2.0000 | 2.062 |
| F32S3-72 | F32A3-72 | 72 | 2.2500 | 2.312 |
| F32S3-75 | F32A3-75 | 75 | 2.3437 | 2.406 |
| F32S3-76 | F32A3-76 | 76 | 2.3750 | 2.437 |
| F32S3-80 | F32A3-80 | 80 | 2.5000 | 2.562 |
| F32S3-81 | F32A3-81 | 81 | 2.5312 | 2.593 |
| F32S3-86 | F32A3-86 | 86 | 2.6875 | 2.750 |
| F32S3-88 | F32A3-88 | 88 | 2.7500 | 2.812 |
| F32S3-90 | F32A3-90 | 90 | 2.8125 | 2.875 |
| F32S3-92 | F32A3-92 | 92 | 2.8750 | 2.937 |
| F32S3-95 | F32A3-95 | 95 | 2.9687 | 3.031 |
| F32S3-96 | F32A3-96 | 96 | 3.0000 | 3.062 |
| F32S3-100 | F32A3-100 | 100 | 3.1250 | 3.187 |
| F32S3-105 | F32A3-105 | 105 | 3.2812 | 3.343 |
| F32S3-108 | F32A3-108 | 108 | 3.3750 | 3.437 |
| F32S3-110 | F32A3-110 | 110 | 3.4375 | 3.500 |
| F32S3-112 | F32A3-112 | 112 | 3.5000 | 3.562 |
| F32S3-115 | F32A3-115 | 115 | 3.5937 | 3.656 |
| F32S3-116 | F32A3-116 | 116 | 3.6250 | 3.687 |
| F32S3-120 | F32A3-120 | 120 | 3.7500 | 3.812 |
| F32S3-124 | F32A3-124 | 124 | 3.8750 | 3.937 |
| F32S3-126 | F32A3-126 | 126 | 3.9375 | 4.000 |
| F32S3-128 | F32A3-128 | 128 | 4.0000 | 4.062 |
| F32S3-132 | F32A3-132 | 132 | 4.1250 | 4.187 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

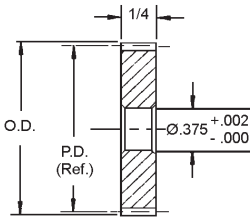
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|---|--------------|-------------|
| 32 | HUBLESS | 3/8" | 1/4" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| F32S6-32 | F32A6-32 | 32 | 1.0000 | 1.062 |
| F32S6-36 | F32A6-36 | 36 | 1.1250 | 1.187 |
| F32S6-40 | F32A6-40 | 40 | 1.2500 | 1.312 |
| F32S6-48 | F32A6-48 | 48 | 1.5000 | 1.562 |
| F32S6-60 | F32A6-60 | 60 | 1.8750 | 1.937 |
| F32S6-64 | F32A6-64 | 64 | 2.0000 | 2.062 |
| F32S6-72 | F32A6-72 | 72 | 2.2500 | 2.312 |
| F32S6-75 | F32A6-75 | 75 | 2.3437 | 2.406 |
| F32S6-80 | F32A6-80 | 80 | 2.5000 | 2.562 |
| F32S6-96 | F32A6-96 | 96 | 3.0000 | 3.062 |
| F32S6-120 | F32A6-120 | 120 | 3.7500 | 3.812 |
| F32S6-128 | F32A6-128 | 128 | 4.0000 | 4.062 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--------------------------|--------------|-------------|
| 32 | HUBLESS | 3/8" | 1/4" | ALUMINUM RED ANODIZED | 8 | 20° |

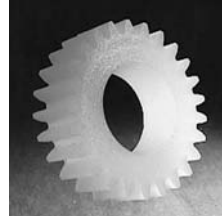
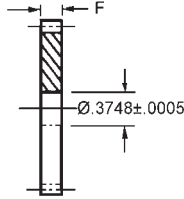
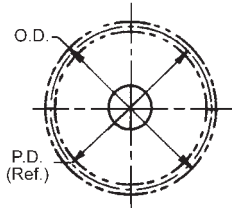


Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| F32A77-20 | 20 | .6250 | .687 |
| F32A77-24 | 24 | .7500 | .812 |
| F32A77-30 | 30 | .9375 | 1.000 |
| F32A77-32 | 32 | 1.0000 | 1.062 |
| F32A77-36 | 36 | 1.1250 | 1.187 |
| F32A77-40 | 40 | 1.2500 | 1.312 |
| F32A77-48 | 48 | 1.5000 | 1.562 |
| F32A77-56 | 56 | 1.7500 | 1.812 |
| F32A77-60 | 60 | 1.8750 | 1.937 |
| F32A77-64 | 64 | 2.0000 | 2.062 |
| F32A77-80 | 80 | 2.5000 | 2.562 |
| F32A77-96 | 96 | 3.0000 | 3.062 |
| F32A77-112 | 112 | 3.5000 | 3.562 |
| F32A77-128 | 128 | 4.0000 | 4.062 |
| F32A77-160 | 160 | 5.0000 | 5.062 |
| F32A77-192 | 192 | 6.0000 | 6.062 |

SPUR GEARS

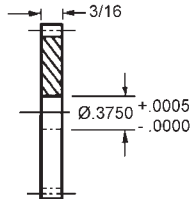
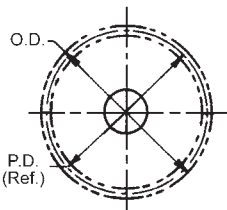
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--------------|--------------|-------------|
| 32 | HUBLESS | 3/8" | 1/8" | POLYURETHANE | 8 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F32U3-32 | 32 | 1.0000 | 1.062 |
| F32U3-36 | 36 | 1.1250 | 1.187 |
| F32U3-40 | 40 | 1.2500 | 1.312 |
| F32U3-48 | 48 | 1.5000 | 1.562 |
| F32U3-60 | 60 | 1.8750 | 1.937 |
| F32U3-64 | 64 | 2.0000 | 2.062 |
| F32U3-72 | 72 | 2.2500 | 2.312 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|----------|--------------|-------------|
| 32 | HUBLESS | 3/8" | 3/16" | DELTRIN | 10 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

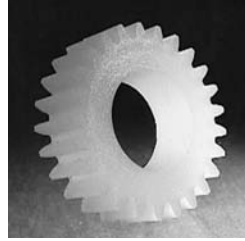
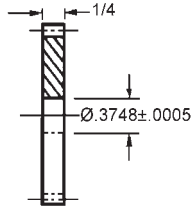
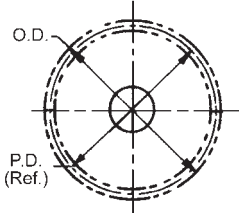


| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F32D5-20 | 20 | .6250 | .687 |
| F32D5-21 | 21 | .6562 | .718 |
| F32D5-22 | 22 | .6875 | .750 |
| F32D5-23 | 23 | .7187 | .781 |
| F32D5-24 | 24 | .7500 | .812 |
| F32D5-25 | 25 | .7812 | .843 |
| F32D5-26 | 26 | .8125 | .875 |
| F32D5-28 | 28 | .8750 | .937 |
| F32D5-30 | 30 | .9375 | 1.000 |
| F32D5-32 | 32 | 1.0000 | 1.062 |
| F32D5-36 | 36 | 1.1250 | 1.187 |
| F32D5-40 | 40 | 1.2500 | 1.312 |
| F32D5-42 | 42 | 1.3125 | 1.375 |
| F32D5-44 | 44 | 1.3750 | 1.437 |
| F32D5-46 | 46 | 1.4375 | 1.500 |
| F32D5-48 | 48 | 1.5000 | 1.562 |
| F32D5-50 | 50 | 1.5625 | 1.625 |
| F32D5-52 | 52 | 1.6250 | 1.687 |
| F32D5-56 | 56 | 1.7500 | 1.812 |
| F32D5-60 | 60 | 1.8750 | 1.937 |
| F32D5-63 | 63 | 1.9687 | 2.031 |
| F32D5-64 | 64 | 2.0000 | 2.062 |
| F32D5-66 | 66 | 2.0625 | 2.125 |
| F32D5-69 | 69 | 2.1562 | 2.218 |
| F32D5-72 | 72 | 2.2500 | 2.312 |
| F32D5-75 | 75 | 2.3437 | 2.406 |
| F32D5-80 | 80 | 2.5000 | 2.562 |
| F32D5-84 | 84 | 2.6250 | 2.687 |
| F32D5-88 | 88 | 2.7500 | 2.812 |
| F32D5-92 | 92 | 2.8750 | 2.937 |
| F32D5-96 | 96 | 3.0000 | 3.062 |
| F32D5-104 | 104 | 3.2500 | 3.312 |
| F32D5-108 | 108 | 3.3750 | 3.437 |
| F32D5-112 | 112 | 3.5000 | 3.562 |
| F32D5-124 | 124 | 3.8750 | 3.937 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--------------|--------------|-------------|
| 32 | HUBLESS | 3/8" | 1/4" | POLYURETHANE | 8 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F32U6-32 | 32 | 1.00 | 1.062 |
| F32U6-36 | 36 | 1.13 | 1.187 |
| F32U6-40 | 40 | 1.25 | 1.312 |
| F32U6-48 | 48 | 1.50 | 1.562 |
| F32U6-60 | 60 | 1.88 | 1.937 |
| F32U6-64 | 64 | 2.00 | 2.062 |
| F32U6-72 | 72 | 2.25 | 2.312 |
| F32U6-75 | 75 | 2.34 | 2.406 |
| F32U6-80 | 80 | 2.50 | 2.562 |
| F32U6-96 | 96 | 3.00 | 3.062 |
| F32U6-112 | 112 | 3.50 | 3.562 |
| F32U6-120 | 120 | 3.75 | 3.812 |
| F32U6-128 | 128 | 4.00 | 4.062 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 32 | X | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

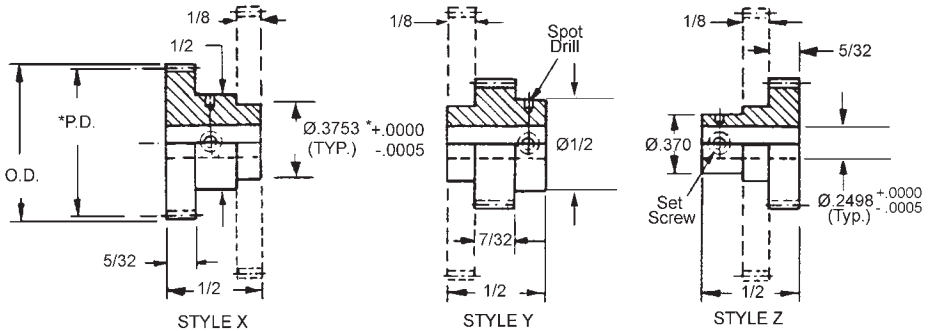
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP32S14-15 | 32 | 15 | .4688 | .531 |
| DP32S14-16 | | 16 | .5000 | .563 |
| DP32S14-18 | | 18 | .5625 | .625 |
| DP32S14-19 | | 19 | .5983 | .656 |
| DP32S14-20 | | 20 | .6250 | .688 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 32 | Y | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP32S16-15 | 32 | 15 | .4688 | .531 |
| DP32S16-16 | | 16 | .5000 | .563 |
| DP32S16-18 | | 18 | .5625 | .625 |
| DP32S16-19 | | 19 | .5983 | .656 |
| DP32S16-20 | | 20 | .6250 | .688 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 32 | Z | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

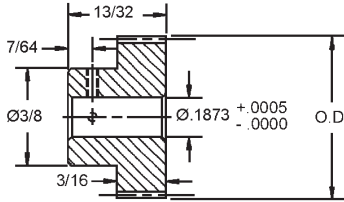
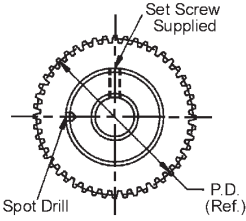
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP32S18-15 | 32 | 15 | .4688 | .531 |
| DP32S18-16 | | 16 | .5000 | .563 |
| DP32S18-18 | | 18 | .5625 | .625 |
| DP32S18-19 | | 19 | .5983 | .656 |
| DP32S18-20 | | 20 | .6250 | .688 |



*Concentric within .0003
Order hubless gear separately.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---|--------------|----------------|
| 32 | PIN HUB | 3/16" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



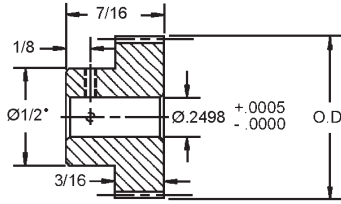
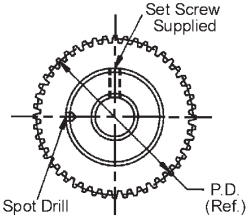
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|--|--|-----------------|---------------|-----------------|
| P32S21-15 | P32A21-15 | 15 | .4687 | .531 |
| P32S21-16 | P32A21-16 | 16 | .5000 | .562 |
| P32S21-17 | P32A21-17 | 17 | .5312 | .593 |
| P32S21-18 | P32A21-18 | 18 | .5625 | .625 |
| P32S21-20 | P32A21-20 | 20 | .6250 | .687 |
| P32S21-22 | P32A21-22 | 22 | .6875 | .750 |
| P32S21-24 | P32A21-24 | 24 | .7500 | .812 |
| P32S21-26 | P32A21-26 | 26 | .8125 | .875 |
| P32S21-28 | P32A21-28 | 28 | .8750 | .937 |
| P32S21-30 | P32A21-30 | 30 | .9375 | 1.000 |
| P32S21-32 | P32A21-32 | 32 | 1.0000 | 1.062 |
| P32S21-36 | P32A21-36 | 36 | 1.1250 | 1.187 |
| P32S21-40 | P32A21-40 | 40 | 1.2500 | 1.312 |
| P32S21-48 | P32A21-48 | 48 | 1.5000 | 1.562 |
| P32S21-52 | P32A21-52 | 52 | 1.6250 | 1.687 |
| P32S21-56 | P32A21-56 | 56 | 1.7500 | 1.812 |
| P32S21-60 | P32A21-60 | 60 | 1.8750 | 1.937 |
| P32S21-64 | P32A21-64 | 64 | 2.0000 | 2.062 |
| P32S21-68 | P32A21-68 | 68 | 2.1250 | 2.187 |
| P32S21-72 | P32A21-72 | 72 | 2.2500 | 2.312 |
| P32S21-80 | P32A21-80 | 80 | 2.5000 | 2.562 |
| P32S21-84 | P32A21-84 | 84 | 2.6250 | 2.687 |
| P32S21-88 | P32A21-88 | 88 | 2.7500 | 2.812 |
| P32S21-92 | P32A21-92 | 92 | 2.8750 | 2.937 |
| P32S21-96 | P32A21-96 | 96 | 3.0000 | 3.062 |
| P32S21-100 | P32A21-100 | 100 | 3.1250 | 3.187 |
| P32S21-104 | P32A21-104 | 104 | 3.2500 | 3.312 |
| P32S21-108 | P32A21-108 | 108 | 3.3750 | 3.437 |
| P32S21-112 | P32A21-112 | 112 | 3.5000 | 3.562 |
| P32S21-116 | P32A21-116 | 116 | 3.6250 | 3.687 |
| P32S21-120 | P32A21-120 | 120 | 3.7500 | 3.812 |
| P32S21-128 | P32A21-128 | 128 | 4.0000 | 4.062 |
| P32S21-130 | P32A21-130 | 130 | 4.0625 | 4.125 |
| P32S21-135 | P32A21-135 | 135 | 4.2187 | 4.281 |
| P32S21-140 | P32A21-140 | 140 | 4.3750 | 4.437 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 32 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



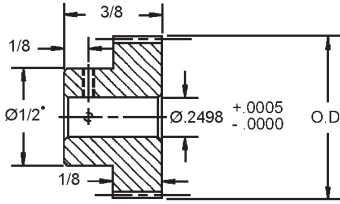
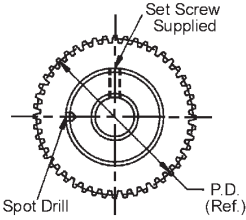
- For tooth counts 17-18 new hub diameter is .44. Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P32S28-18 | P32A28-18 | 18• | .5625 | .625 |
| P32S28-20 | P32A28-20 | 20• | .6250 | .687 |
| P32S28-28 | P32A28-28 | 28 | .8750 | .937 |
| P32S28-30 | P32A28-30 | 30 | .9375 | 1.000 |
| P32S28-32 | P32A28-32 | 32 | 1.0000 | 1.062 |
| P32S28-36 | P32A28-36 | 36 | 1.1250 | 1.187 |
| P32S28-40 | P32A28-40 | 40 | 1.2500 | 1.312 |
| P32S28-48 | P32A28-48 | 48 | 1.5000 | 1.562 |
| P32S28-52 | P32A28-52 | 52 | 1.6250 | 1.687 |
| P32S28-56 | P32A28-56 | 56 | 1.7500 | 1.812 |
| P32S28-60 | P32A28-60 | 60 | 1.8750 | 1.937 |
| P32S28-64 | P32A28-64 | 64 | 2.0000 | 2.062 |
| P32S28-72 | P32A28-72 | 72 | 2.2500 | 2.312 |
| P32S28-80 | P32A28-80 | 80 | 2.5000 | 2.562 |
| P32S28-88 | P32A28-88 | 88 | 2.7500 | 2.812 |
| P32S28-92 | P32A28-92 | 92 | 2.8750 | 2.937 |
| P32S28-96 | P32A28-96 | 96 | 3.0000 | 3.062 |
| P32S28-100 | P32A28-100 | 100 | 3.1250 | 3.187 |
| P32S28-112 | P32A28-112 | 112 | 3.5000 | 3.562 |
| P32S28-120 | P32A28-120 | 120 | 3.7500 | 3.812 |
| P32S28-128 | P32A28-128 | 128 | 4.0000 | 4.062 |
| P32S28-132 | P32A28-132 | 132 | 4.1250 | 4.187 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 32 | PIN HUB | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



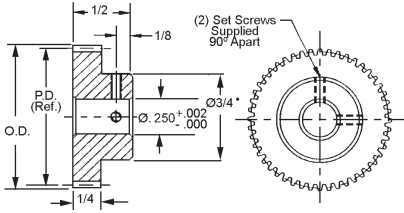
- For 17 - 18 teeth hub diameter equals .45. Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P32S26-18 | P32A26-18 | 18* | .5625 | .625 |
| P32S26-20 | P32A26-20 | 20 | .6250 | .687 |
| P32S26-22 | P32A26-22 | 22 | .6875 | .750 |
| P32S26-24 | P32A26-24 | 24 | .7500 | .812 |
| P32S26-25 | P32A26-25 | 25 | .7812 | .843 |
| P32S26-26 | P32A26-26 | 26 | .8125 | .875 |
| P32S26-28 | P32A26-28 | 28 | .8750 | .937 |
| P32S26-30 | P32A26-30 | 30 | .9375 | 1.000 |
| P32S26-32 | P32A26-32 | 32 | 1.0000 | 1.062 |
| P32S26-36 | P32A26-36 | 36 | 1.1250 | 1.187 |
| P32S26-40 | P32A26-40 | 40 | 1.2500 | 1.312 |
| P32S26-42 | P32A26-42 | 42 | 1.3125 | 1.375 |
| P32S26-45 | P32A26-45 | 45 | 1.4062 | 1.468 |
| P32S26-48 | P32A26-48 | 48 | 1.5000 | 1.562 |
| P32S26-50 | P32A26-50 | 50 | 1.5625 | 1.625 |
| P32S26-54 | P32A26-54 | 54 | 1.6875 | 1.750 |
| P32S26-56 | P32A26-56 | 56 | 1.7500 | 1.812 |
| P32S26-60 | P32A26-60 | 60 | 1.8750 | 1.937 |
| P32S26-64 | P32A26-64 | 64 | 2.0000 | 2.062 |
| P32S26-70 | P32A26-70 | 70 | 2.1875 | 2.250 |
| P32S26-72 | P32A26-72 | 72 | 2.2500 | 2.312 |
| P32S26-75 | P32A26-75 | 75 | 2.3437 | 2.406 |
| P32S26-76 | P32A26-76 | 76 | 2.3750 | 2.437 |
| P32S26-80 | P32A26-80 | 80 | 2.5000 | 2.562 |
| P32S26-88 | P32A26-88 | 88 | 2.7500 | 2.812 |
| P32S26-90 | P32A26-90 | 90 | 2.8125 | 2.875 |
| P32S26-96 | P32A26-96 | 96 | 3.0000 | 3.062 |
| P32S26-100 | P32A26-100 | 100 | 3.1250 | 3.187 |
| P32S26-110 | P32A26-110 | 110 | 3.4375 | 3.500 |
| P32S26-120 | P32A26-120 | 120 | 3.7500 | 3.812 |
| P32S26-124 | P32A26-124 | 124 | 3.8750 | 3.937 |
| P32S26-128 | P32A26-128 | 128 | 4.0000 | 4.062 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

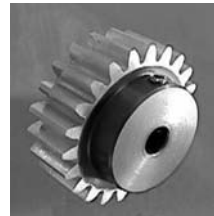
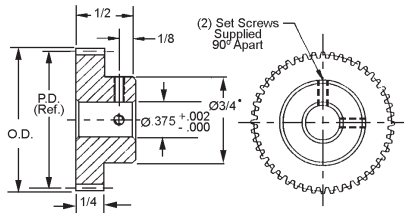
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|-------------------|--------------|----------------|
| 32 | PIN HUB | 1/4" | 1/4" | ALUMINUM ANODIZED | 8 | 20° |



- For 17 - 24 teeth hub diameter equals .45
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P32A66-18 | 18* | .5625 | .625 |
| P32A66-20 | 20* | .6250 | .687 |
| P32A66-24 | 24* | .7500 | .812 |
| P32A66-30 | 30 | .9375 | 1.000 |
| P32A66-32 | 32 | 1.0000 | 1.062 |
| P32A66-36 | 36 | 1.1250 | 1.187 |
| P32A66-40 | 40 | 1.2500 | 1.312 |
| P32A66-48 | 48 | 1.5000 | 1.562 |
| P32A66-56 | 56 | 1.7500 | 1.812 |
| P32A66-60 | 60 | 1.8750 | 1.937 |
| P32A66-64 | 64 | 2.0000 | 2.062 |
| P32A66-80 | 80 | 2.5000 | 2.562 |
| P32A66-96 | 96 | 3.0000 | 3.062 |
| P32A66-112 | 112 | 3.5000 | 3.562 |
| P32A66-128 | 128 | 4.0000 | 4.062 |
| P32A66-160 | 160 | 5.0000 | 5.062 |
| P32A66-192 | 192 | 6.0000 | 6.062 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|-------------------|--------------|----------------|
| 32 | PIN HUB | 3/8" | 1/4" | ALUMINUM ANODIZED | 8 | 20° |

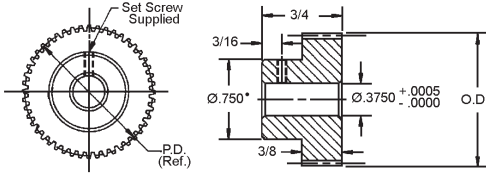


- For 21 - 24 teeth hub diameter equals .57
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P32A67-24 | 24* | .7500 | .812 |
| P32A67-30 | 30 | .9375 | 1.000 |
| P32A67-32 | 32 | 1.0000 | 1.062 |
| P32A67-36 | 36 | 1.1250 | 1.187 |
| P32A67-40 | 40 | 1.2500 | 1.312 |
| P32A67-48 | 48 | 1.5000 | 1.562 |
| P32A67-56 | 56 | 1.7500 | 1.812 |
| P32A67-60 | 60 | 1.8750 | 1.937 |
| P32A67-64 | 64 | 2.0000 | 2.062 |
| P32A67-80 | 80 | 2.5000 | 2.562 |
| P32A67-96 | 96 | 3.0000 | 3.062 |
| P32A67-112 | 112 | 3.5000 | 3.562 |
| P32A67-128 | 128 | 4.0000 | 4.062 |
| P32A67-160 | 160 | 5.0000 | 5.062 |
| P32A67-192 | 192 | 6.0000 | 6.062 |

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 32 | PIN HUB | 3/8" | 3/8" | 303 STAINLESS STEEL OR BRONZE ALLOY 464 | 10 | 20° |



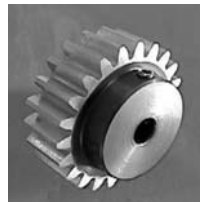
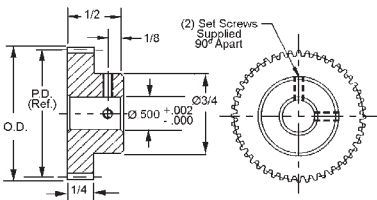
- For 21 - 24 teeth hub diameter equals .57

X In part number indicates part may be supplied as a two piece construction (some dimensions may vary.)

Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| STOCK NO. | 303 STAINLESS STEEL | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|---------------------|--------------|------------|--------------|
| | BRONZE ALLOY 464 | | | |
| P32S34-24 | P32B34-24 | 24 | .7500 | .812 |
| P32S34-28 | P32B34-28 | 28 | .8750 | .937 |
| P32S34-30 | P32B34-30 | 30 | .9375 | 1.000 |
| P32S34-32 | P32B34-32 | 32 | 1.0000 | 1.062 |
| P32S34-36 | P32B34-36 | 36 | 1.1250 | 1.187 |
| P32S34-40 | P32B34-40 | 40 | 1.2500 | 1.312 |
| P32S34-48 | P32B34-48 | 48 | 1.5000 | 1.562 |
| P32S34-56 | P32B34-56 | 56 | 1.7500 | 1.812 |
| P32S34-60 | P32B34-60 | 60 | 1.8750 | 1.937 |
| P32S34X-64 | P32B34X-64 | 64 | 2.0000 | 2.062 |
| P32S34X-72 | P32B34X-72 | 72 | 2.2500 | 2.312 |
| P32S34X-80 | P32B34X-80 | 80 | 2.5000 | 2.562 |
| P32S34X-96 | P32B34X-96 | 96 | 3.0000 | 3.062 |
| P32S34X-112 | P32B34X-112 | 112 | 3.5000 | 3.562 |
| P32S34X-128 | P32B34X-128 | 128 | 4.0000 | 4.062 |
| P32S34X-160 | P32B34X-160 | 160 | 5.0000 | 5.062 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|----------------------|--------------|----------------|
| 32 | PIN HUB | 1/2" | 1/4" | ALUMINUM ANODIZED | 8 | 20° |

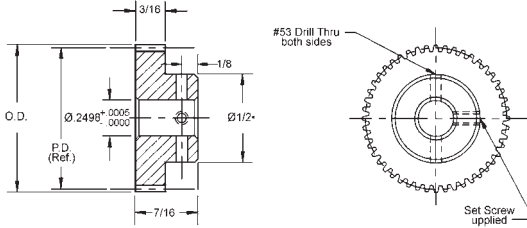


Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P32A68-30 | 30 | .9375 | 1.000 |
| P32A68-32 | 32 | 1.0000 | 1.062 |
| P32A68-36 | 36 | 1.1250 | 1.187 |
| P32A68-40 | 40 | 1.2500 | 1.312 |
| P32A68-48 | 48 | 1.5000 | 1.562 |
| P32A68-56 | 56 | 1.7500 | 1.812 |
| P32A68-60 | 60 | 1.8750 | 1.937 |
| P32A68-64 | 64 | 2.0000 | 2.062 |
| P32A68-80 | 80 | 2.5000 | 2.562 |
| P32A68-96 | 96 | 3.0000 | 3.062 |
| P32A68-112 | 112 | 3.5000 | 3.562 |
| P32A68-128 | 128 | 4.0000 | 4.062 |
| P32A68-160 | 160 | 5.0000 | 5.062 |
| P32A68-192 | 192 | 6.0000 | 6.062 |

SPUR GEARS

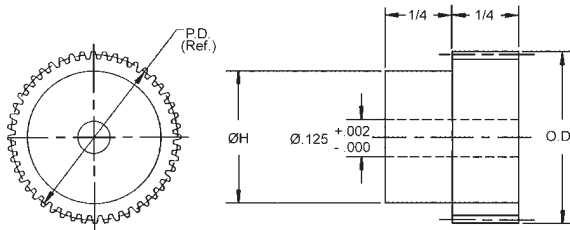
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|-----------------------------------|--------------|----------------|
| 32 | PIN HUB | 1/4" | 3/16" | 17-4 PH STAINLESS STEEL RC26 - 32 | 10 | 20° |



- For 14 - 17 teeth hub diameter equals .35
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P32PH28-14 | 14* | .4375 | .500 |
| P32PH28-15 | 15* | .4687 | .531 |
| P32PH28-16 | 16* | .5000 | .562 |
| P32PH28-17 | 17* | .5312 | .593 |
| P32PH28-18 | 18 | .5625 | .625 |
| P32PH28-19 | 19 | .5937 | .656 |
| P32PH28-20 | 20 | .6250 | .687 |
| P32PH28-24 | 24 | .7500 | .812 |
| P32PH28-28 | 28 | .8750 | .937 |
| P32PH28-32 | 32 | 1.0000 | 1.062 |
| P32PH28-34 | 34 | 1.0625 | 1.125 |
| P32PH28-36 | 36 | 1.1250 | 1.187 |
| P32PH28-38 | 38 | 1.1875 | 1.250 |
| P32PH28-40 | 40 | 1.2500 | 1.312 |

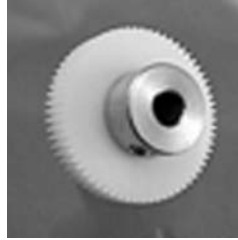
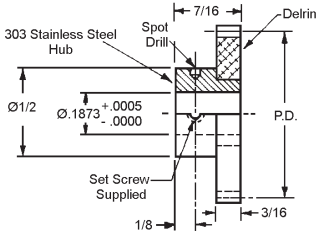
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|---|--------------|-------------|
| 32 | PIN HUB | 1/8" | 1/4" | COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM OR BRASS ALLOY 360 | 5 | 20° |



| COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | H |
|--|---------------------------|--------------|------------|--------------|------|
| PX32S-10 | PX32B-10 | 10 | .312 | .375 | .218 |
| PX32S-11 | PX32B-11 | 11 | .344 | .406 | .250 |
| PX32S-12 | PX32B-12 | 12 | .375 | .437 | .281 |
| PX32S-14 | PX32B-14 | 14 | .438 | .500 | .343 |
| PX32S-15 | PX32B-15 | 15 | .469 | .531 | .375 |
| PX32S-16 | PX32B-16 | 16 | .500 | .562 | .406 |
| PX32S-18 | PX32B-18 | 18 | .563 | .625 | .468 |
| PX32S-20 | PX32B-20 | 20 | .625 | .688 | .532 |
| - | PX32B-24 | 24 | .750 | .813 | .656 |

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|------------------------------------|--------------|----------------|
| 32 | PIN HUB | 3/16" | 3/16" | DELRIN WITH STAINLESS STEEL HUB | 10 | 20° |



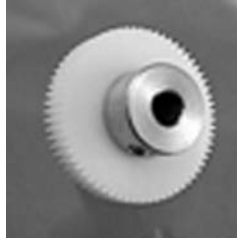
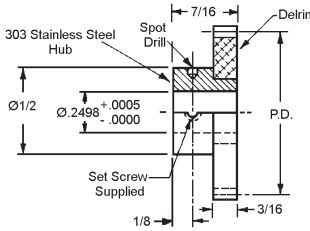
| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|--------------|------------|--------------|
| P32D21X-20 | 20 | .6250 | .687 |
| P32D21X-21 | 21 | .6562 | .718 |
| P32D21X-22 | 22 | .6875 | .750 |
| P32D21X-23 | 23 | .7187 | .781 |
| P32D21X-24 | 24 | .7500 | .812 |
| P32D21X-25 | 25 | .7812 | .843 |
| P32D21X-26 | 26 | .8125 | .875 |
| P32D21X-28 | 28 | .8750 | .937 |
| P32D21X-30 | 30 | .9375 | 1.000 |
| P32D21X-32 | 32 | 1.0000 | 1.062 |
| P32D21X-36 | 36 | 1.1250 | 1.187 |
| P32D21X-40 | 40 | 1.2500 | 1.312 |
| P32D21X-42 | 42 | 1.3125 | 1.375 |
| P32D21X-44 | 44 | 1.3750 | 1.437 |
| P32D21X-46 | 46 | 1.4375 | 1.500 |
| P32D21X-48 | 48 | 1.5000 | 1.562 |
| P32D21X-50 | 50 | 1.5625 | 1.625 |
| P32D21X-52 | 52 | 1.6250 | 1.687 |
| P32D21X-56 | 56 | 1.7500 | 1.812 |
| P32D21X-60 | 60 | 1.8750 | 1.937 |
| P32D21X-63 | 63 | 1.9687 | 2.031 |
| P32D21X-64 | 64 | 2.0000 | 2.062 |
| P32D21X-66 | 66 | 2.0625 | 2.125 |
| P32D21X-69 | 69 | 2.1562 | 2.218 |
| P32D21X-72 | 72 | 2.2500 | 2.312 |
| P32D21X-75 | 75 | 2.3437 | 2.406 |
| P32D21X-80 | 80 | 2.5000 | 2.562 |
| P32D21X-84 | 84 | 2.6250 | 2.687 |
| P32D21X-88 | 88 | 2.7500 | 2.812 |
| P32D21X-92 | 92 | 2.8750 | 2.937 |
| P32D21X-96 | 96 | 3.0000 | 3.062 |
| P32D21X-104 | 104 | 3.2500 | 3.312 |
| P32D21X-108 | 108 | 3.3750 | 3.437 |
| P32D21X-112 | 112 | 3.5000 | 3.562 |
| P32D21X-124 | 124 | 3.8750 | 3.937 |

Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|------------------------------------|--------------|----------------|
| 32 | PIN HUB | 1/4" | 3/16" | DELRIN WITH STAINLESS STEEL HUB | 10 | 20° |



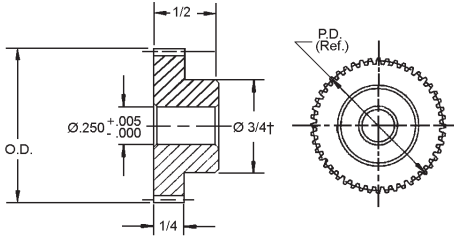
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|--------------|------------|--------------|
| P32D28X-20 | 20 | .6250 | .687 |
| P32D28X-21 | 21 | .6562 | .718 |
| P32D28X-22 | 22 | .6875 | .750 |
| P32D28X-23 | 23 | .7187 | .781 |
| P32D28X-24 | 24 | .7500 | .812 |
| P32D28X-25 | 25 | .7812 | .843 |
| P32D28X-26 | 26 | .8125 | .875 |
| P32D28X-28 | 28 | .8750 | .937 |
| P32D28X-30 | 30 | .9375 | 1.000 |
| P32D28X-32 | 32 | 1.0000 | 1.062 |
| P32D28X-36 | 36 | 1.1250 | 1.187 |
| P32D28X-40 | 40 | 1.2500 | 1.312 |
| P32D28X-42 | 42 | 1.3125 | 1.375 |
| P32D28X-44 | 44 | 1.3750 | 1.437 |
| P32D28X-46 | 46 | 1.4375 | 1.500 |
| P32D28X-48 | 48 | 1.5000 | 1.562 |
| P32D28X-50 | 50 | 1.5625 | 1.625 |
| P32D28X-52 | 52 | 1.6250 | 1.687 |
| P32D28X-56 | 56 | 1.7500 | 1.812 |
| P32D28X-60 | 60 | 1.8750 | 1.937 |
| P32D28X-63 | 63 | 1.9687 | 2.031 |
| P32D28X-64 | 64 | 2.0000 | 2.062 |
| P32D28X-66 | 66 | 2.0625 | 2.125 |
| P32D28X-69 | 69 | 2.1562 | 2.218 |
| P32D28X-72 | 72 | 2.2500 | 2.312 |
| P32D28X-75 | 75 | 2.3437 | 2.406 |
| P32D28X-80 | 80 | 2.5000 | 2.562 |
| P32D28X-84 | 84 | 2.6250 | 2.687 |
| P32D28X-88 | 88 | 2.7500 | 2.812 |
| P32D28X-92 | 92 | 2.8750 | 2.937 |
| P32D28X-96 | 96 | 3.0000 | 3.062 |
| P32D28X-104 | 104 | 3.2500 | 3.312 |
| P32D28X-108 | 108 | 3.3750 | 3.437 |
| P32D28X-112 | 112 | 3.5000 | 3.562 |
| P32D28X-124 | 124 | 3.8750 | 3.937 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

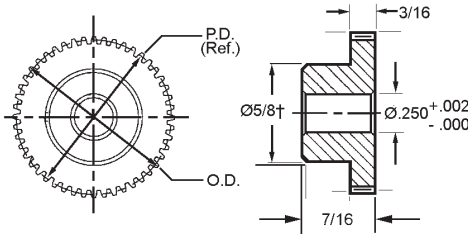
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 32 | PIN HUB | 1/4" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



‡ Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P32U66-16 | 16† | .5000 | .562 |
| P32U66-20 | 20† | .6250 | .687 |
| P32U66-24 | 24† | .7500 | .812 |
| P32U66-30 | 30 | .9375 | 1.000 |
| P32U66-32 | 32 | 1.0000 | 1.062 |
| P32U66-40 | 40 | 1.2500 | 1.312 |
| P32U66-48 | 48 | 1.5000 | 1.562 |
| P32U66-64 | 64 | 2.0000 | 2.062 |
| P32U66-72 | 72 | 2.2500 | 2.313 |
| P32U66-96 | 96 | 3.0000 | 3.062 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|---------------|--------------|-------------|
| 32 | PIN HUB | 1/4" | 3/16" | MOLDED ACETAL | 5 | 20° |

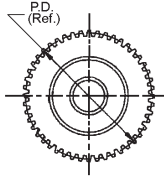
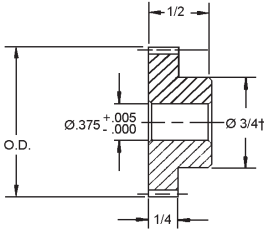


‡ Teeth runout on hub.
Available on request, other bore sizes and
numbers of teeth on request.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P32D4M-20 | 20† | .6250 | .69 |
| P32D4M-24 | 24 | .7500 | .81 |
| P32D4M-28 | 28 | .8750 | .94 |
| P32D4M-30 | 30 | .9375 | 1.00 |
| P32D4M-32 | 32 | 1.0000 | 1.06 |
| P32D4M-40 | 40 | 1.2500 | 1.31 |
| P32D4M-48 | 48 | 1.5000 | 1.56 |
| P32D4M-50 | 50 | 1.5625 | 1.63 |
| P32D4M-56 | 56 | 1.7500 | 1.81 |
| P32D4M-60 | 60 | 1.8750 | 1.94 |
| P32D4M-64 | 64 | 2.0000 | 2.06 |
| P32D4M-70 | 70 | 2.1875 | 2.25 |
| P32D4M-72 | 72 | 2.2500 | 2.31 |
| P32D4M-76 | 76 | 2.3750 | 2.44 |
| P32D4M-80 | 80 | 2.5000 | 2.56 |
| P32D4M-88 | 88 | 2.7500 | 2.81 |
| P32D4M-90 | 90 | 2.8125 | 2.88 |

SPUR GEARS

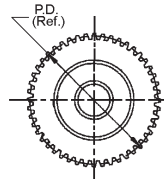
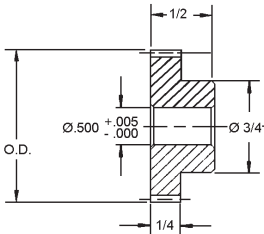
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 32 | PIN HUB | 3/8" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P32U67-20 | 20† | .6250 | .687 |
| P32U67-24 | 24† | .7500 | .812 |
| P32U67-30 | 30 | .9375 | 1.000 |
| P32U67-32 | 32 | 1.0000 | 1.062 |
| P32U67-40 | 40 | 1.2500 | 1.312 |
| P32U67-48 | 48 | 1.5000 | 1.562 |
| P32U67-64 | 64 | 2.0000 | 2.062 |
| P32U67-72 | 72 | 2.2500 | 2.313 |
| P32U67-96 | 96 | 3.0000 | 3.062 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 32 | PIN HUB | 1/2" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



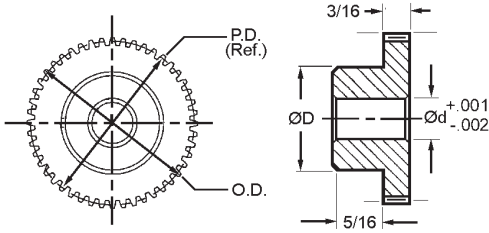
† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P32U68-24 | 24† | .7500 | .812 |
| P32U68-30 | 30 | .9375 | 1.000 |
| P32U68-32 | 32 | 1.0000 | 1.062 |
| P32U68-40 | 40 | 1.2500 | 1.312 |
| P32U68-48 | 48 | 1.5000 | 1.562 |
| P32U68-64 | 64 | 2.0000 | 2.062 |
| P32U68-72 | 72 | 2.2500 | 2.313 |
| P32U68-96 | 96 | 3.0000 | 3.062 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|----------------|-------|---------------|--------------|-------------|
| 32 | PIN HUB | 5/32" TO 5/16" | 3/16" | MOLDED DELRIN | 5 | 20° |



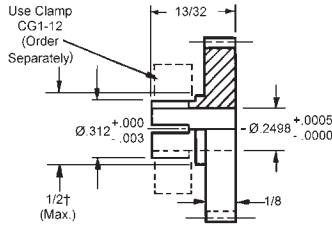
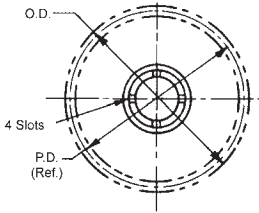
| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | Ød | ØD |
|-----------|--------------|------------|--------------|------|-------|
| P32D4P-12 | 12 | .375 | .438 | 5/32 | 9/32 |
| P32D4P-14 | 14 | .438 | .500 | 5/32 | 5/16 |
| P32D4P-15 | 15 | .469 | .532 | 5/32 | 5/16 |
| P32D4P-16 | 16 | .500 | .562 | 5/32 | 11/32 |
| P32D4P-18 | 18 | .562 | .625 | 5/32 | 11/32 |
| P32D4P-20 | 20 | .625 | .688 | 3/16 | 15/32 |
| P32D4P-22 | 22 | .688 | .750 | 3/16 | 1/2 |
| P32D4P-24 | 24 | .750 | .812 | 3/16 | 1/2 |
| P32D4P-25 | 25 | .782 | .844 | 3/16 | 9/16 |
| P32D4P-26 | 26 | .813 | .875 | 3/16 | 9/16 |
| P32D4P-28 | 28 | .875 | .938 | 3/16 | 1/2 |
| P32D4P-30 | 30 | .938 | 1.000 | 3/16 | 9/16 |
| P32D4P-32 | 32 | 1.000 | 1.062 | 1/4 | 5/8 |
| P32D4P-34 | 34 | 1.062 | 1.125 | 1/4 | 39/64 |
| P32D4P-36 | 36 | 1.125 | 1.187 | 1/4 | 39/64 |
| P32D4P-38 | 38 | 1.187 | 1.250 | 1/4 | 39/64 |
| P32D4P-40 | 40 | 1.250 | 1.312 | 1/4 | 39/64 |
| P32D4P-42 | 42 | 1.312 | 1.375 | 1/4 | 39/64 |
| P32D4P-44 | 44 | 1.375 | 1.438 | 1/4 | 39/64 |
| P32D4P-48 | 48 | 1.500 | 1.562 | 1/4 | 5/8 |
| P32D4P-52 | 52 | 1.625 | 1.688 | 5/16 | 43/64 |
| P32D4P-56 | 56 | 1.750 | 1.812 | 5/16 | 43/64 |
| P32D4P-64 | 64 | 2.000 | 2.062 | 5/16 | 43/64 |
| P32D4P-72 | 72 | 2.250 | 2.312 | 5/16 | 13/16 |
| P32D4P-80 | 80 | 2.500 | 2.562 | 5/16 | 13/16 |
| P32D4P-96 | 96 | 3.000 | 3.062 | 5/16 | 13/16 |

Some molded gears may have webs.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|------|---|--------------|----------------|
| 32 | CLAMP STYLE | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



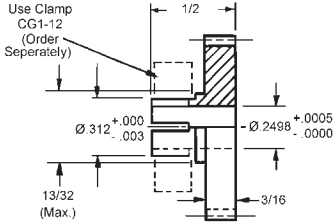
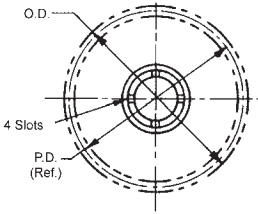
† Teeth may runout on flange diameter.
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED 5 STOCK NO. | BERG QUALITY #10 | | |
|---|---|------------------|---------------|-----------------|
| | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
| C32S18-14 | C32A18-14 | 14† | .4375 | .500 |
| C32S18-15 | C32A18-15 | 15† | .4687 | .531 |
| C32S18-16 | C32A18-16 | 16† | .5000 | .562 |
| C32S18-17 | C32A18-17 | 17† | .5312 | .593 |
| C32S18-18 | C32A18-18 | 18† | .5625 | .625 |
| C32S18-19 | C32A18-19 | 19 | .5937 | .656 |
| C32S18-20 | C32A18-20 | 20 | .6250 | .687 |
| C32S18-22 | C32A18-22 | 22 | .6875 | .750 |
| C32S18-24 | C32A18-24 | 24 | .7500 | .812 |
| C32S18-25 | C32A18-25 | 25 | .7812 | .843 |
| C32S18-26 | C32A18-26 | 26 | .8125 | .875 |
| C32S18-28 | C32A18-28 | 28 | .8750 | .937 |
| C32S18-30 | C32A18-30 | 30 | .9375 | 1.000 |
| C32S18-32 | C32A18-32 | 32 | 1.0000 | 1.062 |
| C32S18-34 | C32A18-34 | 34 | 1.0625 | 1.125 |
| C32S18-36 | C32A18-36 | 36 | 1.1250 | 1.187 |
| C32S18-38 | C32A18-38 | 38 | 1.1875 | 1.250 |
| C32S18-39 | C32A18-39 | 39 | 1.2187 | 1.281 |
| C32S18-40 | C32A18-40 | 40 | 1.2500 | 1.312 |
| C32S18-45 | C32A18-45 | 45 | 1.4062 | 1.468 |
| C32S18-48 | C32A18-48 | 48 | 1.5000 | 1.562 |
| C32S18-50 | C32A18-50 | 50 | 1.5625 | 1.625 |
| C32S18-54 | C32A18-54 | 54 | 1.6875 | 1.750 |
| C32S18-55 | C32A18-55 | 55 | 1.7187 | 1.781 |
| C32S18-56 | C32A18-56 | 56 | 1.7500 | 1.812 |
| C32S18-60 | C32A18-60 | 60 | 1.8750 | 1.937 |
| C32S18-64 | C32A18-64 | 64 | 2.0000 | 2.062 |
| C32S18-65 | C32A18-65 | 65 | 2.0312 | 2.093 |
| C32S18-68 | C32A18-68 | 68 | 2.1250 | 2.187 |
| C32S18-70 | C32A18-70 | 70 | 2.1875 | 2.250 |
| C32S18-72 | C32A18-72 | 72 | 2.2500 | 2.312 |
| C32S18-76 | C32A18-76 | 76 | 2.3750 | 2.437 |
| C32S18-80 | C32A18-80 | 80 | 2.5000 | 2.562 |
| C32S18-88 | C32A18-88 | 88 | 2.7500 | 2.812 |
| C32S18-90 | C32A18-90 | 90 | 2.8125 | 2.875 |
| C32S18-96 | C32A18-96 | 96 | 3.0000 | 3.062 |
| C32S18-112 | C32A18-112 | 112 | 3.5000 | 3.562 |
| C32S18-127 | C32A18-127 | 127 | 3.9687 | 4.031 |
| C32S18-128 | C32A18-128 | 128 | 4.0000 | 4.062 |
| C32S18-132 | C32A18-132 | 132 | 4.1250 | 4.187 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|-------|---------------------|--------------|----------------|
| 32 | CLAMP STYLE | 1/4" | 3/16" | 303 STAINLESS STEEL | 10 | 20° |



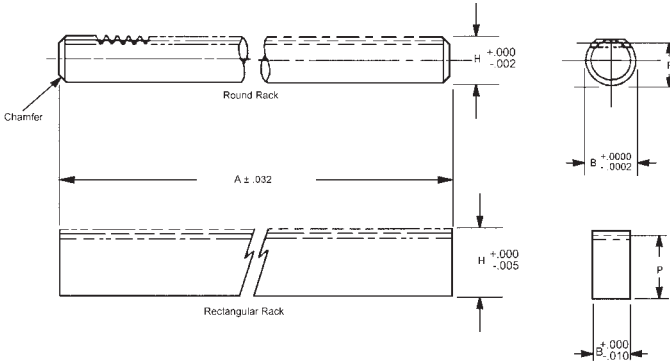
Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| C32S20-20 | 20 | .6250 | .687 |
| C32S20-21 | 21 | .6562 | .718 |
| C32S20-22 | 22 | .6875 | .750 |
| C32S20-23 | 23 | .7187 | .781 |
| C32S20-24 | 24 | .7500 | .812 |
| C32S20-25 | 25 | .7812 | .843 |
| C32S20-28 | 28 | .8750 | .937 |
| C32S20-30 | 30 | .9375 | 1.000 |
| C32S20-32 | 32 | 1.0000 | 1.062 |
| C32S20-36 | 36 | 1.1250 | 1.187 |
| C32S20-40 | 40 | 1.2500 | 1.312 |
| C32S20-48 | 48 | 1.5000 | 1.562 |
| C32S20-56 | 56 | 1.7500 | 1.812 |
| C32S20-60 | 60 | 1.8750 | 1.937 |
| C32S20-64 | 64 | 2.0000 | 2.062 |
| C32S20-72 | 72 | 2.2500 | 2.312 |
| C32S20-80 | 80 | 2.5000 | 2.562 |
| C32S20-96 | 96 | 3.0000 | 3.062 |
| C32S20-112 | 112 | 3.5000 | 3.562 |
| C32S20-128 | 128 | 4.0000 | 4.062 |
| C32S20-132 | 132 | 4.1250 | 4.187 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

GEAR RACKS

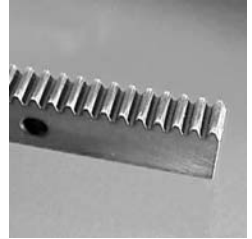
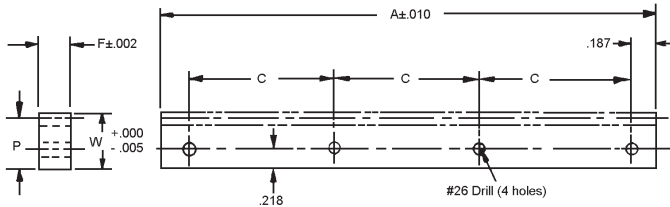
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 32 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-5 | ROUND | 32 | .3087 | .3747 | 18 | .340 | 10 |
| R2-11 | RECTANGULAR | 32 | .4487 | .230±.005 | 18 | .480 | 10 |

Available on request:
14 - 1/2° pressure angle,
special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 32 | RECTANGULAR | 416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



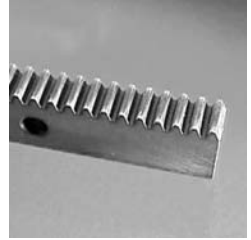
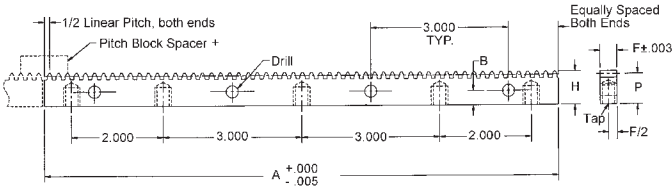
| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|---------------|----------|----------|------|------|-------|
| R4-9 | STAINLESS ST. | 10 | .4487 | .480 | .230 | 3.208 |
| R4-10 | ALUMINUM | | | | | |

Available on request: special,
modified and custom racks.

* Higher quality on request.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 32 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



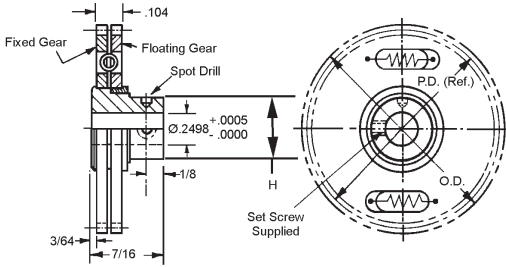
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | SPACER BLOCK | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 - .005 | F | B | DRILL | TAP |
|---------|--------------|---------------|------------------|----------------------|-------|--------------|--------|--------|----------------|------|------|-------|-------------|
| R1-5-G1 | R1-5-SB | 10* | .0014 | .0005 | 32 | .0982 | 11.087 | .4437 | .475 | .230 | .218 | #26 | #6-32 x 1/4 |
| R3-3-G1 | R3-3-SB | 10* | .0014 | .0005 | 32 | .0982 | 11.087 | .4487 | .480 | .230 | .218 | #26 | #6-32 x 1/4 |

* Higher quality on request.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 32 | PIN HUB | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE | H |
|---------------------------|-----------------------------|--------------|------------|--------------|--------------|------|
| AP32ES-20 | - | 20 | .6250 | .687 | SCISSOR | 3/8 |
| AP32ES-24 | AP32RS-24 | 24 | .7500 | .812 | | |
| AP32ES-28 | AP32RS-28 | 28 | .8750 | .937 | | |
| AP32ES-30 | AP32RS-30 | 30 | .9375 | 1.000 | | |
| AP32ES-32 | AP32RS-32 | 32 | 1.0000 | 1.062 | | |
| AP32ES-36 | AP32RS-36 | 36 | 1.1250 | 1.187 | | |
| AP32E-40 | AP32R-40 | 40 | 1.2500 | 1.312 | | |
| AP32E-42 | AP32R-42 | 42 | 1.3125 | 1.375 | | |
| AP32E-48 | AP32R-48 | 48 | 1.5000 | 1.562 | | |
| AP32E-50 | AP32R-50 | 50 | 1.5625 | 1.625 | | |
| AP32E-54 | AP32R-54 | 54 | 1.6875 | 1.750 | COIL | 7/16 |
| AP32E-56 | AP32R-56 | 56 | 1.7500 | 1.812 | | |
| AP32E-60 | AP32R-60 | 60 | 1.8750 | 1.937 | | |
| AP32E-64 | AP32R-64 | 64 | 2.0000 | 2.062 | | |
| AP32E-70 | AP32R-70 | 70 | 2.1875 | 2.250 | | |
| AP32E-72 | AP32R-72 | 72 | 2.2500 | 2.312 | | |
| AP32E-80 | AP32R-80 | 80 | 2.5000 | 2.562 | | |
| AP32E-96 | AP32R-96 | 96 | 3.0000 | 3.062 | | |

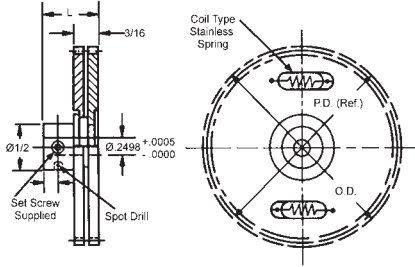
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 32 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | L | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|-------|--------------|------------|--------------|
| AP32MS-32 | AP32QS-32 | 15/32 | 32 | 1.000 | 1.062 |
| AP32MS-34 | AP32QS-34 | | 34 | 1.062 | 1.125 |
| AP32MS-36 | AP32QS-36 | | 36 | 1.125 | 1.187 |
| AP32MS-38 | AP32QS-38 | | 38 | 1.187 | 1.250 |
| AP32M-40 | AP32Q-40 | | 40 | 1.250 | 1.312 |
| AP32M-45 | AP32Q-45 | 27/64 | 45 | 1.406 | 1.468 |
| AP32M-48 | AP32Q-48 | | 48 | 1.500 | 1.562 |
| AP32M-50 | AP32Q-50 | | 50 | 1.562 | 1.625 |
| AP32M-55 | AP32Q-55 | | 55 | 1.718 | 1.781 |
| AP32M-56 | AP32Q-56 | | 56 | 1.750 | 1.812 |
| AP32M-60 | AP32Q-60 | | 60 | 1.875 | 1.937 |
| AP32M-64 | AP32Q-64 | | 64 | 2.000 | 2.062 |
| AP32M-65 | AP32Q-65 | | 65 | 2.031 | 2.093 |
| AP32M-70 | AP32Q-70 | | 70 | 2.187 | 2.250 |
| AP32M-72 | AP32Q-72 | | 72 | 2.250 | 2.312 |
| AP32M-75 | AP32Q-75 | | 75 | 2.343 | 2.406 |
| AP32M-80 | AP32Q-80 | | 80 | 2.500 | 2.562 |
| AP32M-85 | AP32Q-85 | | 85 | 2.656 | 2.718 |

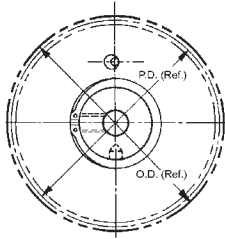
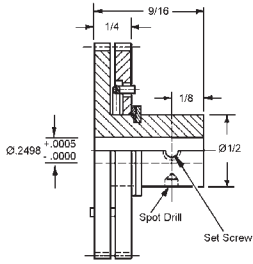
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 32 | PIN HUB | 1/4" | 1/4" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|-----------------------------|-------|--------------|------------|--------------|
| AP32BS-24 | AP32DS-24 | 32 | 24 | .7500 | .813 |
| AP32BS-28 | AP32DS-28 | | 28 | .8750 | .938 |
| AP32BS-32 | AP32DS-32 | | 32 | 1.0000 | 1.063 |

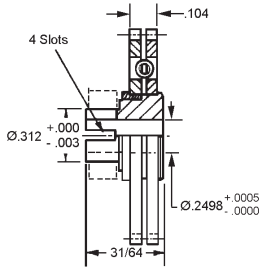
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 32 | CLAMP STYLE | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO.OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|---------------------------|-----------------------------|-------------|------------|--------------|--------------|
| AC32ES-20 | - | 20 | .6250 | .687 | SCISSOR |
| AC32ES-24 | AC32RS-24 | 24 | .7500 | .812 | |
| AC32ES-28 | AC32RS-28 | 28 | .8750 | .937 | |
| AC32ES-30 | AC32RS-30 | 30 | .9375 | 1.000 | |
| AC32E-32 | AC32R-32 | 32 | 1.0000 | 1.062 | COIL |
| AC32E-36 | AC32R-36 | 36 | 1.1250 | 1.187 | |
| AC32E-40 | AC32R-40 | 40 | 1.2500 | 1.312 | |
| AC32E-42 | AC32R-42 | 42 | 1.3125 | 1.375 | |
| AC32E-48 | AC32R-48 | 48 | 1.5000 | 1.562 | |
| AC32E-50 | AC32R-50 | 50 | 1.5625 | 1.625 | |
| AC32E-54 | AC32R-54 | 54 | 1.6875 | 1.750 | |
| AC32E-56 | AC32R-56 | 56 | 1.7500 | 1.812 | |
| AC32E-60 | AC32R-60 | 60 | 1.8750 | 1.937 | |
| AC32E-64 | AC32R-64 | 64 | 2.0000 | 2.062 | |
| AC32E-70 | AC32R-70 | 70 | 2.1875 | 2.250 | |
| AC32E-72 | AC32R-72 | 72 | 2.2500 | 2.312 | |
| AC32E-80 | AC32R-80 | 80 | 2.5000 | 2.562 | |
| AC32E-96 | AC32R-96 | 96 | 3.0000 | 3.062 | |

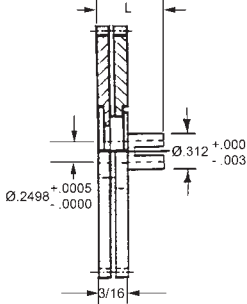
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------|------|-------|--|--------------|-------------|
| 32 | CLAMP STYLE | 1/4" | 3/16" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

Hub Material: 303 Stainless Steel

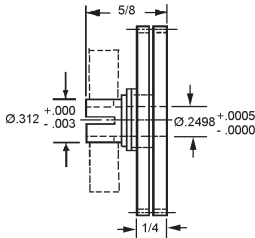


| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | L | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|-------|--------------|------------|--------------|
| AC32MS-32 | AC32QS-32 | 15/32 | 32 | 1.000 | 1.062 |
| AC32MS-34 | AC32QS-34 | | 34 | 1.062 | 1.125 |
| AC32MS-36 | AC32QS-36 | | 36 | 1.125 | 1.187 |
| AC32MS-38 | AC32QS-38 | | 38 | 1.187 | 1.250 |
| AC32M-40 | AC32Q-40 | | 40 | 1.250 | 1.312 |
| AC32M-45 | AC32Q-45 | 27/64 | 45 | 1.406 | 1.468 |
| AC32M-48 | AC32Q-48 | | 48 | 1.500 | 1.562 |
| AC32M-50 | AC32Q-50 | | 50 | 1.562 | 1.625 |
| AC32M-55 | AC32Q-55 | | 55 | 1.718 | 1.781 |
| AC32M-56 | AC32Q-56 | | 56 | 1.750 | 1.812 |
| AC32M-60 | AC32Q-60 | | 60 | 1.875 | 1.937 |
| AC32M-64 | AC32Q-64 | | 64 | 2.000 | 2.062 |
| AC32M-65 | AC32Q-65 | | 65 | 2.031 | 2.093 |
| AC32M-70 | AC32Q-70 | | 70 | 2.187 | 2.250 |
| AC32M-72 | AC32Q-72 | | 72 | 2.250 | 2.312 |
| AC32M-75 | AC32Q-75 | 75 | 2.343 | 2.406 | |
| AC32M-80 | AC32Q-80 | 80 | 2.500 | 2.562 | |
| AC32M-85 | AC32Q-85 | 85 | 2.656 | 2.718 | |

Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14 (some dimensions may vary);
14-12° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------|------|------|--|--------------|-------------|
| 32 | CLAMP STYLE | 1/4" | 1/4" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303
Stainless Steel

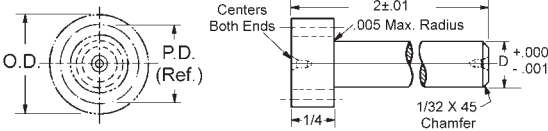
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|-------|--------------|------------|--------------|
| AC32BS-24 | AC32DS-24 | 32 | 24 | .7500 | .813 |
| AC32BS-28 | AC32DS-28 | | 28 | .8750 | .938 |
| AC32BS-32 | AC32DS-32 | | 32 | 1.0000 | 1.063 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

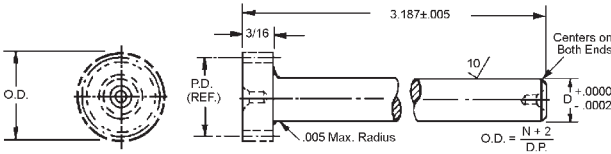
PINION SHAFTS

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|--------------------------------|--------------|-------------|
| 32 | BRASS AND COLD ROLLED STEEL | 4 | 20° |



| 303 STAINLESS STEEL STOCK NO. | BRASS ALLOY 360 STOCK NO. | NUMBER OF TEETH | PITCH DIAMETER | OUTSIDE DIAMETER | D |
|-------------------------------|---------------------------|-----------------|----------------|------------------|------|
| PSX32S-11 | PSX32B-11 | 11 | .3438 | .406 | .250 |
| PSX32S-12 | PSX32B-12 | 12 | .3750 | .437 | .250 |
| PSX32S-14 | PSX32B-14 | 14 | .4375 | .500 | .312 |
| PSX32S-15 | PSX32B-15 | 15 | .4688 | .531 | .375 |
| PSX32S-16 | PSX32B-16 | 16 | .5000 | .562 | .375 |

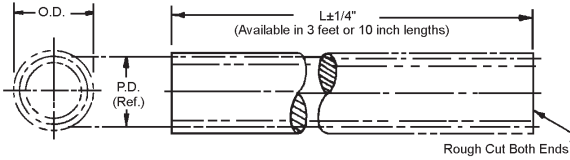
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 32 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS32S4-12H | 32 | 12 | .3750 | .2497 |
| PS32S4-14H | | 14 | .4375 | .2497 |
| PS32S4-16H | | 16 | .5000 | .2497 |

SPUR GEAR STOCK

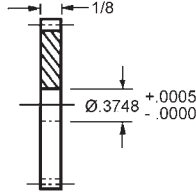
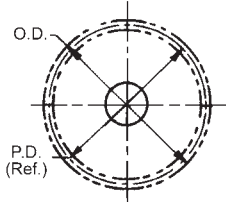
| PITCH | TYPE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--------------------------------|--------------|----------------|
| 32 | PINION WIRE | BRASS AND COLD ROLLED STEEL | 4 | 20° |



| BRASS ALLOY 360 | | COLD ROLLED STEEL WITH 12L14 or 12L15 SELENIUM | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|-----------------------------|--|-----------------------------|-----------------|---------------|-----------------|
| 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | | | |
| PW32B-6 | PW32B-6A | PW32S-6 | PW32S-6A | 6 | .1875 | .250 |
| PW32B-8 | PW32B-8A | PW32S-8 | PW32S-8A | 8 | .2500 | .312 |
| PW32B-9 | PW32B-9A | PW32S-9 | PW32S-9A | 9 | .2812 | .343 |
| PW32B-10 | PW32B-10A | PW32S-10 | PW32S-10A | 10 | .3125 | .375 |
| PW32B-11 | PW32B-11A | PW32S-11 | PW32S-11A | 11 | .3437 | .406 |
| PW32B-12X | PW32B-12A | PW32S-12X | PW32S-12A | 12 | .3750 | .437 |
| PW32B-14X | PW32B-14A | PW32S-14X | PW32S-14A | 14 | .4375 | .500 |
| PW32B-15X | PW32B-15A | PW32S-15X | PW32S-15A | 15 | .4687 | .531 |
| PW32B-16X | PW32B-16A | PW32S-16X | PW32S-16A | 16 | .5000 | .562 |
| PW32B-18 | PW32B-18A | PW32S-18 | PW32S-18A | 18 | .5625 | .625 |
| PW32B-20 | PW32B-20A | PW32S-20 | PW32S-20A | 20 | .6250 | .687 |
| PW32B-24 | PW32B-24A | - | - | 24 | .7500 | .812 |

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 48 | HUBLESS | 3/8" | 1/8" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



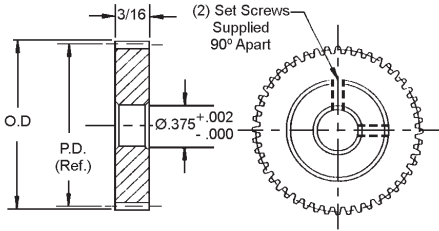
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| F48S3-30 | F48A3-30 | 30 | .6250 | .666 |
| F48S3-32 | F48A3-32 | 32 | .6666 | .708 |
| F48S3-40 | F48A3-40 | 40 | .8333 | .875 |
| F48S3-42 | F48A3-42 | 42 | .8750 | .916 |
| F48S3-44 | F48A3-44 | 44 | .9166 | .958 |
| F48S3-48 | F48A3-48 | 48 | 1.0000 | 1.041 |
| F48S3-50 | F48A3-50 | 50 | 1.0416 | 1.083 |
| F48S3-54 | F48A3-54 | 54 | 1.1250 | 1.166 |
| F48S3-60 | F48A3-60 | 60 | 1.2500 | 1.291 |
| F48S3-64 | F48A3-64 | 64 | 1.3333 | 1.375 |
| F48S3-65 | F48A3-65 | 65 | 1.3541 | 1.395 |
| F48S3-70 | F48A3-70 | 70 | 1.4583 | 1.500 |
| F48S3-72 | F48A3-72 | 72 | 1.5000 | 1.541 |
| F48S3-75 | F48A3-75 | 75 | 1.5625 | 1.604 |
| F48S3-80 | F48A3-80 | 80 | 1.6666 | 1.708 |
| F48S3-84 | F48A3-84 | 84 | 1.7500 | 1.791 |
| F48S3-85 | F48A3-85 | 85 | 1.7708 | 1.812 |
| F48S3-90 | F48A3-90 | 90 | 1.8750 | 1.916 |
| F48S3-96 | F48A3-96 | 96 | 2.0000 | 2.041 |
| F48S3-100 | F48A3-100 | 100 | 2.0833 | 2.125 |
| F48S3-105 | F48A3-105 | 105 | 2.1875 | 2.229 |
| F48S3-108 | F48A3-108 | 108 | 2.2500 | 2.291 |
| F48S3-110 | F48A3-110 | 110 | 2.2916 | 2.333 |
| F48S3-114 | F48A3-114 | 114 | 2.3750 | 2.416 |
| F48S3-120 | F48A3-120 | 120 | 2.5000 | 2.541 |
| F48S3-125 | F48A3-125 | 125 | 2.6041 | 2.645 |
| F48S3-130 | F48A3-130 | 130 | 2.7083 | 2.750 |
| F48S3-132 | F48A3-132 | 132 | 2.7500 | 2.791 |
| F48S3-135 | F48A3-135 | 135 | 2.8125 | 2.854 |
| F48S3-138 | F48A3-138 | 138 | 2.8750 | 2.916 |
| F48S3-140 | F48A3-140 | 140 | 2.9166 | 2.958 |
| F48S3-144 | F48A3-144 | 144 | 3.0000 | 3.041 |
| F48S3-150 | F48A3-150 | 150 | 3.1250 | 3.166 |
| F48S3-156 | F48A3-156 | 156 | 3.2500 | 3.291 |
| F48S3-160 | F48A3-160 | 160 | 3.3333 | 3.375 |
| F48S3-168 | F48A3-168 | 168 | 3.5000 | 3.541 |
| F48S3-170 | F48A3-170 | 170 | 3.5416 | 3.583 |
| F48S3-180 | F48A3-180 | 180 | 3.7500 | 3.791 |
| F48S3-186 | F48A3-186 | 186 | 3.8750 | 3.916 |
| F48S3-190 | F48A3-190 | 190 | 3.9583 | 4.000 |
| F48S3-192 | F48A3-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

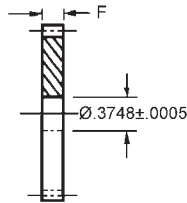
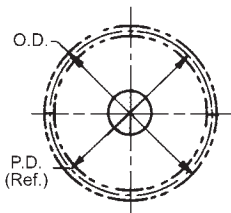
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---------------------------|--------------|----------------|
| 48 | HUBLESS | 3/8" | 3/16" | ALUMINUM GOLD ANODIZED | 8 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| F48A76-28 | 28 | .5833 | .625 |
| F48A76-30 | 30 | .6250 | .666 |
| F48A76-36 | 36 | .7500 | .791 |
| F48A76-40 | 40 | .8333 | .875 |
| F48A76-46 | 46 | .9583 | 1.000 |
| F48A76-48 | 48 | 1.0000 | 1.041 |
| F48A76-60 | 60 | 1.2500 | 1.291 |
| F48A76-70 | 70 | 1.4583 | 1.500 |
| F48A76-72 | 72 | 1.5000 | 1.541 |
| F48A76-80 | 80 | 1.6666 | 1.708 |
| F48A76-90 | 90 | 1.8750 | 2.041 |
| F48A76-96 | 96 | 2.0000 | 2.125 |
| F48A76-100 | 100 | 2.0833 | 2.333 |
| F48A76-110 | 110 | 2.2916 | 2.541 |
| F48A76-132 | 132 | 2.7500 | 2.791 |
| F48A76-144 | 144 | 3.0000 | 3.041 |
| F48A76-150 | 150 | 3.1250 | 3.166 |
| F48A76-168 | 168 | 3.5000 | 3.541 |
| F48A76-192 | 192 | 4.0000 | 4.041 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------------------|--------------|--------------|----------------|
| 48 | HUBLESS | 3/8" | 1/8" AND 1/4" | POLYURETHANE | 8 | 20° |

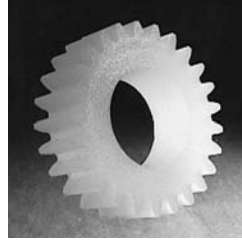
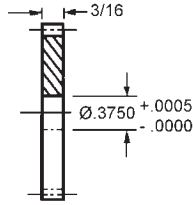
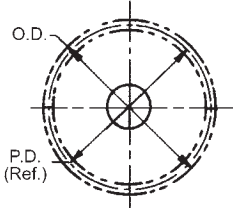


Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | F |
|-----------|--------------|------------|--------------|------|
| F48U3-48 | 48 | 1.0000 | 1.041 | .125 |
| F48U3-60 | 60 | 1.2500 | 1.291 | .125 |
| F48U3-72 | 72 | 1.5000 | 1.541 | .125 |
| F48U3-84 | 84 | 1.7500 | 1.791 | .125 |
| F48U3-96 | 96 | 2.0000 | 2.041 | .125 |
| F48U3-108 | 108 | 2.2500 | 2.291 | .125 |
| F48U6-120 | 120 | 2.5000 | 2.541 | .250 |
| F48U6-144 | 144 | 3.0000 | 3.041 | .250 |
| F48U6-168 | 168 | 3.5000 | 3.541 | .250 |
| F48U6-192 | 192 | 4.0000 | 4.041 | .250 |

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|----------|--------------|----------------|
| 48 | HUBLESS | 3/8" | 3/16" | DELFIN | 10 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F48D5-28 | 28 | .5833 | .625 |
| F48D5-29 | 29 | .6041 | .645 |
| F48D5-30 | 30 | .6250 | .666 |
| F48D5-32 | 32 | .6666 | .708 |
| F48D5-34 | 34 | .7083 | .750 |
| F48D5-36 | 36 | .7500 | .791 |
| F48D5-38 | 38 | .7916 | .833 |
| F48D5-40 | 40 | .8333 | .875 |
| F48D5-42 | 42 | .8750 | .916 |
| F48D5-44 | 44 | .9166 | .958 |
| F48D5-46 | 46 | .9583 | 1.000 |
| F48D5-48 | 48 | 1.0000 | 1.041 |
| F48D5-50 | 50 | 1.0416 | 1.083 |
| F48D5-55 | 55 | 1.1458 | 1.187 |
| F48D5-56 | 56 | 1.1666 | 1.208 |
| F48D5-60 | 60 | 1.2500 | 1.291 |
| F48D5-64 | 64 | 1.3333 | 1.375 |
| F48D5-68 | 68 | 1.4166 | 1.458 |
| F48D5-72 | 72 | 1.5000 | 1.541 |
| F48D5-75 | 75 | 1.5625 | 1.604 |
| F48D5-80 | 80 | 1.6666 | 1.708 |
| F48D5-84 | 84 | 1.7500 | 1.791 |
| F48D5-90 | 90 | 1.8750 | 1.916 |
| F48D5-92 | 92 | 1.9166 | 1.958 |
| F48D5-96 | 96 | 2.0000 | 2.041 |
| F48D5-100 | 100 | 2.0833 | 2.125 |
| F48D5-110 | 110 | 2.2916 | 2.333 |
| F48D5-120 | 120 | 2.5000 | 2.541 |
| F48D5-132 | 132 | 2.7500 | 2.791 |
| F48D5-138 | 138 | 2.8750 | 2.916 |
| F48D5-144 | 144 | 3.0000 | 3.041 |
| F48D5-156 | 156 | 3.2500 | 3.291 |
| F48D5-168 | 168 | 3.5000 | 3.541 |
| F48D5-180 | 180 | 3.7500 | 3.791 |
| F48D5-186 | 186 | 3.8750 | 3.916 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 48 | X | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

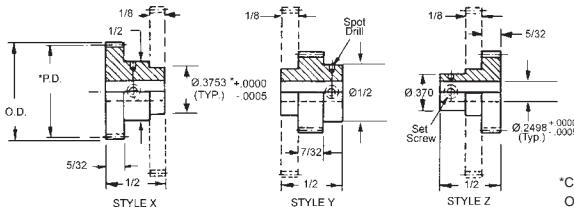
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP48S14-20 | 48 | 20 | .4166 | .458 |
| DP48S14-21 | | 21 | .4375 | .479 |
| DP48S14-22 | | 22 | .4583 | .500 |
| DP48S14-23 | | 23 | .4791 | .521 |
| DP48S14-24 | | 24 | .5000 | .542 |
| DP48S14-25 | | 25 | .5208 | .563 |
| DP48S14-26 | | 26 | .5416 | .583 |
| DP48S14-30 | | 30 | .6250 | .667 |
| DP48S14-32 | | 32 | .6666 | .708 |
| DP48S14-40 | | 40 | .8333 | .875 |
| DP48S14-48 | | 48 | 1.0000 | 1.041 |
| DP48S14-50 | | 50 | 1.0416 | 1.083 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 48 | Y | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP48S16-20 | 48 | 20 | .4166 | .458 |
| DP48S16-21 | | 21 | .4375 | .479 |
| DP48S16-22 | | 22 | .4583 | .500 |
| DP48S16-23 | | 23 | .4791 | .521 |
| DP48S16-24 | | 24 | .5000 | .542 |
| DP48S16-25 | | 25 | .5208 | .563 |
| DP48S16-26 | | 26 | .5416 | .583 |
| DP48S16-30 | | 30 | .6250 | .667 |
| DP48S16-32 | | 32 | .6666 | .708 |
| DP48S16-40 | | 40 | .8333 | .875 |
| DP48S16-48 | | 48 | 1.0000 | 1.041 |
| DP48S16-50 | | 50 | 1.0416 | 1.083 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 48 | Z | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP48S18-20 | 48 | 20 | .4166 | .458 |
| DP48S18-21 | | 21 | .4375 | .479 |
| DP48S18-22 | | 22 | .4583 | .500 |
| DP48S18-23 | | 23 | .4791 | .521 |
| DP48S18-24 | | 24 | .5000 | .542 |
| DP48S18-25 | | 25 | .5208 | .563 |
| DP48S18-26 | | 26 | .5416 | .583 |
| DP48S18-30 | | 30 | .6250 | .667 |
| DP48S18-32 | | 32 | .6666 | .708 |
| DP48S18-40 | | 40 | .8333 | .875 |
| DP48S18-48 | | 48 | 1.0000 | 1.041 |
| DP48S18-50 | | 50 | 1.0416 | 1.083 |



*Concentric within .0003
Order hubless gear separately.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 48 | X | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

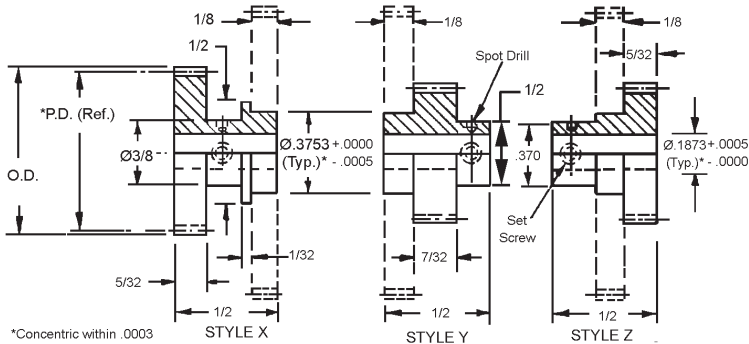
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|-------|--------------|------------|--------------|
| DP48S8-20 | 48 | 20 | .4166 | .458 |
| DP48S8-21 | | 21 | .4375 | .479 |
| DP48S8-23 | | 23 | .4701 | .521 |
| DP48S8-24 | | 24 | .5000 | .542 |
| DP48S8-40 | | 40 | .8333 | .875 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 48 | Y | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP48S10-20 | 48 | 20 | .4166 | .458 |
| DP48S10-21 | | 21 | .4375 | .479 |
| DP48S10-23 | | 23 | .4701 | .521 |
| DP48S10-24 | | 24 | .5000 | .542 |
| DP48S10-40 | | 40 | .8333 | .875 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 48 | Z | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP48S12-20 | 48 | 20 | .4166 | .458 |
| DP48S12-21 | | 21 | .4375 | .479 |
| DP48S12-23 | | 23 | .4701 | .521 |
| DP48S12-24 | | 24 | .5000 | .542 |
| DP48S12-40 | | 40 | .8333 | .875 |



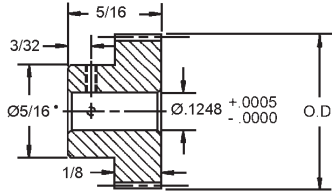
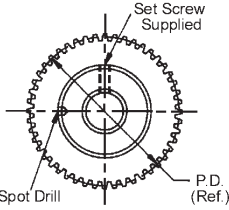
Order hubless gear separately

Available on request:

Other numbers of teeth; AGMA quality 12 and 14; 14-1/2° Pressure Angle.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 48 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



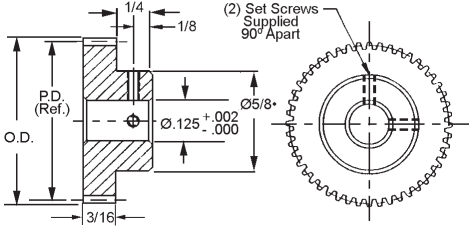
- For 14-15 teeth hub diameter equals .23
Available on request, other numbers of
teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| P48S10-15 | P48A10-15 | 15* | .3125 | .354 |
| P48S10-18 | P48A10-18 | 18 | .3750 | .416 |
| P48S10-19 | P48A10-19 | 19 | .3958 | .437 |
| P48S10-20 | P48A10-20 | 20 | .4166 | .458 |
| P48S10-21 | P48A10-21 | 21 | .4375 | .479 |
| P48S10-22 | P48A10-22 | 22 | .4583 | .500 |
| P48S10-24 | P48A10-24 | 24 | .5000 | .541 |
| P48S10-25 | P48A10-25 | 25 | .5208 | .562 |
| P48S10-26 | P48A10-26 | 26 | .5416 | .583 |
| P48S10-27 | P48A10-27 | 27 | .5625 | .604 |
| P48S10-28 | P48A10-28 | 28 | .5833 | .625 |
| P48S10-30 | P48A10-30 | 30 | .6250 | .666 |
| P48S10-32 | P48A10-32 | 32 | .6666 | .708 |
| P48S10-34 | P48A10-34 | 34 | .7083 | .750 |
| P48S10-36 | P48A10-36 | 36 | .7500 | .791 |
| P48S10-40 | P48A10-40 | 40 | .8333 | .875 |
| P48S10-42 | P48A10-42 | 42 | .8750 | .916 |
| P48S10-46 | P48A10-46 | 46 | .9583 | 1.000 |
| P48S10-48 | P48A10-48 | 48 | 1.0000 | 1.041 |
| P48S10-50 | P48A10-50 | 50 | 1.0416 | 1.083 |
| P48S10-55 | P48A10-55 | 55 | 1.1458 | 1.187 |
| P48S10-56 | P48A10-56 | 56 | 1.1666 | 1.208 |
| P48S10-60 | P48A10-60 | 60 | 1.2500 | 1.291 |
| P48S10-64 | P48A10-64 | 64 | 1.3333 | 1.375 |
| P48S10-65 | P48A10-65 | 65 | 1.3541 | 1.395 |
| P48S10-70 | P48A10-70 | 70 | 1.4583 | 1.500 |
| P48S10-72 | P48A10-72 | 72 | 1.5000 | 1.541 |
| P48S10-75 | P48A10-75 | 75 | 1.5625 | 1.604 |
| P48S10-80 | P48A10-80 | 80 | 1.6666 | 1.708 |
| P48S10-84 | P48A10-84 | 84 | 1.7500 | 1.791 |
| P48S10-85 | P48A10-85 | 85 | 1.7708 | 1.812 |
| P48S10-90 | P48A10-90 | 90 | 1.8750 | 1.916 |
| P48S10-96 | P48A10-96 | 96 | 2.0000 | 2.041 |
| P48S10-100 | P48A10-100 | 100 | 2.0833 | 2.125 |
| P48S10-102 | P48A10-102 | 102 | 2.1250 | 2.166 |
| P48S10-105 | P48A10-105 | 105 | 2.1875 | 2.229 |
| P48S10-110 | P48A10-110 | 110 | 2.2916 | 2.333 |
| P48S10-120 | P48A10-120 | 120 | 2.5000 | 2.541 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|-------------------|--------------|----------------|
| 48 | PIN HUB | 1/8" | 3/16" | ALUMINUM ANODIZED | 8 | 20° |



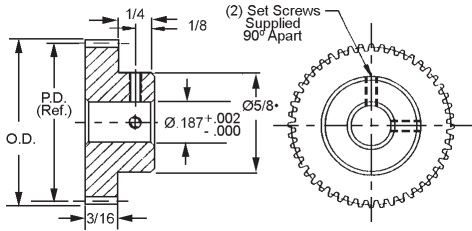
- For 16-32 teeth hub diameter equals .27
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P48A65-16 | 16• | .3333 | .375 |
| P48A65-18 | 18• | .3750 | .416 |
| P48A65-20 | 20• | .4166 | .458 |
| P48A65-22 | 22• | .4583 | .500 |
| P48A65-24 | 24• | .5000 | .541 |
| P48A65-28 | 28• | .5833 | .625 |
| P48A65-30 | 30• | .6250 | .666 |
| P48A65-36 | 36 | .7500 | .79 |
| P48A65-40 | 40 | .8333 | .875 |
| P48A65-46 | 46 | .9583 | 1.000 |
| P48A65-48 | 48 | 1.0000 | 1.041 |
| P48A65-60 | 60 | 1.2500 | 1.291 |
| P48A65-70 | 70 | 1.4583 | 1.500 |
| P48A65-72 | 72 | 1.5000 | 1.541 |
| P48A65-80 | 80 | 1.6666 | 1.708 |
| P48A65-90 | 90 | 1.8750 | 1.916 |
| P48A65-96 | 96 | 2.0000 | 2.041 |
| P48A65-100 | 100 | 2.0833 | 2.125 |
| P48A65-110 | 110 | 2.2916 | 2.333 |
| P48A65-120 | 120 | 2.5000 | 2.541 |
| P48A65-132 | 132 | 2.7500 | 2.791 |
| P48A65-144 | 144 | 3.0000 | 3.041 |
| P48A65-150 | 150 | 3.1250 | 3.166 |
| P48A65-168 | 168 | 3.5000 | 3.541 |
| P48A65-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|-------------------|--------------|----------------|
| 48 | PIN HUB | 3/16" | 3/16" | ALUMINUM ANODIZED | 8 | 20° |



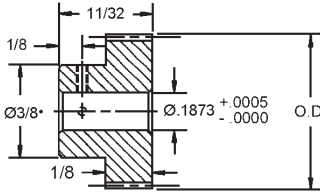
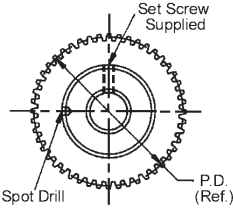
- For 19-32 teeth hub diameter equals .34
Available on request, other numbers of teeth
and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P48A64-20 | 20• | .4166 | .458 |
| P48A64-22 | 22• | .4583 | .500 |
| P48A64-24 | 24• | .5000 | .541 |
| P48A64-28 | 28• | .5833 | .625 |
| P48A64-30 | 30• | .6250 | .666 |
| P48A64-36 | 36 | .7500 | .79 |
| P48A64-40 | 40 | .8333 | .875 |
| P48A64-46 | 46 | .9583 | 1.000 |
| P48A64-48 | 48 | 1.0000 | 1.041 |
| P48A64-60 | 60 | 1.2500 | 1.291 |
| P48A64-70 | 70 | 1.4583 | 1.500 |
| P48A64-72 | 72 | 1.5000 | 1.541 |
| P48A64-80 | 80 | 1.6666 | 1.708 |
| P48A64-90 | 90 | 1.8750 | 1.916 |
| P48A64-96 | 96 | 2.0000 | 2.041 |
| P48A64-100 | 100 | 2.0833 | 2.125 |
| P48A64-110 | 110 | 2.2916 | 2.333 |
| P48A64-120 | 120 | 2.5000 | 2.541 |
| P48A64-132 | 132 | 2.7500 | 2.791 |
| P48A64-144 | 144 | 3.0000 | 3.041 |
| P48A64-150 | 150 | 3.1250 | 3.166 |
| P48A64-168 | 168 | 3.5000 | 3.541 |
| P48A64-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|------|---|--------------|----------------|
| 48 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



- For 19-20 teeth hub diameter equals .34
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

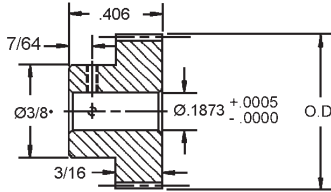
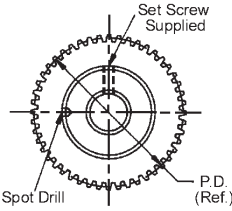
X in part number indicates part may be supplied as two piece construction (some dimensions may vary).

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| P48S19-19 | P48A19-19 | 19* | .3958 | .437 |
| P48S19-20 | P48A19-20 | 20* | .4166 | .458 |
| P48S19-21 | P48A19-21 | 21 | .4375 | .479 |
| P48S19-22 | P48A19-22 | 22 | .4583 | .500 |
| P48S19-23 | P48A19-23 | 23 | .4791 | .520 |
| P48S19-24 | P48A19-24 | 24 | .5000 | .541 |
| P48S19-25 | P48A19-25 | 25 | .5208 | .562 |
| P48S19-28 | P48A19-28 | 28 | .5833 | .625 |
| P48S19-30 | P48A19-30 | 30 | .6250 | .666 |
| P48S19-32 | P48A19-32 | 32 | .6666 | .708 |
| P48S19-34 | P48A19-34 | 34 | .7083 | .750 |
| P48S19-36 | P48A19-36 | 36 | .7500 | .791 |
| P48S19-40 | P48A19-40 | 40 | .8333 | .875 |
| P48S19-42 | P48A19-42 | 42 | .8750 | .916 |
| P48S19-46 | P48A19-46 | 46 | .9583 | 1.000 |
| P48S19-48 | P48A19-48 | 48 | 1.0000 | 1.041 |
| P48S19-50 | P48A19-50 | 50 | 1.0416 | 1.083 |
| P48S19-60 | P48A19-60 | 60 | 1.2500 | 1.291 |
| P48S19-64 | P48A19-64 | 64 | 1.3333 | 1.375 |
| P48S19-70 | P48A19-70 | 70 | 1.4583 | 1.500 |
| P48S19-72 | P48A19-72 | 72 | 1.5000 | 1.541 |
| P48S19-80 | P48A19-80 | 80 | 1.6666 | 1.708 |
| P48S19-84 | P48A19-84 | 84 | 1.7500 | 1.791 |
| P48S19-90 | P48A19-90 | 90 | 1.8750 | 1.916 |
| P48S19-96 | P48A19-96 | 96 | 2.0000 | 2.041 |
| P48S19-105 | P48A19-105 | 105 | 2.1875 | 2.229 |
| P48S19-120 | P48A19-120 | 120 | 2.5000 | 2.541 |
| P48S19-132 | P48A19-132 | 132 | 2.7500 | 2.791 |
| P48S19-144 | P48A19-144 | 144 | 3.0000 | 3.041 |
| P48S19X-156 | P48A19X-156 | 156 | 3.2500 | 3.291 |
| P48S19X-168 | P48A19X-168 | 168 | 3.5000 | 3.541 |
| P48S19X-190 | P48A19X-190 | 190 | 3.9583 | 4.000 |
| P48S19X-192 | P48A19X-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---|--------------|----------------|
| 48 | PIN HUB | 3/16" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



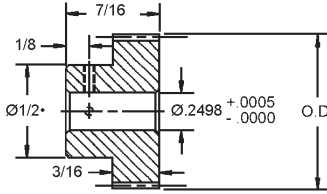
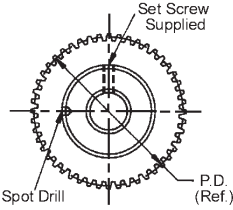
- For 19-20 teeth hub diameter equals .34
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P48S21-20 | P48A21-20 | 20* | .4166 | .458 |
| P48S21-21 | P48A21-21 | 21 | .4375 | .479 |
| P48S21-22 | P48A21-22 | 22 | .4583 | .500 |
| P48S21-23 | P48A21-23 | 23 | .4791 | .520 |
| P48S21-24 | P48A21-24 | 24 | .5000 | .541 |
| P48S21-25 | P48A21-25 | 25 | .5208 | .562 |
| P48S21-26 | P48A21-26 | 26 | .5416 | .583 |
| P48S21-27 | P48A21-27 | 27 | .5625 | .604 |
| P48S21-28 | P48A21-28 | 28 | .5833 | .625 |
| P48S21-29 | P48A21-29 | 29 | .6041 | .645 |
| P48S21-30 | P48A21-30 | 30 | .6250 | .666 |
| P48S21-32 | P48A21-32 | 32 | .6666 | .708 |
| P48S21-34 | P48A21-34 | 34 | .7083 | .750 |
| P48S21-36 | P48A21-36 | 36 | .7500 | .791 |
| P48S21-40 | P48A21-40 | 40 | .8333 | .875 |
| P48S21-44 | P48A21-44 | 44 | .9166 | .958 |
| P48S21-48 | P48A21-48 | 48 | 1.0000 | 1.041 |
| P48S21-50 | P48A21-50 | 50 | 1.0416 | 1.083 |
| P48S21-55 | P48A21-55 | 55 | 1.1458 | 1.187 |
| P48S21-60 | P48A21-60 | 60 | 1.2500 | 1.291 |
| P48S21-64 | P48A21-64 | 64 | 1.3333 | 1.375 |
| P48S21-65 | P48A21-65 | 65 | 1.3541 | 1.395 |
| P48S21-72 | P48A21-72 | 72 | 1.5000 | 1.541 |
| P48S21-84 | P48A21-84 | 84 | 1.7500 | 1.791 |
| P48S21-85 | P48A21-85 | 85 | 1.7708 | 1.812 |
| P48S21-90 | P48A21-90 | 90 | 1.8750 | 1.916 |
| P48S21-92 | P48A21-92 | 92 | 1.9166 | 1.958 |
| P48S21-95 | P48A21-95 | 95 | 1.9791 | 2.020 |
| P48S21-96 | P48A21-96 | 96 | 2.0000 | 2.041 |
| P48S21-100 | P48A21-100 | 100 | 2.0833 | 2.125 |
| P48S21-108 | P48A21-108 | 108 | 2.2500 | 2.291 |
| P48S21-120 | P48A21-120 | 120 | 2.5000 | 2.541 |
| P48S21-127 | P48A21-127 | 127 | 2.6458 | 2.687 |
| P48S21-144 | P48A21-144 | 144 | 3.0000 | 3.041 |
| P48S21-156 | P48A21-156 | 156 | 3.2500 | 3.291 |
| P48S21-180 | P48A21-180 | 180 | 3.7500 | 3.791 |
| P48S21-192 | P48A21-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 48 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



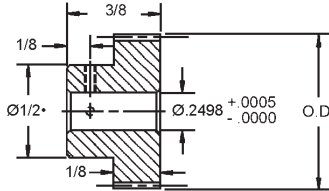
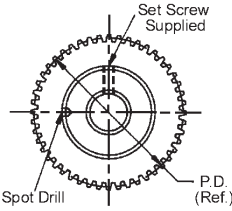
- For 24-26 teeth hub diameter equals .44
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P48S28-24 | P48A28-24 | 24• | .5000 | .541 |
| P48S28-25 | P48A28-25 | 25• | .5208 | .562 |
| P48S28-26 | P48A28-26 | 26• | .5416 | .583 |
| P48S28-27 | P48A28-27 | 27 | .5625 | .604 |
| P48S28-28 | P48A28-28 | 28 | .5833 | .625 |
| P48S28-29 | P48A28-29 | 29 | .6041 | .645 |
| P48S28-30 | P48A28-30 | 30 | .6250 | .666 |
| P48S28-32 | P48A28-32 | 32 | .6666 | .708 |
| P48S28-34 | P48A28-34 | 34 | .7083 | .750 |
| P48S28-36 | P48A28-36 | 36 | .7500 | .791 |
| P48S28-40 | P48A28-40 | 40 | .8333 | .875 |
| P48S28-42 | P48A28-42 | 42 | .8750 | .916 |
| P48S28-45 | P48A28-45 | 45 | .9375 | .979 |
| P48S28-48 | P48A28-48 | 48 | 1.0000 | 1.041 |
| P48S28-50 | P48A28-50 | 50 | 1.0416 | 1.083 |
| P48S28-55 | P48A28-55 | 55 | 1.1458 | 1.187 |
| P48S28-56 | P48A28-56 | 56 | 1.1666 | 1.208 |
| P48S28-60 | P48A28-60 | 60 | 1.2500 | 1.291 |
| P48S28-64 | P48A28-64 | 64 | 1.3333 | 1.375 |
| P48S28-65 | P48A28-65 | 65 | 1.3541 | 1.395 |
| P48S28-70 | P48A28-70 | 70 | 1.4583 | 1.500 |
| P48S28-72 | P48A28-72 | 72 | 1.5000 | 1.541 |
| P48S28-75 | P48A28-75 | 75 | 1.5625 | 1.604 |
| P48S28-80 | P48A28-80 | 80 | 1.6666 | 1.708 |
| P48S28-84 | P48A28-84 | 84 | 1.7500 | 1.791 |
| P48S28-85 | P48A28-85 | 85 | 1.7708 | 1.812 |
| P48S28-90 | P48A28-90 | 90 | 1.8750 | 1.916 |
| P48S28-95 | P48A28-95 | 95 | 1.9791 | 2.020 |
| P48S28-96 | P48A28-96 | 96 | 2.0000 | 2.041 |
| P48S28-100 | P48A28-100 | 100 | 2.0833 | 2.125 |
| P48S28-105 | P48A28-105 | 105 | 2.1875 | 2.229 |
| P48S28-108 | P48A28-108 | 108 | 2.2500 | 2.291 |
| P48S28-110 | P48A28-110 | 110 | 2.2916 | 2.333 |
| P48S28-120 | P48A28-120 | 120 | 2.5000 | 2.541 |
| P48S28-128 | P48A28-128 | 128 | 2.6666 | 2.708 |
| P48S28-168 | P48A28-168 | 168 | 3.5000 | 3.541 |
| P48S28-192 | P48A28-192 | 192 | 4.0000 | 4.041 |
| P48S28-198 | P48A28-198 | 198 | 4.1250 | 4.166 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 48 | PIN HUB | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



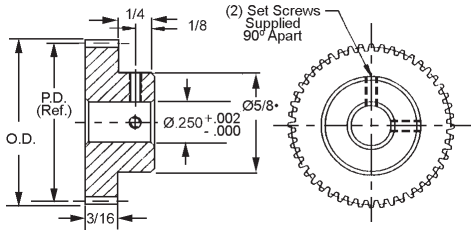
- For 24-26 teeth hub diameter equals .44
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P48S26-24 | P48A26-24 | 24• | .5000 | .541 |
| P48S26-25 | P48A26-25 | 25• | .5208 | .562 |
| P48S26-26 | P48A26-26 | 26• | .5416 | .583 |
| P48S26-28 | P48A26-28 | 28 | .5833 | .625 |
| P48S26-30 | P48A26-30 | 30 | .6250 | .666 |
| P48S26-32 | P48A26-32 | 32 | .6666 | .708 |
| P48S26-35 | P48A26-35 | 35 | .7291 | .770 |
| P48S26-36 | P48A26-36 | 36 | .7500 | .791 |
| P48S26-40 | P48A26-40 | 40 | .8333 | .875 |
| P48S26-42 | P48A26-42 | 42 | .8750 | .916 |
| P48S26-44 | P48A26-44 | 44 | .9166 | .958 |
| P48S26-45 | P48A26-45 | 45 | .9375 | .979 |
| P48S26-46 | P48A26-46 | 46 | .9583 | 1.000 |
| P48S26-48 | P48A26-48 | 48 | 1.0000 | 1.041 |
| P48S26-50 | P48A26-50 | 50 | 1.0416 | 1.083 |
| P48S26-54 | P48A26-54 | 54 | 1.1250 | 1.166 |
| P48S26-55 | P48A26-55 | 55 | 1.1458 | 1.187 |
| P48S26-56 | P48A26-56 | 56 | 1.1666 | 1.208 |
| P48S26-60 | P48A26-60 | 60 | 1.2500 | 1.291 |
| P48S26-64 | P48A26-64 | 64 | 1.3333 | 1.375 |
| P48S26-65 | P48A26-65 | 65 | 1.3541 | 1.395 |
| P48S26-70 | P48A26-70 | 70 | 1.4583 | 1.500 |
| P48S26-72 | P48A26-72 | 72 | 1.5000 | 1.541 |
| P48S26-75 | P48A26-75 | 75 | 1.5625 | 1.604 |
| P48S26-78 | P48A26-78 | 78 | 1.6250 | 1.666 |
| P48S26-80 | P48A26-80 | 80 | 1.6666 | 1.708 |
| P48S26-84 | P48A26-84 | 84 | 1.7500 | 1.791 |
| P48S26-85 | P48A26-85 | 85 | 1.7708 | 1.812 |
| P48S26-90 | P48A26-90 | 90 | 1.8750 | 1.916 |
| P48S26-96 | P48A26-96 | 96 | 2.0000 | 2.041 |
| P48S26-100 | P48A26-100 | 100 | 2.0833 | 2.125 |
| P48S26-105 | P48A26-105 | 105 | 2.1875 | 2.229 |
| P48S26-108 | P48A26-108 | 108 | 2.2500 | 2.291 |
| P48S26-110 | P48A26-110 | 110 | 2.2916 | 2.333 |
| P48S26-120 | P48A26-120 | 120 | 2.5000 | 2.541 |
| P48S26-126 | P48A26-126 | 126 | 2.6250 | 2.666 |
| P48S26-132 | P48A26-132 | 132 | 2.7500 | 2.791 |
| P48S26-140 | P48A26-140 | 140 | 2.9166 | 2.958 |
| P48S26-144 | P48A26-144 | 144 | 3.0000 | 3.041 |
| P48S26-145 | P48A26-145 | 145 | 3.0208 | 3.062 |
| P48S26-150 | P48A26-150 | 150 | 3.1250 | 3.166 |
| P48S26-156 | P48A26-156 | 156 | 3.2500 | 3.291 |
| P48S26-160 | P48A26-160 | 160 | 3.3333 | 3.375 |
| P48S26-168 | P48A26-168 | 168 | 3.5000 | 3.541 |
| P48S26-180 | P48A26-180 | 180 | 3.7500 | 3.791 |
| P48S26-192 | P48A26-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|-------------------|--------------|----------------|
| 48 | PIN HUB | 1/4" | 3/16" | ALUMINUM ANODIZED | 8 | 20° |



Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

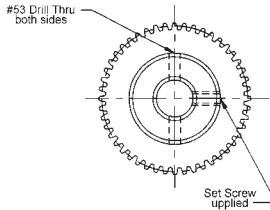
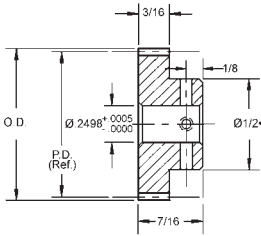
- For tooth counts 22-32 new hub diameter is .40.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P48A63-22 | 22• | .4583 | .500 |
| P48A63-24 | 24• | .5000 | .541 |
| P48A63-28 | 28• | .5833 | .625 |
| P48A63-30 | 30• | .6250 | .666 |
| P48A63-36 | 36 | .7500 | .79 |
| P48A63-40 | 40 | .8333 | .875 |
| P48A63-46 | 46 | .9583 | 1.000 |
| P48A63-48 | 48 | 1.0000 | 1.041 |
| P48A63-60 | 60 | 1.2500 | 1.291 |
| P48A63-70 | 70 | 1.4583 | 1.500 |
| P48A63-72 | 72 | 1.5000 | 1.541 |
| P48A63-80 | 80 | 1.6666 | 1.708 |
| P48A63-90 | 90 | 1.8750 | 1.916 |
| P48A63-96 | 96 | 2.0000 | 2.041 |
| P48A63-100 | 100 | 2.0833 | 2.125 |
| P48A63-110 | 110 | 2.2916 | 2.333 |
| P48A63-120 | 120 | 2.5000 | 2.541 |
| P48A63-132 | 132 | 2.7500 | 2.791 |
| P48A63-144 | 144 | 3.0000 | 3.041 |
| P48A63-150 | 150 | 3.1250 | 3.166 |
| P48A63-168 | 168 | 3.5000 | 3.541 |
| P48A63-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

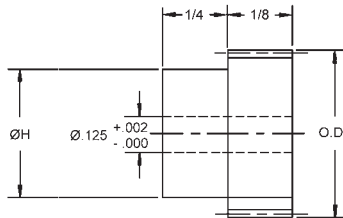
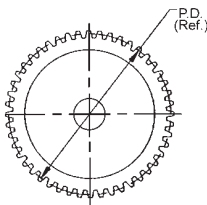
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|------------------------------------|--------------|----------------|
| 48 | PIN HUB | 1/4" | 3/16" | 17-4 PH STAINLESS STEEL RC26-32 | 10 | 20° |



- For 24-26 teeth hub diameter equals .44
- Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P48PH28-24 | 24* | .5000 | .542 |
| P48PH28-25 | 25* | .5208 | .563 |
| P48PH28-26 | 26* | .5416 | .583 |
| P48PH28-27 | 27 | .5625 | .604 |
| P48PH28-28 | 28 | .5833 | .625 |
| P48PH28-29 | 29 | .6041 | .646 |
| P48PH28-30 | 30 | .6250 | .667 |
| P48PH28-32 | 32 | .6666 | .708 |
| P48PH28-36 | 36 | .7500 | .792 |
| P48PH28-40 | 40 | .8333 | .875 |
| P48PH28-42 | 42 | .8750 | .917 |
| P48PH28-48 | 48 | 1.0000 | 1.042 |
| P48PH28-50 | 50 | 1.0416 | 1.083 |

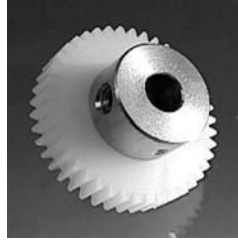
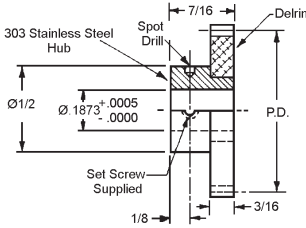
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|---|--------------|----------------|
| 48 | PIN HUB | 1/8" | COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM OR BRASS ALLOY 360 | 10 | 20° |



| COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | H |
|--|---------------------------------------|-----------------|---------------|-----------------|------|
| PX48S-14 | PX48B-14 | 14 | .292 | .333 | .229 |
| PX48S-15 | PX48B-15 | 15 | .312 | .353 | .250 |
| PX48S-16 | PX48B-16 | 16 | .333 | .375 | .271 |
| PX48S-18 | PX48B-18 | 18 | .375 | .417 | .312 |
| PX48S-24 | PX48B-24 | 24 | .500 | .542 | .437 |
| PX48S-32 | PX48B-32 | 32 | .666 | .708 | .604 |
| - | PX48B-36 | 36 | .750 | .792 | .687 |
| - | PX48B-40 | 40 | .833 | .875 | .770 |

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---------------------------------------|--------------|----------------|
| 48 | PIN HUB | 3/16" | 3/16" | DELRIN WITH STAINLESS STEEL HUB | 10 | 20° |



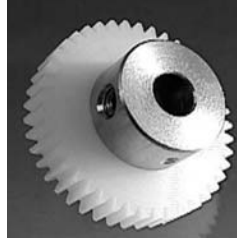
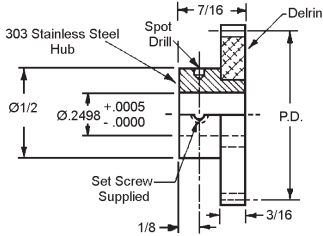
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|--------------|------------|--------------|
| P48D21X-28 | 28 | .5833 | .625 |
| P48D21X-29 | 29 | .6041 | .645 |
| P48D21X-30 | 30 | .6250 | .666 |
| P48D21X-32 | 32 | .6666 | .708 |
| P48D21X-34 | 34 | .7083 | .750 |
| P48D21X-36 | 36 | .7500 | .791 |
| P48D21X-38 | 38 | .7916 | .833 |
| P48D21X-40 | 40 | .8333 | .875 |
| P48D21X-42 | 42 | .8750 | .916 |
| P48D21X-44 | 44 | .9166 | .958 |
| P48D21X-46 | 46 | .9583 | 1.000 |
| P48D21X-48 | 48 | 1.0000 | 1.041 |
| P48D21X-50 | 50 | 1.0416 | 1.083 |
| P48D21X-55 | 55 | 1.1458 | 1.187 |
| P48D21X-56 | 56 | 1.1666 | 1.208 |
| P48D21X-60 | 60 | 1.2500 | 1.291 |
| P48D21X-64 | 64 | 1.3333 | 1.375 |
| P48D21X-68 | 68 | 1.4166 | 1.458 |
| P48D21X-72 | 72 | 1.5000 | 1.541 |
| P48D21X-75 | 75 | 1.5625 | 1.604 |
| P48D21X-80 | 80 | 1.6666 | 1.708 |
| P48D21X-84 | 84 | 1.7500 | 1.791 |
| P48D21X-90 | 90 | 1.8750 | 1.916 |
| P48D21X-92 | 92 | 1.9166 | 1.958 |
| P48D21X-96 | 96 | 2.0000 | 2.041 |
| P48D21X-100 | 100 | 2.0833 | 2.125 |
| P48D21X-110 | 110 | 2.2916 | 2.333 |
| P48D21X-120 | 120 | 2.5000 | 2.541 |
| P48D21X-132 | 132 | 2.7500 | 2.791 |
| P48D21X-138 | 138 | 2.8750 | 2.916 |
| P48D21X-144 | 144 | 3.0000 | 3.041 |
| P48D21X-156 | 156 | 3.2500 | 3.291 |
| P48D21X-168 | 168 | 3.5000 | 3.541 |
| P48D21X-180 | 180 | 3.7500 | 3.791 |
| P48D21X-186 | 186 | 3.8750 | 3.916 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---------------------------------------|--------------|----------------|
| 48 | PIN HUB | 1/4" | 3/16" | DELRIN WITH STAINLESS STEEL HUB | 10 | 20° |



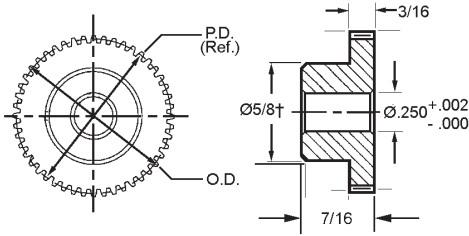
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|--------------|------------|--------------|
| P48D28X-28 | 28 | .5833 | .625 |
| P48D28X-29 | 29 | .6041 | .645 |
| P48D28X-30 | 30 | .6250 | .666 |
| P48D28X-32 | 32 | .6666 | .708 |
| P48D28X-34 | 34 | .7083 | .750 |
| P48D28X-36 | 36 | .7500 | .791 |
| P48D28X-38 | 38 | .7916 | .833 |
| P48D28X-40 | 40 | .8333 | .875 |
| P48D28X-42 | 42 | .8750 | .916 |
| P48D28X-44 | 44 | .9166 | .958 |
| P48D28X-46 | 46 | .9583 | 1.000 |
| P48D28X-48 | 48 | 1.0000 | 1.041 |
| P48D28X-50 | 50 | 1.0416 | 1.083 |
| P48D28X-55 | 55 | 1.1458 | 1.187 |
| P48D28X-56 | 56 | 1.1666 | 1.208 |
| P48D28X-60 | 60 | 1.2500 | 1.291 |
| P48D28X-64 | 64 | 1.3333 | 1.375 |
| P48D28X-68 | 68 | 1.4166 | 1.458 |
| P48D28X-72 | 72 | 1.5000 | 1.541 |
| P48D28X-75 | 75 | 1.5625 | 1.604 |
| P48D28X-80 | 80 | 1.6666 | 1.708 |
| P48D28X-84 | 84 | 1.7500 | 1.791 |
| P48D28X-90 | 90 | 1.8750 | 1.916 |
| P48D28X-92 | 92 | 1.9166 | 1.958 |
| P48D28X-96 | 96 | 2.0000 | 2.041 |
| P48D28X-100 | 100 | 2.0833 | 2.125 |
| P48D28X-110 | 110 | 2.2916 | 2.333 |
| P48D28X-120 | 120 | 2.5000 | 2.541 |
| P48D28X-132 | 132 | 2.7500 | 2.791 |
| P48D28X-138 | 138 | 2.8750 | 2.916 |
| P48D28X-144 | 144 | 3.0000 | 3.041 |
| P48D28X-156 | 156 | 3.2500 | 3.291 |
| P48D28X-168 | 168 | 3.5000 | 3.541 |
| P48D28X-180 | 180 | 3.7500 | 3.791 |
| P48D28X-186 | 186 | 3.8750 | 3.916 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESS. ANGLE |
|-------|---------|------|-------|---------------|--------------|--------------|
| 48 | PIN HUB | 1/4" | 3/16" | MOLDED ACETAL | 5 | 20° |

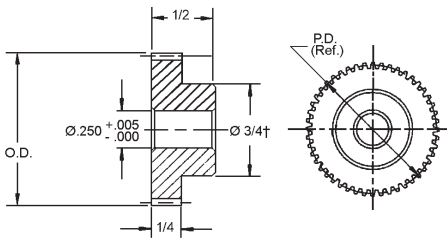


† Teeth runout on hub.

Available on request, other bore sizes and numbers of teeth on request.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P48D4M-28 | 28† | .5833 | .63 |
| P48D4M-30 | 30† | .6250 | .66 |
| P48D4M-36 | 36 | .7500 | .79 |
| P48D4M-40 | 40 | .8333 | .87 |
| P48D4M-42 | 42 | .8750 | .92 |
| P48D4M-48 | 48 | 1.0000 | 1.04 |
| P48D4M-50 | 50 | 1.0416 | 1.08 |
| P48D4M-60 | 60 | 1.2500 | 1.29 |
| P48D4M-70 | 70 | 1.4583 | 1.50 |
| P48D4M-72 | 72 | 1.5000 | 1.54 |
| P48D4M-80 | 80 | 1.6666 | 1.71 |
| P48D4M-84 | 84 | 1.7500 | 1.79 |
| P48D4M-90 | 90 | 1.8750 | 1.92 |
| P48D4M-96 | 96 | 2.0000 | 2.04 |
| P48D4M-100 | 100 | 2.0833 | 2.12 |
| P48D4M-108 | 108 | 2.2500 | 2.29 |
| P48D4M-120 | 120 | 2.5000 | 2.54 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 48 | PIN HUB | 1/4" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER, GREEN | 8 | 20° |



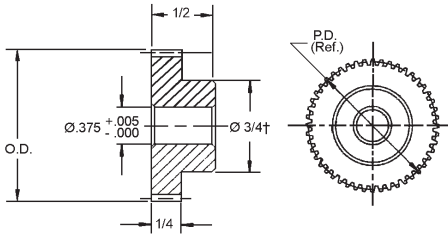
† Teeth runout on hub.

Available on request, other numbers of teeth.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P48U66-24 | 24† | .5000 | .541 |
| P48U66-28 | 28† | .5833 | .625 |
| P48U66-30 | 30† | .6250 | .666 |
| P48U66-36 | 36† | .7500 | .791 |
| P48U66-42 | 42 | .8750 | .917 |
| P48U66-48 | 48 | 1.0000 | 1.041 |
| P48U66-60 | 60 | 1.2500 | 1.291 |
| P48U66-72 | 72 | 1.5000 | 1.541 |
| P48U66-84 | 84 | 1.1750 | 1.791 |
| P48U66-96 | 96 | 2.0000 | 2.041 |

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--|--------------|----------------|
| 48 | PIN HUB | 3/8" | 1/4" | CAST POLYURETHANE GRAPHITE IMPREGNATED 70D DUROMETER | 8 | 20° |



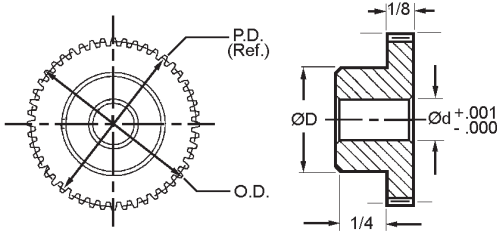
† Teeth runout on hub.
Available on request, other numbers of teeth.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| P48U67-24 | 24† | .5000 | .541 |
| P48U67-28 | 28† | .5833 | .625 |
| P48U67-30 | 30† | .6250 | .666 |
| P48U67-36 | 36† | .7500 | .791 |
| P48U67-42 | 42 | .8750 | .917 |
| P48U67-48 | 48 | 1.0000 | 1.041 |
| P48U67-60 | 60 | 1.2500 | 1.291 |
| P48U67-72 | 72 | 1.5000 | 1.541 |
| P48U67-84 | 84 | 1.1750 | 1.791 |
| P48U67-96 | 96 | 2.0000 | 2.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|---------------|------|---------------|--------------|-------------|
| 48 | PIN HUB | 5/32" TO 1/4" | 1/8" | MOLDED DELRIN | 5 | 20° |



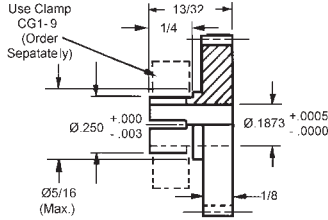
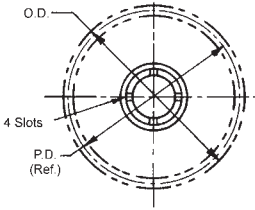
| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | Ød | ØD |
|------------|--------------|------------|--------------|------|-------|
| P48D4P-18 | 18 | .375 | .417 | 5/32 | 5/16 |
| P48D4P-19 | 19 | .396 | .438 | 5/32 | 5/16 |
| P48D4P-20 | 20 | .417 | .458 | 5/32 | 11/32 |
| P48D4P-21 | 21 | .438 | .479 | 5/32 | 11/32 |
| P48D4P-22 | 22 | .458 | .500 | 5/32 | 3/8 |
| P48D4P-23 | 23 | .479 | .521 | 5/32 | 3/8 |
| P48D4P-24 | 24 | .500 | .542 | 5/32 | 13/32 |
| P48D4P-25 | 25 | .521 | .562 | 5/32 | 13/32 |
| P48D4P-26 | 26 | .542 | .583 | 5/32 | 29/64 |
| P48D4P-27 | 27 | .562 | .604 | 5/32 | 29/64 |
| P48D4P-28 | 28 | .583 | .625 | 5/32 | 31/64 |
| P48D4P-29 | 29 | .604 | .646 | 5/32 | 31/64 |
| P48D4P-30 | 30 | .625 | .667 | 5/32 | 1/2 |
| P48D4P-31 | 31 | .646 | .688 | 3/16 | 35/64 |
| P48D4P-32 | 32 | .667 | .708 | 3/16 | 35/64 |
| P48D4P-33 | 33 | .688 | .729 | 3/16 | 35/64 |
| P48D4P-34 | 34 | .708 | .750 | 3/16 | 35/64 |
| P48D4P-35 | 35 | .729 | .771 | 3/16 | 35/64 |
| P48D4P-36 | 36 | .750 | .792 | 3/16 | 35/64 |
| P48D4P-37 | 37 | .771 | .813 | 3/16 | 35/64 |
| P48D4P-38 | 38 | .792 | .833 | 3/16 | 35/64 |
| P48D4P-39 | 39 | .813 | .854 | 3/16 | 35/64 |
| P48D4P-40 | 40 | .833 | .875 | 3/16 | 35/64 |
| P48D4P-42 | 42 | .875 | .917 | 3/16 | 35/64 |
| P48D4P-44 | 44 | .917 | .958 | 3/16 | 35/64 |
| P48D4P-45 | 45 | .938 | .979 | 3/16 | 35/64 |
| P48D4P-48 | 48 | 1.000 | 1.042 | 1/4 | 39/64 |
| P48D4P-52 | 52 | 1.083 | 1.125 | 1/4 | 39/64 |
| P48D4P-54 | 54 | 1.125 | 1.168 | 1/4 | 39/64 |
| P48D4P-56 | 56 | 1.168 | 1.208 | 1/4 | 39/64 |
| P48D4P-60 | 60 | 1.250 | 1.292 | 1/4 | 39/64 |
| P48D4P-64 | 64 | 1.333 | 1.375 | 1/4 | 39/64 |
| P48D4P-66 | 66 | 1.375 | 1.416 | 1/4 | 39/64 |
| P48D4P-72 | 72 | 1.500 | 1.542 | 1/4 | 39/64 |
| P48D4P-80 | 80 | 1.667 | 1.708 | 1/4 | 39/64 |
| P48D4P-84 | 84 | 1.750 | 1.792 | 1/4 | 39/64 |
| P48D4P-96 | 96 | 2.000 | 2.042 | 1/4 | 39/64 |
| P48D4P-100 | 100 | 2.083 | 2.125 | 1/4 | 39/64 |
| P48D4P-108 | 108 | 2.250 | 2.292 | 1/4 | 39/64 |
| P48D4P-120 | 120 | 2.500 | 2.542 | 1/4 | 39/64 |

Some molded gears may have webs.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|-------|------|---|--------------|----------------|
| 48 | CLAMP STYLE | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



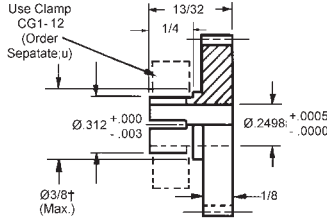
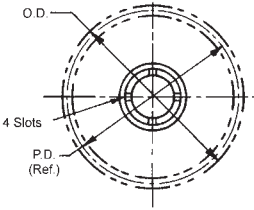
Available on request, other numbers of teeth,
 Agma Quality 12 and 14-1/2° Pressure Angle.
 X in part number indicates part may be supplied
 in two piece construction with stainless steel hub
 (some dimensions may vary).

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| C48S14-20 | C48A14-20 | 20 | .4166 | .458 |
| C48S14-24 | C48A14-24 | 24 | .5000 | .541 |
| C48S14-28 | C48A14-28 | 28 | .5833 | .625 |
| C48S14-30 | C48A14-30 | 30 | .6250 | .666 |
| C48S14-32 | C48A14-32 | 32 | .6666 | .708 |
| C48S14-40 | C48A14-40 | 40 | .8333 | .875 |
| C48S14-46 | C48A14-46 | 46 | .9583 | 1.000 |
| C48S14-48 | C48A14-48 | 48 | 1.0000 | 1.041 |
| C48S14-56 | C48A14-56 | 56 | 1.1666 | 1.208 |
| C48S14-60 | C48A14-60 | 60 | 1.2500 | 1.291 |
| C48S14-66 | C48A14-66 | 66 | 1.3750 | 1.416 |
| C48S14-70 | C48A14-70 | 70 | 1.4583 | 1.500 |
| C48S14-72 | C48A14-72 | 72 | 1.5000 | 1.541 |
| C48S14-84 | C48A14-84 | 84 | 1.7500 | 1.791 |
| C48S14-90 | C48A14-90 | 90 | 1.8750 | 1.916 |
| C48S14-96 | C48A14-96 | 96 | 2.0000 | 2.041 |
| C48S14-100 | C48A14-100 | 100 | 2.0833 | 2.125 |
| C48S14-102 | C48A14-102 | 102 | 2.1250 | 2.166 |
| C48S14-105 | C48A14-105 | 105 | 2.1875 | 2.229 |
| C48S14-108 | C48A14-108 | 108 | 2.2500 | 2.291 |
| C48S14-110 | C48A14-110 | 110 | 2.2916 | 2.333 |
| C48S14-114 | C48A14-114 | 114 | 2.3750 | 2.416 |
| C48S15X-120 | C48A15X-120 | 120 | 2.5000 | 2.541 |
| C48S15X-126 | C48A15X-126 | 126 | 2.6250 | 2.666 |
| C48S15X-132 | C48A15X-132 | 132 | 2.7500 | 2.791 |
| C48S15X-138 | C48A15X-138 | 138 | 2.8750 | 2.916 |
| C48S15X-140 | C48A15X-140 | 140 | 2.9166 | 2.958 |
| C48S15X-144 | C48A15X-144 | 144 | 3.0000 | 3.041 |
| C48S15X-150 | C48A15X-150 | 150 | 3.1250 | 3.166 |
| C48S15X-156 | C48A15X-156 | 156 | 3.2500 | 3.291 |
| C48S15X-160 | C48A15X-160 | 160 | 3.3333 | 3.375 |
| C48S15X-168 | C48A15X-168 | 168 | 3.5000 | 3.541 |
| C48S15X-170 | C48A15X-170 | 170 | 3.5416 | 3.583 |
| C48S15X-180 | C48A15X-180 | 180 | 3.7500 | 3.791 |
| C48S15X-190 | C48A15X-190 | 190 | 3.9583 | 4.000 |
| C48S15X-192 | C48A15X-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|------|---|--------------|----------------|
| 48 | CLAMP STYLE | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



† Teeth may runout on flange diameter.

Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

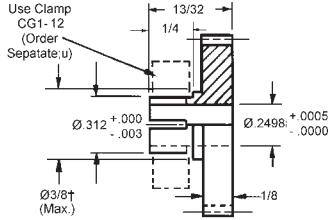
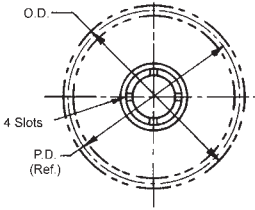
X in part number indicates part may be supplied in two piece construction with stainless steel hub (some dimensions may vary).

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| C48S18-20 | C48A18-20 | 20† | .4166 | .458 |
| C48S18-21 | C48A18-21 | 21 | .4375 | .479 |
| C48S18-22 | C48A18-22 | 22 | .4583 | .500 |
| C48S18-23 | C48A18-23 | 23 | .4791 | .520 |
| C48S18-24 | C48A18-24 | 24 | .5000 | .541 |
| C48S18-25 | C48A18-25 | 25 | .5208 | .562 |
| C48S18-26 | C48A18-26 | 26 | .5416 | .583 |
| C48S18-27 | C48A18-27 | 27 | .5625 | .604 |
| C48S18-28 | C48A18-28 | 28 | .5833 | .625 |
| C48S18-29 | C48A18-29 | 29 | .6041 | .645 |
| C48S18-30 | C48A18-30 | 30 | .6250 | .666 |
| C48S18-32 | C48A18-32 | 32 | .6666 | .708 |
| C48S18-34 | C48A18-34 | 34 | .7083 | .750 |
| C48S18-35 | C48A18-35 | 35 | .7291 | .770 |
| C48S18-36 | C48A18-36 | 36 | .7500 | .791 |
| C48S18-38 | C48A18-38 | 38 | .7916 | .833 |
| C48S18-40 | C48A18-40 | 40 | .8333 | .875 |
| C48S18-42 | C48A18-42 | 42 | .8750 | .916 |
| C48S18-44 | C48A18-44 | 44 | .9166 | .958 |
| C48S18-45 | C48A18-45 | 45 | .9375 | .979 |
| C48S18-46 | C48A18-46 | 46 | .9583 | 1.000 |
| C48S18-47 | C48A18-47 | 47 | .9791 | 1.020 |
| C48S18-48 | C48A18-48 | 48 | 1.0000 | 1.041 |
| C48S18-50 | C48A18-50 | 50 | 1.0416 | 1.083 |
| C48S18-54 | C48A18-54 | 54 | 1.1250 | 1.166 |
| C48S18-55 | C48A18-55 | 55 | 1.1458 | 1.187 |
| C48S18-56 | C48A18-56 | 56 | 1.1666 | 1.208 |
| C48S18-60 | C48A18-60 | 60 | 1.2500 | 1.291 |
| C48S18-64 | C48A18-64 | 64 | 1.3333 | 1.375 |
| C48S18-66 | C48A18-66 | 66 | 1.3750 | 1.416 |
| C48S18-68 | C48A18-68 | 68 | 1.4166 | 1.458 |
| C48S18-70 | C48A18-70 | 70 | 1.4583 | 1.500 |
| C48S18-72 | C48A18-72 | 72 | 1.5000 | 1.541 |
| C48S18-75 | C48A18-75 | 75 | 1.5625 | 1.604 |
| C48S18-78 | C48A18-78 | 78 | 1.6250 | 1.666 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|------|---|--------------|----------------|
| 48 | CLAMP STYLE | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



† Teeth may runout on flange diameter.

Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

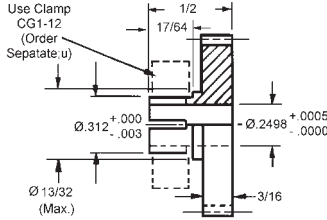
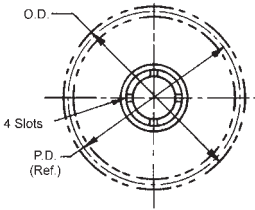
X in part number indicates part may be supplied in two piece construction with stainless steel hub (some dimensions may vary).

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| C48S18-80 | C48A18-80 | 80 | 1.6666 | 1.708 |
| C48S18-81 | C48A18-81 | 81 | 1.6875 | 1.729 |
| C48S18-84 | C48A18-84 | 84 | 1.7500 | 1.791 |
| C48S18-85 | C48A18-85 | 85 | 1.7708 | 1.812 |
| C48S18-88 | C48A18-88 | 88 | 1.8333 | 1.875 |
| C48S18-90 | C48A18-90 | 90 | 1.8750 | 1.916 |
| C48S18-91 | C48A18-91 | 91 | 1.8958 | 1.937 |
| C48S18-92 | C48A18-92 | 92 | 1.9166 | 1.958 |
| C48S18-93 | C48A18-93 | 93 | 1.9375 | 1.979 |
| C48S18-96 | C48A18-96 | 96 | 2.0000 | 2.041 |
| C48S18-100 | C48A18-100 | 100 | 2.0833 | 2.125 |
| C48S18-102 | C48A18-102 | 102 | 2.1250 | 2.166 |
| C48S18-104 | C48A18-104 | 104 | 2.1666 | 2.208 |
| C48S18-105 | C48A18-105 | 105 | 2.1875 | 2.229 |
| C48S18-108 | C48A18-108 | 108 | 2.2500 | 2.291 |
| C48S18-112 | C48A18-112 | 112 | 2.3333 | 2.375 |
| C48S18-114 | C48A18-114 | 114 | 2.3750 | 2.416 |
| C48S18-120 | C48A18-120 | 120 | 2.5000 | 2.541 |
| C48S18-126 | C48A18-126 | 126 | 2.6250 | 2.666 |
| C48S18-127 | C48A18-127 | 127 | 2.6458 | 2.687 |
| C48S18-128 | C48A18-128 | 128 | 2.6666 | 2.708 |
| C48S18-132 | C48A18-132 | 132 | 2.7500 | 2.791 |
| C48S18-136 | C48A18-136 | 136 | 2.8333 | 2.875 |
| C48S18-138 | C48A18-138 | 138 | 2.8750 | 2.916 |
| C48S18-144 | C48A18-144 | 144 | 3.0000 | 3.041 |
| C48S18-150 | C48A18-150 | 150 | 3.1250 | 3.166 |
| C48S18-152 | C48A18-152 | 152 | 3.1666 | 3.208 |
| C48S18-156 | C48A18-156 | 156 | 3.2500 | 3.291 |
| C48S18-162 | C48A18-162 | 162 | 3.3750 | 3.416 |
| C48S18-168 | C48A18-168 | 168 | 3.5000 | 3.541 |
| C48S18-171 | C48A18-171 | 171 | 3.5625 | 3.604 |
| C48S18-175 | C48A18-175 | 175 | 3.6458 | 3.687 |
| C48S18-180 | C48A18-180 | 180 | 3.7500 | 3.791 |
| C48S18-186 | C48A18-186 | 186 | 3.8750 | 3.916 |
| C48S18-192 | C48A18-192 | 192 | 4.0000 | 4.041 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|-------|---------------------|--------------|----------------|
| 48 | CLAMP STYLE | 1/4" | 3/16" | 303 STAINLESS STEEL | 10 | 20° |



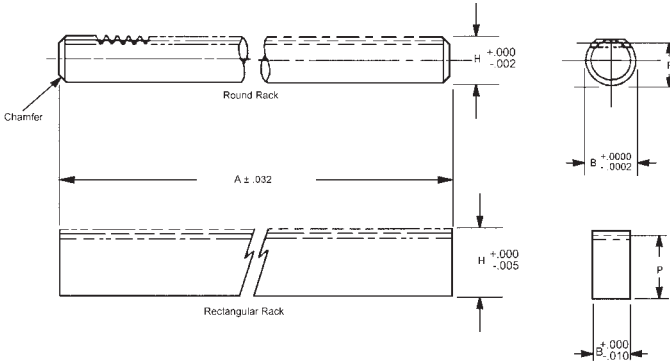
Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| C48S20-23 | 23 | .4791 | .520 |
| C48S20-24 | 24 | .5000 | .541 |
| C48S20-25 | 25 | .5208 | .562 |
| C48S20-28 | 28 | .5833 | .625 |
| C48S20-30 | 30 | .6250 | .666 |
| C48S20-32 | 32 | .6666 | .708 |
| C48S20-36 | 36 | .7500 | .791 |
| C48S20-40 | 40 | .8333 | .875 |
| C48S20-42 | 42 | .8750 | .916 |
| C48S20-45 | 45 | .9375 | .979 |
| C48S20-48 | 48 | 1.0000 | 1.041 |
| C48S20-50 | 50 | 1.0416 | 1.083 |
| C48S20-54 | 54 | 1.1250 | 1.166 |
| C48S20-60 | 60 | 1.2500 | 1.291 |
| C48S20-70 | 70 | 1.4583 | 1.500 |
| C48S20-72 | 72 | 1.5000 | 1.541 |
| C48S20-75 | 75 | 1.5625 | 1.604 |
| C48S20-78 | 78 | 1.6250 | 1.666 |
| C48S20-80 | 80 | 1.6666 | 1.708 |
| C48S20-84 | 84 | 1.7500 | 1.791 |
| C48S20-88 | 88 | 1.8333 | 1.875 |
| C48S20-90 | 90 | 1.8750 | 1.916 |
| C48S20-96 | 96 | 2.0000 | 2.041 |
| C48S20-100 | 100 | 2.0833 | 2.125 |
| C48S20-108 | 108 | 2.2500 | 2.291 |
| C48S20-112 | 112 | 2.3333 | 2.375 |
| C48S20-120 | 120 | 2.5000 | 2.541 |
| C48S20-128 | 128 | 2.6666 | 2.708 |
| C48S20-132 | 132 | 2.7500 | 2.791 |
| C48S20-144 | 144 | 3.0000 | 3.041 |
| C48S20-150 | 150 | 3.1250 | 3.166 |
| C48S20-162 | 162 | 3.3750 | 3.416 |
| C48S20-168 | 168 | 3.5000 | 3.541 |
| C48S20-180 | 180 | 1.7500 | 1.791 |
| C48S20-192 | 192 | 4.0000 | 4.041 |
| C48S20-198 | 198 | 4.1250 | 4.066 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

GEAR RACKS

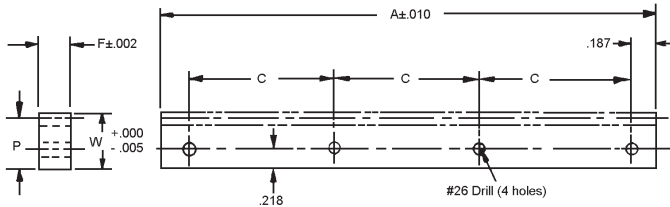
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 48 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-6 | ROUND | 48 | .1992 | .2497 | 18 | .220 | 10 |
| R2-12 | RECTANGULAR | 48 | .4592 | .230±.005 | 18 | .480 | 10 |

Available on request:
14 - 1/2° pressure angle,
special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 48 | RECTANGULAR | 416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

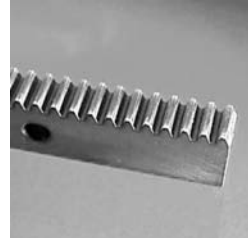
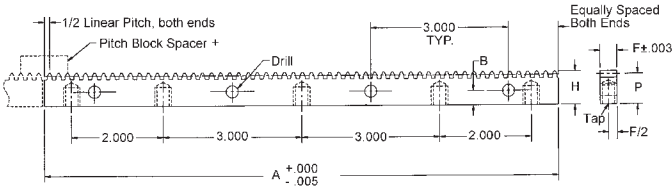


| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|---------------|----------|----------|------|------|-------|
| R4-11 | STAINLESS ST. | 9 | .4592 | .480 | .230 | 2.879 |
| R4-12 | ALUMINUM | | | | | |

Available on request: special,
modified and custom racks.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 48 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



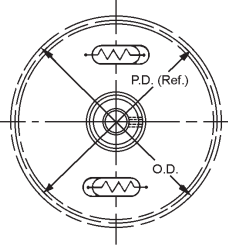
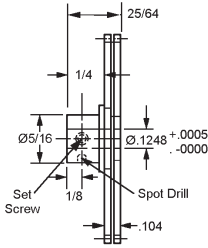
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | SPACER BLOCK | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 -.005 | F | B | DRILL | TAP |
|---------|-----------------|---------------------|------------------------|-------------------------------|-------|-----------------|-----------|-----------|---------------------|------|------|-------|-------------|
| R1-6-G1 | R1-6-SB | 10* | .0014 | .0005 | 48 | .0354 | 11.055 | .4542 | .475 | .230 | .218 | #26 | #6-32 x 1/4 |
| R3-4-G1 | R3-4-SB | 10* | .0014 | .0005 | 48 | .0654 | 11.055 | .4542 | .480 | .230 | .218 | #26 | #6-32 x 1/4 |

* Higher quality on request.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 48 | PIN HUB | 1/8" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP48SS-40 | AP48TS-40 | 40 | .8333 |
| AP48SS-42 | AP48TS-42 | 42 | .8750 |
| AP48SS-44 | AP48TS-44 | 44 | .9166 |
| AP48SS-46 | AP48TS-46 | 46 | .9583 |
| AP48SS-48 | AP48TS-48 | 48 | 1.0000 |
| AP48SS-50 | AP48TS-50 | 50 | 1.0416 |
| AP48SS-55 | AP48TS-55 | 55 | 1.1458 |
| AP48SS-56 | AP48TS-56 | 56 | 1.1666 |
| AP48SS-60 | AP48TS-60 | 60 | 1.2500 |
| AP48SS-64 | AP48TS-64 | 64 | 1.3333 |
| AP48S-65 | AP48T-65 | 65 | 1.3541 |
| AP48S-70 | AP48T-70 | 70 | 1.4583 |
| AP48S-72 | AP48T-72 | 72 | 1.5000 |
| AP48S-75 | AP48T-75 | 75 | 1.5625 |
| AP48S-80 | AP48T-80 | 80 | 1.6666 |
| AP48S-84 | AP48T-84 | 84 | 1.7500 |
| AP48S-85 | AP48T-85 | 85 | 1.7708 |
| AP48S-90 | AP48T-90 | 90 | 1.8750 |
| AP48S-95 | AP48T-95 | 95 | 1.9791 |
| AP48S-96 | AP48T-96 | 96 | 2.0000 |
| AP48S-100 | AP48T-100 | 100 | 2.0833 |
| AP48S-105 | AP48T-105 | 105 | 2.1875 |
| AP48S-110 | AP48T-110 | 110 | 2.2916 |
| AP48S-115 | AP48T-115 | 115 | 2.3958 |
| AP48S-120 | AP48T-120 | 120 | 2.5000 |
| AP48S-125 | AP48T-125 | 125 | 2.6041 |
| AP48S-130 | AP48T-130 | 130 | 2.7083 |
| AP48S-132 | AP48T-132 | 132 | 2.7500 |
| AP48S-140 | AP48T-140 | 140 | 2.9166 |
| AP48S-144 | AP48T-144 | 144 | 3.0000 |
| AP48S-150 | AP48T-150 | 150 | 3.1250 |

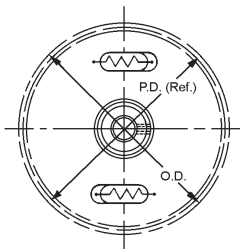
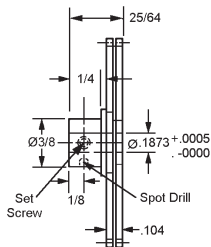
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|------|--|--------------|-------------|
| 48 | PIN HUB | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AP48US-46 | AP48VS-46 | 46 | .9583 |
| AP48US-48 | AP48VS-48 | 48 | 1.0000 |
| AP48US-50 | AP48VS-50 | 50 | 1.0416 |
| AP48US-55 | AP48VS-55 | 55 | 1.1458 |
| AP48US-56 | AP48VS-56 | 56 | 1.1666 |
| AP48US-60 | AP48VS-60 | 60 | 1.2500 |
| AP48US-64 | AP48VS-64 | 64 | 1.3333 |
| AP48U-65 | AP48V-65 | 65 | 1.3541 |
| AP48U-70 | AP48V-70 | 70 | 1.4583 |
| AP48U-72 | AP48V-72 | 72 | 1.5000 |
| AP48U-75 | AP48V-75 | 75 | 1.5625 |
| AP48U-80 | AP48V-80 | 80 | 1.6666 |
| AP48U-84 | AP48V-84 | 84 | 1.7500 |
| AP48U-85 | AP48V-85 | 85 | 1.7708 |
| AP48U-90 | AP48V-90 | 90 | 1.8750 |
| AP48U-95 | AP48V-95 | 95 | 1.9791 |
| AP48U-96 | AP48V-96 | 96 | 2.0000 |
| AP48U-100 | AP48V-100 | 100 | 2.0833 |
| AP48U-105 | AP48V-105 | 105 | 2.1875 |
| AP48U-110 | AP48V-110 | 110 | 2.2916 |
| AP48U-115 | AP48V-115 | 115 | 2.3958 |
| AP48U-120 | AP48V-120 | 120 | 2.5000 |
| AP48U-125 | AP48V-125 | 125 | 2.6041 |
| AP48U-130 | AP48V-130 | 130 | 2.7083 |
| AP48U-132 | AP48V-132 | 132 | 2.7500 |
| AP48U-140 | AP48V-140 | 140 | 2.9166 |
| AP48U-144 | AP48V-144 | 144 | 3.0000 |
| AP48U-150 | AP48V-150 | 150 | 3.1250 |

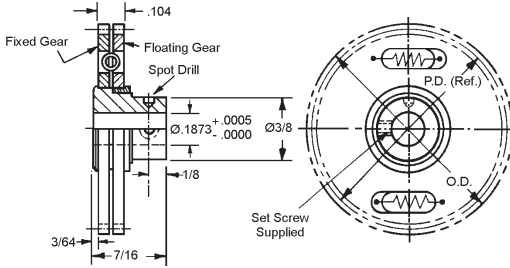
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|------|--|--------------|-------------|
| 48 | PIN HUB | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|---------------------------|-----------------------------|--------------|------------|--------------|--------------|
| AP48CS-28 | - | 28 | .5833 | .625 | SCISSOR |
| AP48CS-30 | - | 30 | .6250 | .666 | |
| AP48CS-32 | - | 32 | .6666 | .708 | |
| AP48CS-36 | AP48PS-36 | 36 | .7500 | .791 | |
| AP48CS-40 | AP48PS-40 | 40 | .8333 | .875 | COIL |
| AP48CS-44 | AP48PS-42 | 42 | .8750 | .916 | |
| AP48C-48 | AP48P-48 | 48 | 1.0000 | 1.041 | |
| AP48C-50 | AP48P-50 | 50 | 1.0416 | 1.083 | |
| AP48C-54 | AP48P-54 | 54 | 1.1250 | 1.166 | |
| AP48C-60 | AP48P-60 | 60 | 1.2500 | 1.291 | |
| AP48C-64 | AP48P-64 | 64 | 1.3333 | 1.375 | |
| AP48C-70 | AP48P-70 | 70 | 1.4583 | 1.500 | |
| AP48C-72 | AP48P-72 | 72 | 1.5000 | 1.541 | |
| AP48C-80 | AP48P-80 | 80 | 1.6666 | 1.708 | |
| AP48C-90 | AP48P-90 | 90 | 1.8750 | 1.916 | |
| AP48C-96 | AP48P-96 | 96 | 2.0000 | 2.041 | |
| AP48C-100 | AP48P-100 | 100 | 2.0833 | 2.125 | |
| AP48C-108 | AP48P-108 | 108 | 2.2500 | 2.291 | |
| AP48C-120 | AP48P-120 | 120 | 2.5000 | 2.541 | |
| AP48C-144 | AP48P-144 | 144 | 3.0000 | 3.041 | |

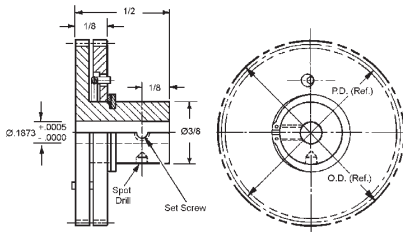
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14;
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|------|--|--------------|-------------|
| 48 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

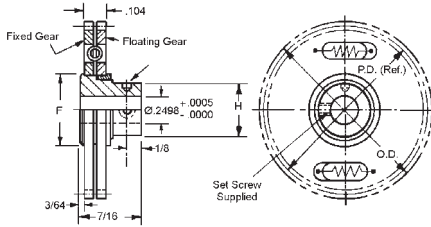


Hub Material:
303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|--------------|------------|--------------|
| AP48HS-30 | AP48JS-30 | 30 | .6250 | .666 |
| AP48HS-32 | AP48JS-32 | 32 | .6666 | .708 |
| AP48HS-36 | AP48JS-36 | 36 | .7500 | .792 |
| AP48HS-48 | AP48JS-48 | 48 | 1.0000 | 1.042 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 48 | PIN HUB | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel



| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE | H |
|---------------------------|-----------------------------|--------------|------------|--------------|--------------|------|
| AP48ES-28 | - | 28 | .5833 | .625 | SCISSOR | 3/8 |
| AP48ES-30 | - | 30 | .6250 | .666 | | |
| AP48ES-32 | - | 32 | .6666 | .708 | | |
| AP48ES-36 | AP48RS-36 | 36 | .7500 | .791 | | |
| AP48ES-40 | AP48RS-40 | 40 | .8333 | .875 | | |
| AP48ES-42 | AP48RS-42 | 42 | .8750 | .916 | | |
| AP48ES-45 | AP48RS-45 | 45 | .9375 | .979 | | |
| AP48E-48 | AP48R-48 | 48 | 1.0000 | 1.041 | | |
| AP48E-50 | AP48R-50 | 50 | 1.0416 | 1.083 | | |
| AP48E-54 | AP48R-54 | 54 | 1.1250 | 1.166 | | |
| AP48E-56 | AP48R-56 | 56 | 1.1666 | 1.208 | COIL | 7/16 |
| AP48E-60 | AP48R-60 | 60 | 1.2500 | 1.291 | | |
| AP48E-64 | AP48R-64 | 64 | 1.3333 | 1.375 | | |
| AP48E-65 | AP48R-65 | 65 | 1.3541 | 1.395 | | |
| AP48E-70 | AP48R-70 | 70 | 1.4583 | 1.500 | | |
| AP48E-72 | AP48R-72 | 72 | 1.5000 | 1.541 | | |
| AP48E-75 | AP48R-75 | 75 | 1.5625 | 1.604 | | |
| AP48E-78 | AP48R-78 | 78 | 1.6250 | 1.666 | | |
| AP48E-80 | AP48R-80 | 80 | 1.6666 | 1.708 | | |
| AP48E-90 | AP48R-90 | 90 | 1.8750 | 1.916 | | |
| AP48E-96 | AP48R-96 | 96 | 2.0000 | 2.041 | | |
| AP48E-100 | AP48R-100 | 100 | 2.0833 | 2.125 | | |
| AP48E-105 | AP48R-105 | 105 | 2.1875 | 2.229 | | |
| AP48E-108 | AP48R-108 | 108 | 2.2500 | 2.291 | | |
| AP48E-120 | AP48R-120 | 120 | 2.5000 | 2.541 | | |
| AP48E-144 | AP48R-144 | 144 | 3.0000 | 3.041 | | |

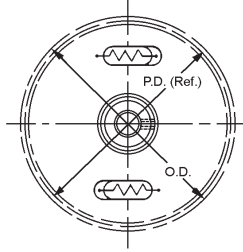
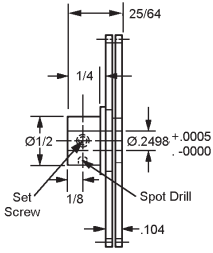
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 48 | PIN HUB | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP48WS-50 | AP48XS-50 | 50 | 1.0416 |
| AP48WS-55 | AP48XS-55 | 55 | 1.1458 |
| AP48WS-56 | AP48XS-56 | 56 | 1.1666 |
| AP48WS-60 | AP48XS-60 | 60 | 1.2500 |
| AP48WS-64 | AP48XS-64 | 64 | 1.3333 |
| AP48W-65 | AP48X-65 | 65 | 1.3541 |
| AP48W-70 | AP48X-70 | 70 | 1.4583 |
| AP48W-72 | AP48X-72 | 72 | 1.5000 |
| AP48W-75 | AP48X-75 | 75 | 1.5625 |
| AP48W-80 | AP48X-80 | 80 | 1.6666 |
| AP48W-84 | AP48X-84 | 84 | 1.7500 |
| AP48W-85 | AP48X-85 | 85 | 1.7708 |
| AP48W-90 | AP48X-90 | 90 | 1.8750 |
| AP48W-95 | AP48X-95 | 95 | 1.9791 |
| AP48W-96 | AP48X-96 | 96 | 2.0000 |
| AP48W-100 | AP48X-100 | 100 | 2.0833 |
| AP48W-105 | AP48X-105 | 105 | 2.1875 |
| AP48W-110 | AP48X-110 | 110 | 2.2916 |
| AP48W-115 | AP48X-115 | 115 | 2.3958 |
| AP48W-120 | AP48X-120 | 120 | 2.5000 |
| AP48W-125 | AP48X-125 | 125 | 2.6041 |
| AP48W-130 | AP48X-130 | 130 | 2.7083 |
| AP48W-132 | AP48X-132 | 132 | 2.7500 |
| AP48W-140 | AP48X-140 | 140 | 2.9166 |
| AP48W-144 | AP48X-144 | 144 | 3.0000 |
| AP48W-150 | AP48X-150 | 150 | 3.1250 |

Available on request:

Other numbers of teeth;

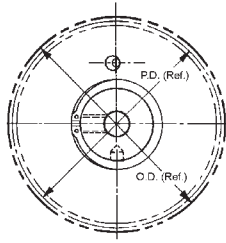
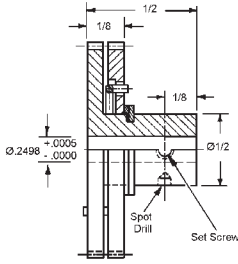
AGMA Quality 12 and 14 (some dimensions may vary);

14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 48 | PIN HUB | 1/4" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material:
303 Stainless Steel

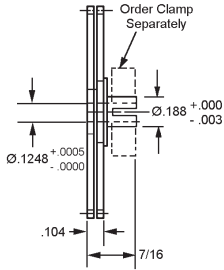
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-----------------|-------|---------------|-----------------|
| AP48KS-32 | AP48LS-32 | 32 | | .6666 | .708 |
| AP48KS-36 | AP48LS-36 | 36 | .2498 | .7500 | .792 |
| AP48KS-48 | AP48LS-48 | 48 | | 1.0000 | 1.042 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 48 | CLAMP STYLE | 1/8" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC48SS-40 | AC48TS-40 | 40 | .8333 |
| AC48SS-42 | AC48TS-42 | 42 | .8750 |
| AC48SS-44 | AC48TS-44 | 44 | .9166 |
| AC48SS-46 | AC48TS-46 | 46 | .9583 |
| AC48SS-48 | AC48TS-48 | 48 | 1.0000 |
| AC48SS-50 | AC48TS-50 | 50 | 1.0416 |
| AC48SS-55 | AC48TS-55 | 55 | 1.1458 |
| AC48SS-56 | AC48TS-56 | 56 | 1.1666 |
| AC48SS-60 | AC48TS-60 | 60 | 1.2500 |
| AC48SS-64 | AC48TS-64 | 64 | 1.3333 |
| AC48S-65 | AC48T-65 | 65 | 1.3541 |
| AC48S-70 | AC48T-70 | 70 | 1.4583 |
| AC48S-72 | AC48T-72 | 72 | 1.5000 |
| AC48S-75 | AC48T-75 | 75 | 1.5625 |
| AC48S-80 | AC48T-80 | 80 | 1.6666 |
| AC48S-84 | AC48T-84 | 84 | 1.7500 |
| AC48S-85 | AC48T-85 | 85 | 1.7708 |
| AC48S-90 | AC48T-90 | 90 | 1.8750 |
| AC48S-95 | AC48T-95 | 95 | 1.9791 |
| AC48S-96 | AC48T-96 | 96 | 2.0000 |
| AC48S-100 | AC48T-100 | 100 | 2.0833 |
| AC48S-105 | AC48T-105 | 105 | 2.1875 |
| AC48S-110 | AC48T-110 | 110 | 2.2916 |
| AC48S-115 | AC48T-115 | 115 | 2.3958 |
| AC48S-120 | AC48T-120 | 120 | 2.5000 |
| AC48S-125 | AC48T-125 | 125 | 2.6041 |
| AC48S-130 | AC48T-130 | 130 | 2.7083 |
| AC48S-132 | AC48T-132 | 132 | 2.7500 |
| AC48S-140 | AC48T-140 | 140 | 2.9166 |
| AC48S-144 | AC48T-144 | 144 | 3.0000 |
| AC48S-150 | AC48T-150 | 150 | 3.1250 |

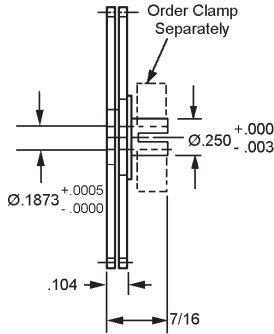
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 48 | CLAMP STYLE | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC48US-46 | AC48VS-46 | 46 | .9583 |
| AC48US-48 | AC48VS-48 | 48 | 1.0000 |
| AC48US-50 | AC48VS-50 | 50 | 1.0416 |
| AC48US-55 | AC48VS-55 | 55 | 1.1458 |
| AC48US-56 | AC48VS-56 | 56 | 1.1666 |
| AC48US-60 | AC48VS-60 | 60 | 1.2500 |
| AC48US-64 | AC48VS-64 | 64 | 1.3333 |
| AC48U-65 | AC48V-65 | 65 | 1.3541 |
| AC48U-70 | AC48V-70 | 70 | 1.4583 |
| AC48U-72 | AC48V-72 | 72 | 1.5000 |
| AC48U-75 | AC48V-75 | 75 | 1.5625 |
| AC48U-80 | AC48V-80 | 80 | 1.6666 |
| AC48U-84 | AC48V-84 | 84 | 1.7500 |
| AC48U-85 | AC48V-85 | 85 | 1.7708 |
| AC48U-90 | AC48V-90 | 90 | 1.8750 |
| AC48U-95 | AC48V-95 | 95 | 1.9791 |
| AC48U-96 | AC48V-96 | 96 | 2.0000 |
| AC48U-100 | AC48V-100 | 100 | 2.0833 |
| AC48U-105 | AC48V-105 | 105 | 2.1875 |
| AC48U-110 | AC48V-110 | 110 | 2.2916 |
| AC48U-115 | AC48V-115 | 115 | 2.3958 |
| AC48U-120 | AC48V-120 | 120 | 2.5000 |
| AC48U-125 | AC48V-125 | 125 | 2.6041 |
| AC48U-130 | AC48V-130 | 130 | 2.7083 |
| AC48U-132 | AC48V-132 | 132 | 2.7500 |
| AC48U-140 | AC48V-140 | 140 | 2.9166 |
| AC48U-144 | AC48V-144 | 144 | 3.0000 |
| AC48U-150 | AC48V-150 | 150 | 3.1250 |

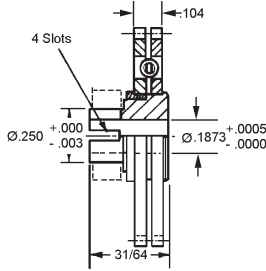
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 48 | CLAMP STYLE | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO.OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|------------------------------------|-----------------------------------|----------------|---------------|-----------------|-----------------|
| AC48CS-28 | --- | 28 | .5833 | .625 | SCISSOR |
| AC48CS-30 | --- | 30 | .6250 | .666 | |
| AC48CS-32 | --- | 32 | .6666 | .708 | |
| AC48CS-34 | AC48PS-34 | 34 | .7083 | .750 | |
| AC48CS-36 | AC48PS-36 | 36 | .7500 | .791 | |
| AC48CS-40 | AC48PS-40 | 40 | .8333 | .875 | |
| AC48CS-44 | AC48PS-44 | 44 | .9166 | .958 | |
| AC48C-48 | AC48P-48 | 48 | 1.0000 | 1.041 | |
| AC48C-50 | AC48P-50 | 50 | 1.0416 | 1.083 | |
| AC48C-54 | AC48P-54 | 54 | 1.1250 | 1.166 | |
| AC48C-60 | AC48P-60 | 60 | 1.2500 | 1.291 | |
| AC48C-64 | AC48P-64 | 64 | 1.3333 | 1.375 | |
| AC48C-70 | AC48P-70 | 70 | 1.4583 | 1.500 | |
| AC48C-72 | AC48P-72 | 72 | 1.5000 | 1.541 | |
| AC48C-80 | AC48P-80 | 80 | 1.6666 | 1.708 | |
| AC48C-90 | AC48P-90 | 90 | 1.8750 | 1.916 | |
| AC48C-96 | AC48P-96 | 96 | 2.0000 | 2.041 | |
| AC48C-100 | AC48P-100 | 100 | 2.0833 | 2.125 | |
| AC48C-108 | AC48P-108 | 108 | 2.2500 | 2.291 | |
| AC48C-120 | AC48P-120 | 120 | 2.5000 | 2.541 | |
| AC48C-144 | AC48P-144 | 144 | 3.0000 | 3.041 | |

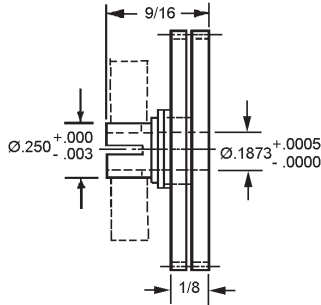
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 48 | CLAMP STYLE | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material:
303 Stainless Steel

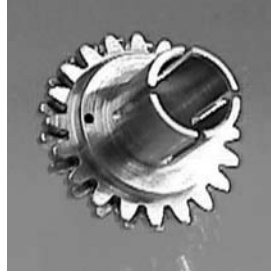
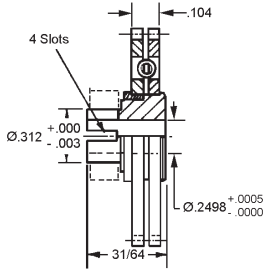
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-----------------|------|---------------|-----------------|
| AC48HS-30 | AC48JS-30 | 48 | 30 | .6250 | .666 |
| AC48HS-32 | AC48JS-32 | | 32 | .6666 | .708 |
| AC48HS-36 | AC48JS-36 | | 36 | .7500 | .792 |
| AC48HS-48 | AC48JS-48 | | 48 | 1.0000 | 1.042 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 48 | CLAMP STYLE | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO.OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|------------------------------------|-----------------------------------|----------------|---------------|-----------------|-----------------|
| AC48ES-28 | - | 28 | .5833 | .625 | SCISSOR |
| AC48ES-30 | - | 30 | .6250 | .666 | |
| AC48ES-32 | - | 32 | .6666 | .708 | |
| AC48ES-36 | AC48RS-36 | 36 | .7500 | .791 | |
| AC48ES-40 | AC48RS-40 | 40 | .8333 | .875 | |
| AC48ES-42 | AC48RS-42 | 42 | .8750 | .916 | |
| AC48ES-45 | AC48RS-45 | 45 | .9375 | .979 | |
| AC48E-48 | AC48R-48 | 48 | 1.0000 | 1.041 | |
| AC48E-50 | AC48R-50 | 50 | 1.0416 | 1.083 | |
| AC48E-54 | AC48R-54 | 54 | 1.1250 | 1.166 | |
| AC48E-56 | AC48R-56 | 56 | 1.1666 | 1.208 | |
| AC48E-60 | AC48R-60 | 60 | 1.2500 | 1.291 | |
| AC48E-64 | AC48R-64 | 64 | 1.3333 | 1.375 | |
| AC48E-65 | AC48R-65 | 65 | 1.3541 | 1.395 | |
| AC48E-70 | AC48R-70 | 70 | 1.4583 | 1.500 | |
| AC48E-72 | AC48R-72 | 72 | 1.5000 | 1.541 | |
| AC48E-75 | AC48R-75 | 75 | 1.5625 | 1.604 | |
| AC48E-78 | AC48R-78 | 78 | 1.6250 | 1.666 | |
| AC48E-80 | AC48R-80 | 80 | 1.6666 | 1.708 | |
| AC48E-90 | AC48R-90 | 90 | 1.8750 | 1.916 | |
| AC48E-96 | AC48R-96 | 96 | 2.0000 | 2.041 | |
| AC48E-100 | AC48R-100 | 100 | 2.0833 | 2.125 | |
| AC48E-105 | AC48R-105 | 105 | 2.1875 | 2.229 | |
| AC48E-108 | AC48R-108 | 108 | 2.2500 | 2.291 | |
| AC48E-120 | AC48R-120 | 120 | 2.5000 | 2.541 | |
| AC48E-144 | AC48R-144 | 144 | 3.0000 | 3.041 | |

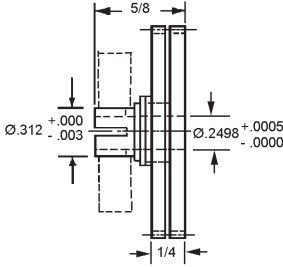
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 48 | CLAMP STYLE | 1/4" | 1/4" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

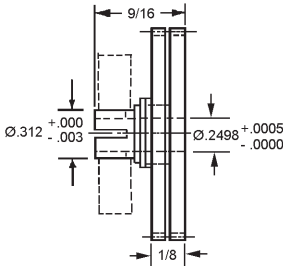


Hub Material:
303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-------|-----------------|---------------|-----------------|
| AC48BS-36 | AC48DS-36 | 48 | 36 | .7500 | .792 |
| AC48BS-42 | AC48DS-42 | | 42 | .8750 | .917 |
| AC48BS-48 | AC48DS-48 | | 48 | 1.0000 | 1.042 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 48 | CLAMP STYLE | 1/4" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material:
303 Stainless Steel

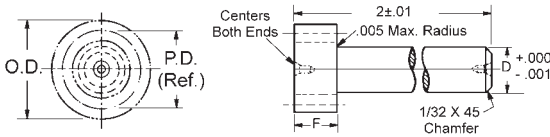
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-----------------|---------------|-----------------|
| AC48KS-32 | AC48LS-32 | 32 | .6666 | .708 |
| AC48KS-36 | AC48LS-36 | 36 | .7500 | .792 |
| AC48KS-48 | AC48LS-48 | 48 | 1.0000 | 1.042 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

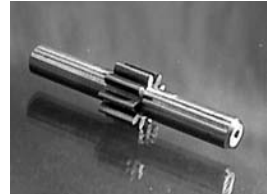
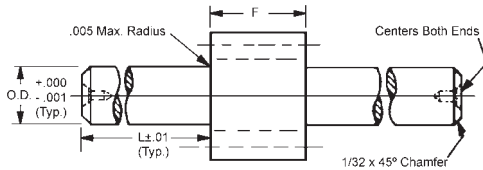
PINION SHAFTS

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-----------------------------|--------------|-------------|
| 48 | BRASS AND COLD ROLLED STEEL | 5 | 20° |



| COLD ROLLED STAINLESS STEEL 12L15 W/SELINIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NUMBER OF TEETH | PITCH DIAMETER | OUTSIDE DIAMETER | D | F |
|--|---------------------------|-----------------|----------------|------------------|------|------|
| PSX48S-9 | PSX48B-9 | 9 | .1875 | .230 | .125 | 3/16 |
| PSX48S-10 | PSX48B-10 | 10 | .2083 | .250 | .125 | |
| PSX48S-12 | PSX48B-12 | 12 | .2500 | .291 | .187 | |
| PSX48S-14 | PSX48B-14 | 14 | .2917 | .333 | .187 | |
| PSX48S-15 | PSX48B-15 | 15 | .3125 | .353 | .250 | |
| PSX48S-16 | PSX48B-16 | 16 | .3333 | .375 | .250 | |
| PSX48S-18 | PSX48B-18 | 18 | .3750 | .417 | .312 | |

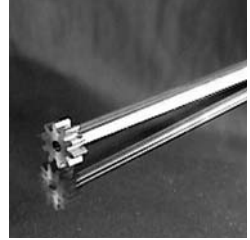
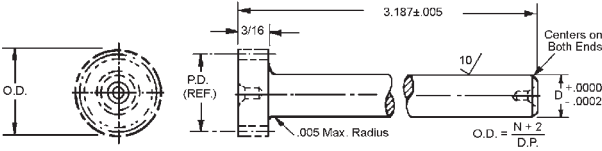
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-----------------------------|--------------|-------------|
| 48 | BRASS AND COLD ROLLED STEEL | 5 | 20° |



| COLD ROLLED STAINLESS STEEL 12L15 W/SELINIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NUMBER OF TEETH | PITCH DIAMETER | OUTSIDE DIAMETER | D | F | L |
|--|---------------------------|-----------------|----------------|------------------|------|------|-----|
| PSW48S-9 | PSW48B-9 | 9 | .1875 | .230 | .125 | 3/16 | 1/2 |
| PSW48S-10 | PSW48B-10 | 10 | .2083 | .250 | .125 | | |
| PSW48S-12 | PSW48B-12 | 12 | .2500 | .291 | .125 | | |
| PSW48S-14 | PSW48B-14 | 14 | .2917 | .333 | .125 | | |
| PSW48S-15 | PSW48B-15 | 15 | .3125 | .353 | .250 | | |
| PSW48S-16 | PSW48B-16 | 16 | .3333 | .375 | .250 | | |
| PSW48S-18 | PSW48B-18 | 18 | .3750 | .417 | .250 | | |

PINION SHAFTS

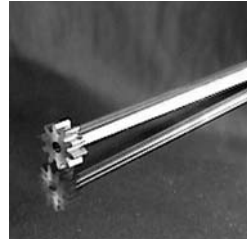
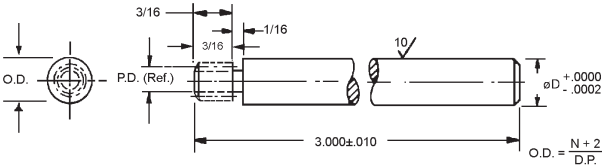
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 48 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS48S3-12H | 48 | 12 | .2500 | .1872 |
| PS48S4-12H | | 12 | .2500 | .2497 |
| PS48S4-14H | | 14 | .2917 | .2497 |
| PS48S4-16H | | 16 | .3333 | .2497 |
| PS48S4-18H | | 18 | .3750 | .2497 |
| PS48S4-20H | | 20 | .4166 | .2497 |
| PS48S4-24H | | 24 | .5000 | .2497 |

Other numbers of teeth available on request.

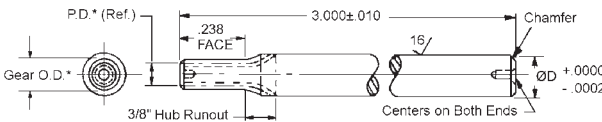
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 48 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|-----------|-------|--------------|------------|-------|
| PS48S4-10 | 48 | 10 | .2083 | .2497 |

Other numbers of teeth available on request.

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 48 | 303 STAINLESS STEEL | 10 | 20° |

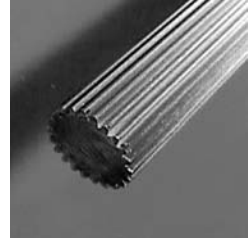
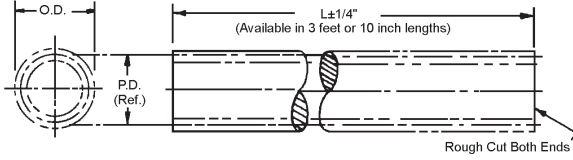


| STOCK NO. | PITCH | NO. OF TEETH | D | ENLARGED | |
|-------------|-------|--------------|-------|----------------|--------------|
| | | | | PITCH DIAMETER | OUTSIDE DIA. |
| B-PS48S5-10 | 48 | 10 | .3122 | .2256 | .267 |
| B-PS48S5-11 | | 11 | | .2440 | .285 |
| B-PS48S5-12 | | 12 | | .2624 | .304 |

Other numbers of teeth available on request.

SPUR GEAR STOCK

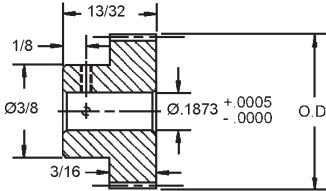
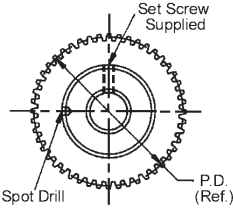
| PITCH | TYPE | MATERIAL | PRESSURE ANGLE |
|-------|-------------|--------------------------------|----------------|
| 48 | PINION WIRE | BRASS AND COLD ROLLED STEEL | 20° |



| BRASS ALLOY 360 | | COLD ROLLED STEEL 12L14 or 12L15 WITH SELENIUM | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|-----------------------------|--|-----------------------------|-----------------|---------------|-----------------|
| 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | | | |
| PW48B-8 | PW48B-8A | PW48S-8 | PW48S-8A | 8 | .1666 | .208 |
| PW48B-9 | PW48B-9A | PW48S-9 | PW48S-9A | 9 | .1875 | .229 |
| PW48B-10 | PW48B-10A | PW48S-10 | PW48S-10A | 10 | .2083 | .250 |
| PW48B-11 | PW48B-11A | PW48S-11 | PW48S-11A | 11 | .2291 | .270 |
| PW48B-12 | PW48B-12A | PW48S-12 | PW48S-12A | 12 | .2500 | .291 |
| PW48B-14 | PW48B-14A | PW48S-14 | PW48S-14A | 14 | .2916 | .333 |
| PW48B-15 | PW48B-15A | PW48S-15 | PW48S-15A | 15 | .3125 | .354 |
| PW48B-16 | PW48B-16A | PW48S-16 | PW48S-16A | 16 | .3333 | .375 |
| PW48B-18X | PW48B-18A | PW48S-18X | PW48S-18A | 18 | .3750 | .416 |
| PW48B-20 | PW48B-20A | PW48S-20 | PW48S-20A | 20 | .4166 | .458 |
| PW48B-22 | PW48B-22A | PW48S-22 | PW48S-22A | 22 | .4583 | .500 |
| PW48B-24 | PW48B-24A | PW48S-24 | PW48S-24A | 24 | .5000 | .541 |
| PW48B-30 | PW48B-30A | PW48S-30 | PW48S-30A | 30 | .6250 | .666 |
| PW48B-32 | PW48B-32A | PW48S-32 | PW48S-32A | 32 | .6666 | .708 |
| PW48B-36 | PW48B-36A | - | - | 36 | .7500 | .791 |
| PW48B-40 | PW48B-40A | - | - | 40 | .8333 | .875 |

SPUR GEARS

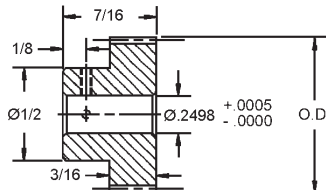
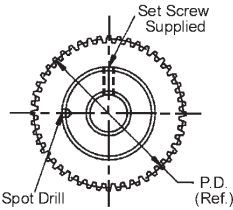
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---------------------|--------------|----------------|
| 1/20 | PIN HUB | 3/16" | 3/16" | 303 STAINLESS STEEL | 10 | 20° |



Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|--------------|------------|--------------|
| P62S21-40 | 40 | .6366 | .668 |
| P62S21-50 | 50 | .7957 | .827 |
| P62S21-60 | 60 | .9549 | .986 |
| P62S21-70 | 70 | 1.1140 | 1.145 |
| P62S21-80 | 80 | 1.2732 | 1.305 |
| P62S21-90 | 90 | 1.4323 | 1.464 |
| P62S21-100 | 100 | 1.5915 | 1.623 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---------------------|--------------|----------------|
| 1/20 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL | 10 | 20° |



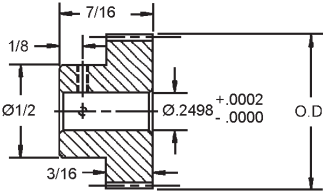
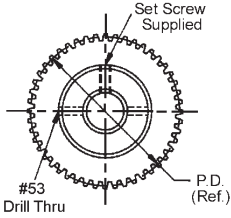
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|--------------|------------|--------------|
| P62S28-40 | 40 | .6366 | .668 |
| P62S28-50 | 50 | .7957 | .827 |
| P62S28-60 | 60 | .9549 | .986 |
| P62S28-70 | 70 | 1.1140 | 1.145 |
| P62S28-80 | 80 | 1.2732 | 1.305 |
| P62S28-90 | 90 | 1.4323 | 1.464 |
| P62S28-100 | 100 | 1.5915 | 1.623 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

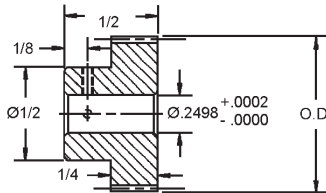
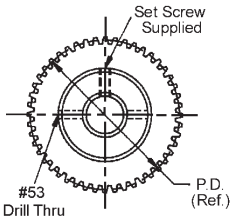
SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 1/20 | PIN HUB | 1/4" | 3/16" | 17-4 PH STAINLESS STEEL HARDENED RC 28-35 | 10 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P62PH28-40 | 40 | .6366 | .668 |
| P62PH28-50 | 50 | .7958 | .828 |
| P62PH28-60 | 60 | .9549 | .987 |
| P62PH28-70 | 70 | 1.1141 | 1.146 |
| P62PH28-80 | 80 | 1.2732 | 1.305 |

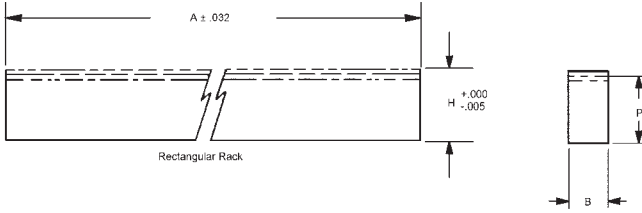
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 1/20 | PIN HUB | 1/4" | 1/4" | 17-4 PH STAINLESS STEEL HARDENED RC 28-35 | 13 | 20° |



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|----------------|--------------|------------|--------------|
| P62PH41-40-Q13 | 40 | .6366 | .668 |
| P62PH41-80-Q13 | 80 | 1.2732 | 1.305 |

GEAR RACKS

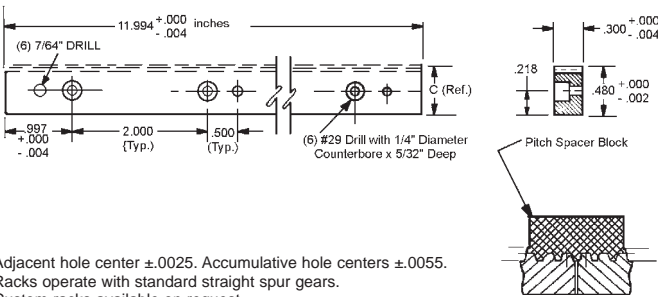
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 1/20 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|------------|----|------|--------------|
| R2-13 | RECTANGULAR | 1/20 | .4641 | .230 ±.005 | 11 | .480 | 10 |

Available on request: 14 - 1/2° pressure angle, special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------------------------------------|--------------|----------------|
| 1/20 | RECTANGULAR | 416 SERIES STAINLESS STEEL RC26-36 | 10 | 20° |



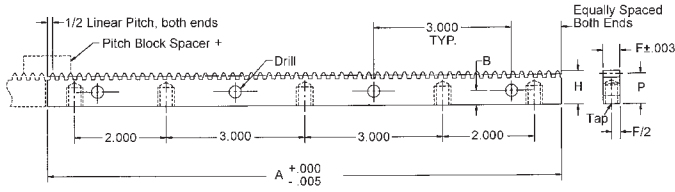
Adjacent hole center $\pm .0025$. Accumulative hole centers $\pm .0055$.
Racks operate with standard straight spur gears.
Custom racks available on request.

| WITHOUT SPACER BLOCK STOCK NO. | WITH SPACER BLOCK STOCK NO. | AGMA QUALITY NO. | TOTAL COMPOSITE ERROR | TOTAL TOOTH ERROR | PITCH PLANE PARALLELISM TO BASE SURFACE | LINEAR PITCH | C REF |
|--------------------------------|-----------------------------|------------------|-----------------------|-------------------|---|--------------|-------|
| R8-3-G1 | R8-3-G1-SB | Q10* | .0014 | .0005 | .0015 | 1/20 | .4639 |

* Higher quality on request.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|---------------|--------------|----------------|
| 1/20 | RECTANGULAR | MOLDED DELRIN | 10 | 20° |



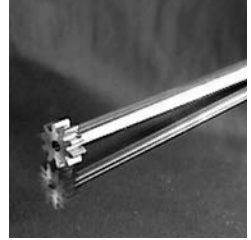
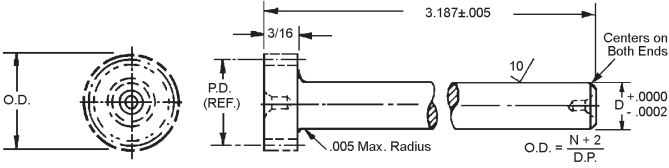
Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | SPACER BLOCK | AGMA QTY. NO. | MAX. ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 / -.005 | F | B | DRILL | TAP |
|-----------|--------------|---------------|-------------------|----------------------|-------|--------------|--------|--------|-----------------|------|------|-------|-------------|
| STOCK NO. | STOCK NO. | | | | | | | | | | | | |
| R1-7-G1 | R1-7-SB | 10* | .0014 | .0005 | 1/20 | .0500 | 10.994 | .4592 | .475 | .230 | .218 | #26 | #6-32 x 1/4 |

* Higher quality on request.

PINION SHAFTS

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 1/20 | 303 STAINLESS STEEL | 10 | 20° |

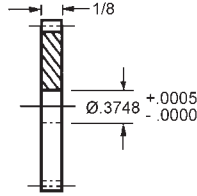
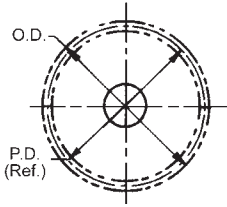


| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS62S4-20H | 1/20 | 20 | .3183 | .2497 |

Other numbers of teeth available on request.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 64 | HUBLESS | 3/8" | 1/8" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



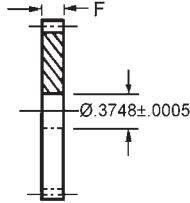
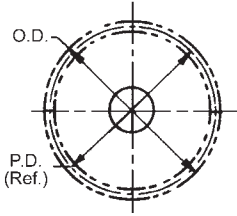
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| F64S3-38 | F64A3-38 | 38 | .5937 | .625 |
| F64S3-40 | F64A3-40 | 40 | .6250 | .656 |
| F64S3-48 | F64A3-48 | 48 | .7500 | .781 |
| F64S3-50 | F64A3-50 | 50 | .7812 | .812 |
| F64S3-64 | F64A3-64 | 64 | 1.0000 | 1.031 |
| F64S3-66 | F64A3-66 | 66 | 1.0312 | 1.062 |
| F64S3-70 | F64A3-70 | 70 | 1.0937 | 1.125 |
| F64S3-72 | F64A3-72 | 72 | 1.1250 | 1.156 |
| F64S3-75 | F64A3-75 | 75 | 1.1718 | 1.203 |
| F64S3-80 | F64A3-80 | 80 | 1.2500 | 1.281 |
| F64S3-84 | F64A3-84 | 84 | 1.3125 | 1.343 |
| F64S3-90 | F64A3-90 | 90 | 1.4062 | 1.437 |
| F64S3-96 | F64A3-96 | 96 | 1.5000 | 1.531 |
| F64S3-100 | F64A3-100 | 100 | 1.5625 | 1.593 |
| F64S3-110 | F64A3-110 | 110 | 1.7187 | 1.750 |
| F64S3-120 | F64A3-120 | 120 | 1.8750 | 1.906 |
| F64S3-128 | F64A3-128 | 128 | 2.0000 | 2.031 |
| F64S3-130 | F64A3-130 | 130 | 2.0312 | 2.062 |
| F64S3-140 | F64A3-140 | 140 | 2.1875 | 2.218 |
| F64S3-144 | F64A3-144 | 144 | 2.2500 | 2.281 |
| F64S3-150 | F64A3-150 | 150 | 2.3437 | 2.375 |
| F64S3-155 | F64A3-155 | 155 | 2.4218 | 2.453 |
| F64S3-160 | F64A3-160 | 160 | 2.5000 | 2.531 |
| F64S3-165 | F64A3-165 | 165 | 2.5781 | 2.609 |
| F64S3-170 | F64A3-170 | 170 | 2.6562 | 2.687 |
| F64S3-176 | F64A3-176 | 176 | 2.7500 | 2.781 |
| F64S3-180 | F64A3-180 | 180 | 2.8125 | 2.843 |
| F64S3-190 | F64A3-190 | 190 | 2.9687 | 3.000 |
| F64S3-192 | F64A3-192 | 192 | 3.0000 | 3.031 |
| F64S3-224 | F64A3-224 | 224 | 3.5000 | 3.531 |
| F64S3-256 | F64A3-256 | 256 | 4.0000 | 4.031 |
| F64S3-264 | F64A3-264 | 264 | 4.1250 | 4.156 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

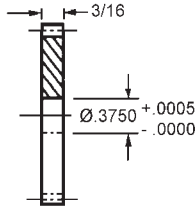
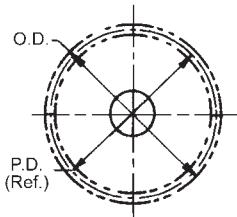
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------------|--------------|--------------|----------------|
| 64 | HUBLESS | 3/8" | 1/8" & 1/4" | POLYURETHANE | 10 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | F |
|-----------|--------------|------------|--------------|------|
| F64U3-64 | 64 | 1.0000 | 1.031 | .125 |
| F64U3-80 | 80 | 1.2500 | 1.281 | .125 |
| F64U3-96 | 96 | 1.5000 | 1.531 | .125 |
| F64U3-112 | 112 | 1.7500 | 1.781 | .125 |
| F64U3-128 | 128 | 2.0000 | 2.031 | .125 |
| F64U3-144 | 144 | 2.2500 | 2.281 | .125 |
| F64U6-160 | 160 | 2.5000 | 2.531 | .250 |
| F64U6-192 | 192 | 3.0000 | 3.031 | .250 |
| F64U6-224 | 224 | 3.5000 | 3.531 | .250 |
| F64U6-256 | 256 | 4.0000 | 4.031 | .250 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|----------|--------------|----------------|
| 64 | HUBLESS | 3/8" | 3/16" | DELIRIN | 10 | 20° |



Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle



| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F64D5-36 | 36 | .5625 | .593 |
| F64D5-37 | 37 | .5781 | .609 |
| F64D5-38 | 38 | .5937 | .625 |
| F64D5-40 | 40 | .6250 | .656 |
| F64D5-42 | 42 | .6562 | .687 |
| F64D5-44 | 44 | .6875 | .718 |
| F64D5-46 | 46 | .7187 | .750 |
| F64D5-48 | 48 | .7500 | .781 |
| F64D5-50 | 50 | .7812 | .812 |
| F64D5-56 | 56 | .8750 | .906 |
| F64D5-60 | 60 | .9375 | .968 |
| F64D5-64 | 64 | 1.0000 | 1.031 |
| F64D5-72 | 72 | 1.1250 | 1.156 |
| F64D5-74 | 74 | 1.1562 | 1.187 |
| F64D5-80 | 80 | 1.2500 | 1.281 |
| F64D5-84 | 84 | 1.3125 | 1.343 |
| F64D5-88 | 88 | 1.3750 | 1.406 |
| F64D5-90 | 90 | 1.4062 | 1.437 |
| F64D5-96 | 96 | 1.5000 | 1.531 |
| F64D5-100 | 100 | 1.5625 | 1.593 |
| F64D5-112 | 112 | 1.7500 | 1.781 |
| F64D5-120 | 120 | 1.8750 | 1.906 |
| F64D5-127 | 127 | 1.9843 | 2.015 |
| F64D5-128 | 128 | 2.0000 | 2.031 |
| F64D5-144 | 144 | 2.2500 | 2.281 |
| F64D5-152 | 152 | 2.3750 | 2.406 |
| F64D5-160 | 160 | 2.5000 | 2.531 |
| F64D5-168 | 168 | 2.6250 | 2.656 |
| F64D5-176 | 176 | 2.7500 | 2.781 |
| F64D5-184 | 184 | 2.8750 | 2.906 |
| F64D5-192 | 192 | 3.0000 | 3.031 |
| F64D5-224 | 224 | 3.5000 | 3.531 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 64 | X | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

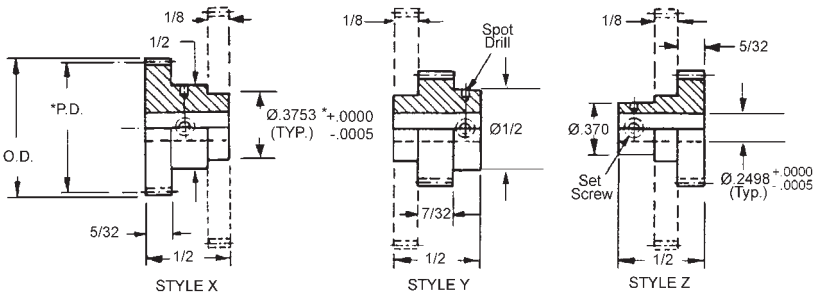
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP64S14-27 | 64 | 27 | .4218 | .453 |
| DP64S14-28 | | 28 | .4375 | .469 |
| DP64S14-30 | | 30 | .4687 | .500 |
| DP64S14-32 | | 32 | .5000 | .531 |
| DP64S14-34 | | 34 | .5312 | .563 |
| DP64S14-36 | | 36 | .5625 | .594 |
| DP64S14-40 | | 40 | .6250 | .656 |
| DP64S14-50 | | 50 | .7812 | .812 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 64 | Y | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP64S16-27 | 64 | 27 | .4218 | .453 |
| DP64S16-28 | | 28 | .4375 | .469 |
| DP64S16-30 | | 30 | .4687 | .500 |
| DP64S16-32 | | 32 | .5000 | .531 |
| DP64S16-34 | | 34 | .5312 | .563 |
| DP64S16-36 | | 36 | .5625 | .594 |
| DP64S16-40 | | 40 | .6250 | .656 |
| DP64S16-50 | | 50 | .7812 | .812 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 64 | Z | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP64S18-27 | 64 | 27 | .4218 | .453 |
| DP64S18-28 | | 28 | .4375 | .469 |
| DP64S18-30 | | 30 | .4687 | .500 |
| DP64S18-32 | | 32 | .5000 | .531 |
| DP64S18-34 | | 34 | .5312 | .563 |
| DP64S18-36 | | 36 | .5625 | .594 |
| DP64S18-40 | | 40 | .6250 | .656 |
| DP64S18-50 | | 50 | .7812 | .812 |



*Concentric within .0003
Order hubless gear separately.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 64 | X | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

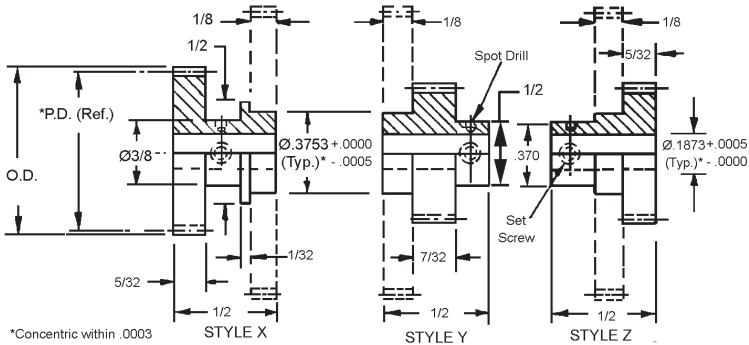
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|-------|--------------|------------|--------------|
| DP64S8-25 | 64 | 25 | .3906 | .422 |
| DP64S8-26 | | 26 | .4062 | .438 |
| DP64S8-28 | | 28 | .4375 | .469 |
| DP64S8-30 | | 30 | .4687 | .500 |
| DP64S8-31 | | 31 | .4843 | .516 |
| DP64S8-32 | | 32 | .4531 | .531 |
| DP64S8-40 | | 40 | .6250 | .656 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 64 | Y | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|-------|--------------|------------|--------------|
| •DP64S10-25 | 64 | 25 | .3906 | .422 |
| •DP64S10-26 | | 26 | .4062 | .438 |
| DP64S10-28 | | 28 | .4375 | .469 |
| DP64S10-30 | | 30 | .4687 | .500 |
| DP64S10-31 | | 31 | .4843 | .516 |
| DP64S10-32 | | 32 | .4531 | .531 |
| DP64S10-40 | | 40 | .6250 | .656 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 64 | Z | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

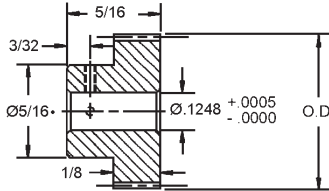
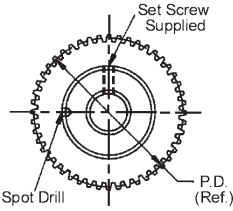
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|-------|--------------|------------|--------------|
| •DP64S12-25 | 64 | 25 | .3906 | .422 |
| •DP64S12-26 | | 26 | .4062 | .438 |
| DP64S12-28 | | 28 | .4375 | .469 |
| DP64S12-30 | | 30 | .4687 | .500 |
| DP64S12-31 | | 31 | .4843 | .516 |
| DP64S12-32 | | 32 | .4531 | .531 |
| DP64S12-40 | | 40 | .6250 | .656 |



- Hub runout cuts thru shoulder.
- Available on request: Other numbers of teeth; AGMA quality 12 and 14; 14-1/2° Pressure Angle.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 64 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



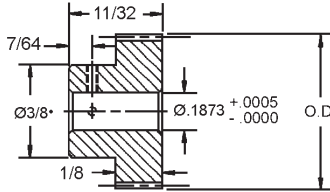
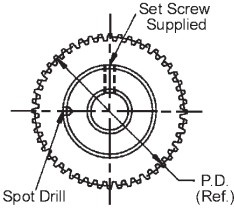
- For 18-23 teeth hub diameter equals .23 Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P64S10-18 | P64A10-18 | 18* | .2812 | .312 |
| P64S10-19 | P64A10-19 | 19* | .2968 | .328 |
| P64S10-20 | P64A10-20 | 20* | .3125 | .343 |
| P64S10-21 | P64A10-21 | 21* | .3281 | .359 |
| P64S10-22 | P64A10-22 | 22* | .3437 | .375 |
| P64S10-23 | P64A10-23 | 23* | .3593 | .390 |
| P64S10-24 | P64A10-24 | 24 | .3750 | .406 |
| P64S10-25 | P64A10-25 | 25 | .3906 | .421 |
| P64S10-26 | P64A10-26 | 26 | .4062 | .437 |
| P64S10-27 | P64A10-27 | 27 | .4218 | .453 |
| P64S10-28 | P64A10-28 | 28 | .4375 | .468 |
| P64S10-29 | P64A10-29 | 29 | .4531 | .484 |
| P64S10-30 | P64A10-30 | 30 | .4687 | .500 |
| P64S10-32 | P64A10-32 | 32 | .5000 | .531 |
| P64S10-34 | P64A10-34 | 34 | .5312 | .562 |
| P64S10-36 | P64A10-36 | 36 | .5625 | .593 |
| P64S10-38 | P64A10-38 | 38 | .5937 | .625 |
| P64S10-40 | P64A10-40 | 40 | .6250 | .656 |
| P64S10-42 | P64A10-42 | 42 | .6562 | .687 |
| P64S10-44 | P64A10-44 | 44 | .6875 | .718 |
| P64S10-46 | P64A10-46 | 46 | .7187 | .750 |
| P64S10-48 | P64A10-48 | 48 | .7500 | .781 |
| P64S10-50 | P64A10-50 | 50 | .7812 | .812 |
| P64S10-55 | P64A10-55 | 55 | .8593 | .890 |
| P64S10-56 | P64A10-56 | 56 | .8750 | .906 |
| P64S10-60 | P64A10-60 | 60 | .9375 | .968 |
| P64S10-64 | P64A10-64 | 64 | 1.0000 | 1.031 |
| P64S10-65 | P64A10-65 | 65 | 1.0156 | 1.046 |
| P64S10-70 | P64A10-70 | 70 | 1.0937 | 1.125 |
| P64S10-72 | P64A10-72 | 72 | 1.1250 | 1.156 |
| P64S10-75 | P64A10-75 | 75 | 1.1718 | 1.203 |
| P64S10-80 | P64A10-80 | 80 | 1.2500 | 1.281 |
| P64S10-84 | P64A10-84 | 84 | 1.3125 | 1.343 |
| P64S10-85 | P64A10-85 | 85 | 1.3281 | 1.359 |
| P64S10-88 | P64A10-88 | 88 | 1.3750 | 1.406 |
| P64S10-90 | P64A10-90 | 90 | 1.4062 | 1.437 |
| P64S10-92 | P64A10-92 | 92 | 1.4375 | 1.468 |
| P64S10-95 | P64A10-95 | 95 | 1.4843 | 1.515 |
| P64S10-96 | P64A10-96 | 96 | 1.5000 | 1.531 |
| P64S10-104 | P64A10-104 | 104 | 1.6250 | 1.656 |
| P64S10-105 | P64A10-105 | 105 | 1.6406 | 1.671 |
| P64S10-112 | P64A10-112 | 112 | 1.7500 | 1.781 |
| P64S10-120 | P64A10-120 | 120 | 1.8750 | 1.906 |
| P64S10-121 | P64A10-121 | 121 | 1.8906 | 1.921 |
| P64S10-127 | P64A10-127 | 127 | 1.9843 | 2.015 |
| P64S10-128 | P64A10-128 | 128 | 2.0000 | 2.031 |
| P64S10-136 | P64A10-136 | 136 | 2.1250 | 2.156 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|------|---|--------------|----------------|
| 64 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



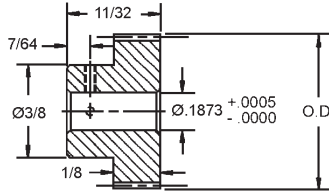
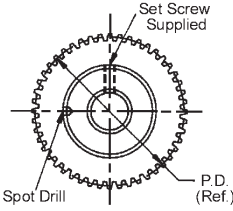
- For 25-26 teeth hub diameter equals .34
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P64S19-25 | P64A19-25 | 25 | .3906 | .421 |
| P64S19-26 | P64A19-26 | 26 | .4062 | .437 |
| P64S19-28 | P64A19-28 | 28 | .4375 | .468 |
| P64S19-29 | P64A19-29 | 29 | .4531 | .484 |
| P64S19-30 | P64A19-30 | 30 | .4687 | .500 |
| P64S19-31 | P64A19-31 | 31 | .4843 | .515 |
| P64S19-32 | P64A19-32 | 32 | .5000 | .531 |
| P64S19-34 | P64A19-34 | 34 | .5312 | .562 |
| P64S19-35 | P64A19-35 | 35 | .5468 | .578 |
| P64S19-36 | P64A19-36 | 36 | .5625 | .593 |
| P64S19-38 | P64A19-38 | 38 | .5937 | .625 |
| P64S19-40 | P64A19-40 | 40 | .6250 | .656 |
| P64S19-42 | P64A19-42 | 42 | .6562 | .687 |
| P64S19-44 | P64A19-44 | 44 | .6875 | .718 |
| P64S19-45 | P64A19-45 | 45 | .7031 | .734 |
| P64S19-46 | P64A19-46 | 46 | .7187 | .750 |
| P64S19-48 | P64A19-48 | 48 | .7500 | .781 |
| P64S19-50 | P64A19-50 | 50 | .7812 | .812 |
| P64S19-55 | P64A19-55 | 55 | .8593 | .890 |
| P64S19-56 | P64A19-56 | 56 | .8750 | .906 |
| P64S19-60 | P64A19-60 | 60 | .9375 | .968 |
| P64S19-64 | P64A19-64 | 64 | 1.0000 | 1.031 |
| P64S19-65 | P64A19-65 | 65 | 1.0156 | 1.046 |
| P64S19-70 | P64A19-70 | 70 | 1.0937 | 1.125 |
| P64S19-72 | P64A19-72 | 72 | 1.1250 | 1.156 |
| P64S19-75 | P64A19-75 | 75 | 1.1718 | 1.203 |
| P64S19-80 | P64A19-80 | 80 | 1.2500 | 1.281 |
| P64S19-84 | P64A19-84 | 84 | 1.3125 | 1.343 |
| P64S19-85 | P64A19-85 | 85 | 1.3281 | 1.359 |
| P64S19-88 | P64A19-88 | 88 | 1.3750 | 1.406 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|------|---|--------------|----------------|
| 64 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



- For 25-26 teeth hub diameter equals .34

Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

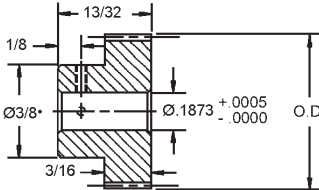
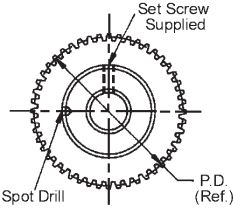
X in part number indicates part may be supplied as two piece construction (some dimensions may vary).

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P64S19-90 | P64A19-90 | 90 | 1.0462 | 1.437 |
| P64S19-92 | P64A19-92 | 92 | 1.4375 | 1.468 |
| P64S19-95 | P64A19-95 | 95 | 1.4843 | 1.515 |
| P64S19-96 | P64A19-96 | 96 | 1.5000 | 1.531 |
| P64S19-100 | P64A19-100 | 100 | 1.5625 | 1.593 |
| P64S19-105 | P64A19-105 | 105 | 1.6406 | 1.671 |
| P64S19-110 | P64A19-110 | 110 | 1.7187 | 1.750 |
| P64S19-115 | P64A19-115 | 115 | 1.7968 | 1.828 |
| P64S19-120 | P64A19-120 | 120 | 1.8750 | 1.906 |
| P64S19-122 | P64A19-122 | 122 | 1.9062 | 1.937 |
| P64S19-124 | P64A19-124 | 124 | 1.9375 | 1.968 |
| P64S19-127 | P64A19-127 | 127 | 1.9843 | 2.015 |
| P64S19-128 | P64A19-128 | 128 | 2.0000 | 2.031 |
| P64S19-130 | P64A19-130 | 130 | 2.0312 | 2.062 |
| P64S19-136 | P64A19-136 | 136 | 2.1250 | 2.156 |
| P64S19-140 | P64A19-140 | 140 | 2.1875 | 2.218 |
| P64S19-144 | P64A19-144 | 144 | 2.2500 | 2.281 |
| P64S19-150 | P64A19-150 | 150 | 2.3437 | 2.375 |
| P64S19-152 | P64A19-152 | 152 | 2.3750 | 2.406 |
| P64S19-156 | P64A19-156 | 156 | 2.4375 | 2.468 |
| P64S19-160 | P64A19-160 | 160 | 2.5000 | 2.531 |
| P64S19-164 | P64A19-164 | 164 | 2.5625 | 2.593 |
| P64S19-168 | P64A19-168 | 168 | 2.6250 | 2.656 |
| P64S19-170 | P64A19-170 | 170 | 2.6562 | 2.687 |
| P64S19-176 | P64A19-176 | 176 | 2.7500 | 2.781 |
| P64S19-180 | P64A19-180 | 180 | 2.8125 | 2.843 |
| P64S19-184 | P64A19-184 | 184 | 2.8750 | 2.906 |
| P64S19-190 | P64A19-190 | 190 | 2.9687 | 3.000 |
| P64S19-192 | P64A19-192 | 192 | 3.0000 | 3.031 |
| P64S19-200 | P64A19-200 | 200 | 3.1250 | 3.156 |
| P64S19X-224 | P64A19X-224 | 224 | 3.5000 | 3.531 |
| P64S19X-256 | P64A19X-256 | 256 | 4.0000 | 4.031 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---|--------------|----------------|
| 64 | PIN HUB | 3/16" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



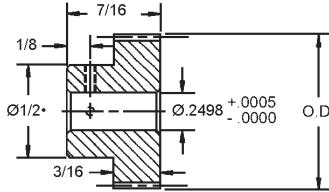
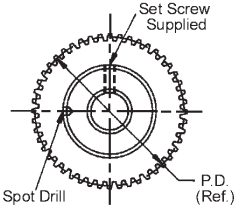
- For 25-26 teeth hub diameter equals .34
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P64S21-25 | P64A21-25 | 25• | .3906 | .421 |
| P64S21-26 | P64A21-26 | 26• | .4062 | .437 |
| P64S21-28 | P64A21-28 | 28 | .4375 | .468 |
| P64S21-30 | P64A21-30 | 30 | .4687 | .500 |
| P64S21-32 | P64A21-32 | 32 | .5000 | .531 |
| P64S21-36 | P64A21-36 | 36 | .5625 | .593 |
| P64S21-40 | P64A21-40 | 40 | .6250 | .656 |
| P64S21-44 | P64A21-44 | 44 | .6875 | .718 |
| P64S21-46 | P64A21-46 | 46 | .7187 | .750 |
| P64S21-48 | P64A21-48 | 48 | .7500 | .781 |
| P64S21-50 | P64A21-50 | 50 | .7812 | .812 |
| P64S21-56 | P64A21-56 | 56 | .8750 | .906 |
| P64S21-60 | P64A21-60 | 60 | .9375 | .968 |
| P64S21-64 | P64A21-64 | 64 | 1.0000 | 1.031 |
| P64S21-70 | P64A21-70 | 70 | 1.0937 | 1.125 |
| P64S21-75 | P64A21-75 | 75 | 1.1718 | 1.203 |
| P64S21-80 | P64A21-80 | 80 | 1.2500 | 1.281 |
| P64S21-88 | P64A21-88 | 88 | 1.3750 | 1.406 |
| P64S21-90 | P64A21-90 | 90 | 1.4062 | 1.437 |
| P64S21-96 | P64A21-96 | 96 | 1.5000 | 1.531 |
| P64S21-100 | P64A21-100 | 100 | 1.5625 | 1.593 |
| P64S21-110 | P64A21-110 | 110 | 1.7187 | 1.750 |
| P64S21-112 | P64A21-112 | 112 | 1.7500 | 1.781 |
| P64S21-120 | P64A21-120 | 120 | 1.8750 | 1.906 |
| P64S21-128 | P64A21-128 | 128 | 2.0000 | 2.031 |
| P64S21-136 | P64A21-136 | 136 | 2.1250 | 2.156 |
| P64S21-144 | P64A21-144 | 144 | 2.2500 | 2.281 |
| P64S21-152 | P64A21-152 | 152 | 2.3750 | 2.406 |
| P64S21-160 | P64A21-160 | 160 | 2.5000 | 2.531 |
| P64S21-176 | P64A21-176 | 176 | 2.7500 | 2.781 |
| P64S21-192 | P64A21-192 | 192 | 3.0000 | 3.031 |
| P64S21-200 | P64A21-200 | 200 | 3.1250 | 3.156 |
| P64S21-208 | P64A21-208 | 208 | 3.2500 | 3.281 |
| P64S21-224 | P64A21-224 | 224 | 3.5000 | 3.531 |
| P64S21-240 | P64A21-240 | 240 | 3.7500 | 3.781 |
| P64S21-256 | P64A21-256 | 256 | 4.0000 | 4.031 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 64 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



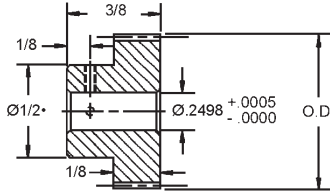
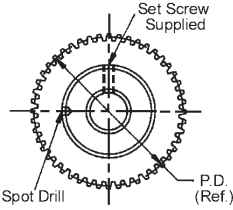
- For 31-34 teeth hub diameter equals .44
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P64S28-32 | P64A28-32 | 32* | .5000 | .531 |
| P64S28-34 | P64A28-34 | 34* | .5312 | .562 |
| P64S28-36 | P64A28-36 | 36 | .5625 | .593 |
| P64S28-38 | P64A28-38 | 38 | .5937 | .625 |
| P64S28-40 | P64A28-40 | 40 | .6250 | .656 |
| P64S28-42 | P64A28-42 | 42 | .6562 | .687 |
| P64S28-48 | P64A28-48 | 48 | .7500 | .781 |
| P64S28-50 | P64A28-50 | 50 | .7812 | .812 |
| P64S28-56 | P64A28-56 | 56 | .8750 | .906 |
| P64S28-60 | P64A28-60 | 60 | .9375 | .968 |
| P64S28-64 | P64A28-64 | 64 | 1.0000 | 1.031 |
| P64S28-70 | P64A28-70 | 70 | 1.0937 | 1.125 |
| P64S28-72 | P64A28-72 | 72 | 1.1250 | 1.156 |
| P64S28-75 | P64A28-75 | 75 | 1.1718 | 1.203 |
| P64S28-80 | P64A28-80 | 80 | 1.2500 | 1.281 |
| P64S28-84 | P64A28-84 | 84 | 1.3125 | 1.343 |
| P64S28-88 | P64A28-88 | 88 | 1.3750 | 1.406 |
| P64S28-90 | P64A28-90 | 90 | 1.4062 | 1.437 |
| P64S28-96 | P64A28-96 | 96 | 1.5000 | 1.531 |
| P64S28-104 | P64A28-104 | 104 | 1.6250 | 1.656 |
| P64S28-112 | P64A28-112 | 112 | 1.7500 | 1.781 |
| P64S28-120 | P64A28-120 | 120 | 1.8750 | 1.906 |
| P64S28-128 | P64A28-128 | 128 | 2.0000 | 2.031 |
| P64S28-130 | P64A28-130 | 130 | 2.0312 | 2.062 |
| P64S28-144 | P64A28-144 | 144 | 2.2500 | 2.281 |
| P64S28-160 | P64A28-160 | 160 | 2.5000 | 2.531 |
| P64S28-176 | P64A28-176 | 176 | 2.7500 | 2.781 |
| P64S28-192 | P64A28-192 | 192 | 3.0000 | 3.031 |
| P64S28-208 | P64A28-208 | 208 | 3.2500 | 3.281 |
| P64S28-224 | P64A28-224 | 224 | 3.5000 | 3.531 |
| P64S28-240 | P64A28-240 | 240 | 3.7500 | 3.781 |
| P64S28-256 | P64A28-256 | 256 | 4.0000 | 4.031 |
| P64S28-264 | P64A28-264 | 264 | 4.1250 | 4.156 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 64 | PIN HUB | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



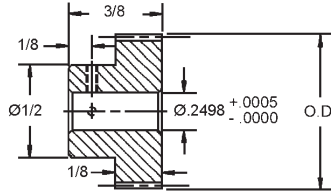
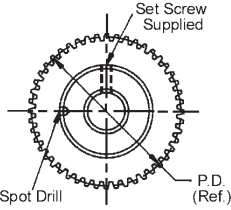
- For 31-34 teeth hub diameter equals .44
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P64S26-32 | P64A26-32 | 32* | .5000 | .531 |
| P64S26-34 | P64A26-34 | 34* | .5312 | .562 |
| P64S26-35 | P64A26-35 | 35 | .5468 | .578 |
| P64S26-36 | P64A26-36 | 36 | .5625 | .593 |
| P64S26-40 | P64A26-40 | 40 | .6250 | .656 |
| P64S26-42 | P64A26-42 | 42 | .6562 | .687 |
| P64S26-44 | P64A26-44 | 44 | .6875 | .718 |
| P64S26-45 | P64A26-45 | 45 | .7031 | .734 |
| P64S26-46 | P64A26-46 | 46 | .7187 | .750 |
| P64S26-48 | P64A26-48 | 48 | .7500 | .781 |
| P64S26-50 | P64A26-50 | 50 | .7812 | .812 |
| P64S26-54 | P64A26-54 | 54 | .8437 | .875 |
| P64S26-55 | P64A26-55 | 55 | .8593 | .890 |
| P64S26-56 | P64A26-56 | 56 | .8750 | .906 |
| P64S26-60 | P64A26-60 | 60 | .9375 | .968 |
| P64S26-64 | P64A26-64 | 64 | 1.0000 | 1.031 |
| P64S26-70 | P64A26-70 | 70 | 1.0937 | 1.125 |
| P64S26-72 | P64A26-72 | 72 | 1.1250 | 1.156 |
| P64S26-75 | P64A26-75 | 75 | 1.1718 | 1.203 |
| P64S26-80 | P64A26-80 | 80 | 1.2500 | 1.281 |
| P64S26-84 | P64A26-84 | 84 | 1.3125 | 1.343 |
| P64S26-85 | P64A26-85 | 85 | 1.3281 | 1.359 |
| P64S26-86 | P64A26-86 | 86 | 1.3437 | 1.375 |
| P64S26-90 | P64A26-90 | 90 | 1.4062 | 1.437 |
| P64S26-95 | P64A26-95 | 95 | 1.4843 | 1.515 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 64 | PIN HUB | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



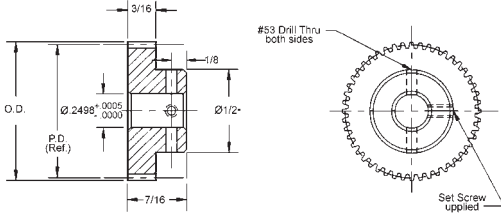
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| P64S26-100 | P64A26-100 | 100 | 1.5625 | 1.593 |
| P64S26-105 | P64A26-105 | 105 | 1.6406 | 1.671 |
| P64S26-110 | P64A26-110 | 110 | 1.7187 | 1.750 |
| P64S26-112 | P64A26-112 | 112 | 1.7500 | 1.781 |
| P64S26-120 | P64A26-120 | 120 | 1.8750 | 1.906 |
| P64S26-124 | P64A26-124 | 124 | 1.9375 | 1.968 |
| P64S26-128 | P64A26-128 | 128 | 2.0000 | 2.031 |
| P64S26-130 | P64A26-130 | 130 | 2.0312 | 2.062 |
| P64S26-140 | P64A26-140 | 140 | 2.1875 | 2.218 |
| P64S26-144 | P64A26-144 | 144 | 2.2500 | 2.281 |
| P64S26-150 | P64A26-150 | 150 | 2.3437 | 2.375 |
| P64S26-160 | P64A26-160 | 160 | 2.5000 | 2.531 |
| P64S26-168 | P64A26-168 | 168 | 2.6250 | 2.656 |
| P64S26-170 | P64A26-170 | 170 | 2.6562 | 2.687 |
| P64S26-176 | P64A26-176 | 176 | 2.7500 | 2.781 |
| P64S26-180 | P64A26-180 | 180 | 2.8125 | 2.843 |
| P64S26-184 | P64A26-184 | 184 | 2.8750 | 2.906 |
| P64S26-190 | P64A26-190 | 190 | 2.9687 | 3.000 |
| P64S26-192 | P64A26-192 | 192 | 3.0000 | 3.031 |
| P64S26-200 | P64A26-200 | 200 | 3.1250 | 3.156 |
| P64S26-208 | P64A26-208 | 208 | 3.2500 | 3.281 |
| P64S26-216 | P64A26-216 | 216 | 3.3750 | 3.406 |
| P64S26-224 | P64A26-224 | 224 | 3.5000 | 3.531 |
| P64S26-232 | P64A26-232 | 232 | 3.6250 | 3.656 |
| P64S26-240 | P64A26-240 | 240 | 3.7500 | 3.781 |
| P64S26-248 | P64A26-248 | 248 | 3.8750 | 3.906 |
| P64S26-256 | P64A26-256 | 256 | 4.0000 | 4.031 |
| P64S26-264 | P64A26-264 | 264 | 4.1250 | 4.156 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

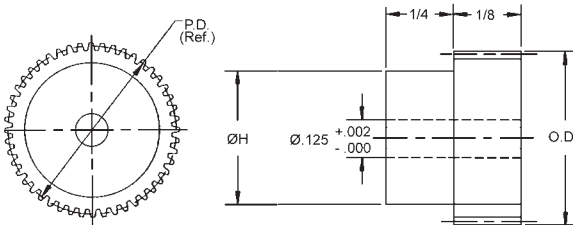
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|------------------------------------|--------------|----------------|
| 64 | PIN HUB | 1/4" | 3/16" | 17-4 STAINLESS STEEL RC 28 - 35 | 10 | 20° |



- For 32-34 teeth hub diameter equals .45.
- Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|--------------|------------|--------------|
| P64PH28-32 | 32* | .5000 | .531 |
| P64PH28-34 | 34* | .5312 | .563 |
| P64PH28-36 | 36 | .5625 | .594 |
| P64PH28-38 | 38 | .5937 | .625 |
| P64PH28-40 | 40 | .6250 | .656 |
| P64PH28-42 | 42 | .6562 | .687 |
| P64PH28-44 | 44 | .6875 | .719 |
| P64PH28-48 | 48 | .7500 | .781 |
| P64PH28-50 | 50 | .7812 | .813 |
| P64PH28-56 | 56 | .8750 | .906 |
| P64PH28-64 | 60 | 1.0000 | 1.031 |
| P64PH28-72 | 72 | 1.1250 | 1.156 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 64 | PIN HUB | 1/8" | 1/8" | COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM OR BRASS ALLOY 360 | 4 | 20° |

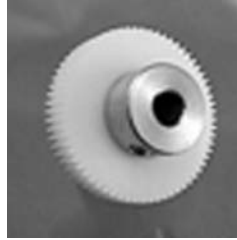
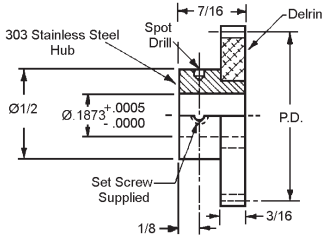


| COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | H |
|---|---------------------------------------|-----------------|---------------|-----------------|------|
| PX64S-15 | PX64B-15 | 15 | .234 | .265 | .187 |
| PX64S-16 | PX64B-16 | 16 | .250 | .281 | .203 |
| PX64S-18 | PX64B-18 | 18 | .281 | .312 | .234 |
| - | PX64B-24 | 24 | .375 | .406 | .328 |
| - | PX64B-40 | 40 | .625 | .656 | .578 |
| - | PX64B-48 | 48 | .750 | .781 | .703 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|--|--------------|----------------|
| 64 | PIN HUB | 3/16" | 3/16" | DELTRIN WITH STAINLESS STEEL HUB | 10 | 20° |



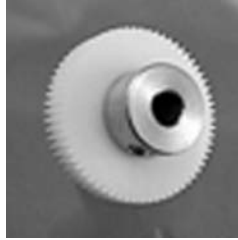
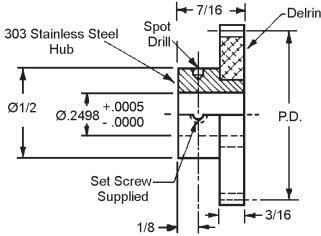
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|--------------|------------|--------------|
| P64D21X-36 | 36 | .5625 | .593 |
| P64D21X-37 | 37 | .5781 | .609 |
| P64D21X-38 | 38 | .5937 | .625 |
| P64D21X-40 | 40 | .6250 | .656 |
| P64D21X-42 | 42 | .6562 | .687 |
| P64D21X-44 | 44 | .6875 | .718 |
| P64D21X-46 | 46 | .7187 | .750 |
| P64D21X-48 | 48 | .7500 | .781 |
| P64D21X-50 | 50 | .7812 | .812 |
| P64D21X-56 | 56 | .8750 | .906 |
| P64D21X-60 | 60 | .9375 | .968 |
| P64D21X-64 | 64 | 1.0000 | 1.031 |
| P64D21X-72 | 72 | 1.1250 | 1.156 |
| P64D21X-74 | 74 | 1.1562 | 1.187 |
| P64D21X-80 | 80 | 1.2500 | 1.281 |
| P64D21X-84 | 84 | 1.3125 | 1.343 |
| P64D21X-88 | 88 | 1.3750 | 1.406 |
| P64D21X-90 | 90 | 1.4062 | 1.437 |
| P64D21X-96 | 96 | 1.5000 | 1.531 |
| P64D21X-100 | 100 | 1.5625 | 1.593 |
| P64D21X-112 | 112 | 1.7500 | 1.781 |
| P64D21X-120 | 120 | 1.8750 | 1.906 |
| P64D21X-127 | 127 | 1.9843 | 2.015 |
| P64D21X-128 | 128 | 2.0000 | 2.031 |
| P64D21X-144 | 144 | 2.2500 | 2.281 |
| P64D21X-152 | 152 | 2.3750 | 2.406 |
| P64D21X-160 | 160 | 2.5000 | 2.531 |
| P64D21X-168 | 168 | 2.6250 | 2.656 |
| P64D21X-176 | 176 | 2.7500 | 2.781 |
| P64D21X-184 | 184 | 2.8750 | 2.906 |
| P64D21X-192 | 192 | 3.0000 | 3.031 |
| P64D21X-224 | 224 | 3.5000 | 3.531 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---------------------------------------|--------------|----------------|
| 64 | PIN HUB | 1/4" | 3/16" | DELRIN WITH STAINLESS STEEL HUB | 10 | 20° |



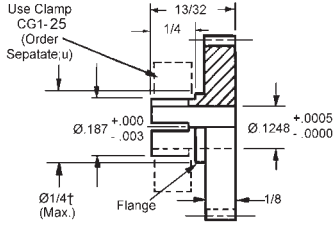
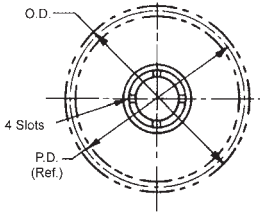
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|--------------|------------|--------------|
| P64D28X-36 | 36 | .5625 | .593 |
| P64D28X-37 | 37 | .5781 | .609 |
| P64D28X-38 | 38 | .5937 | .625 |
| P64D28X-40 | 40 | .6250 | .656 |
| P64D28X-42 | 42 | .6562 | .687 |
| P64D28X-44 | 44 | .6875 | .718 |
| P64D28X-46 | 46 | .7187 | .750 |
| P64D28X-48 | 48 | .7500 | .781 |
| P64D28X-50 | 50 | .7812 | .812 |
| P64D28X-56 | 56 | .8750 | .906 |
| P64D28X-60 | 60 | .9375 | .968 |
| P64D28X-64 | 64 | 1.0000 | 1.031 |
| P64D28X-72 | 72 | 1.1250 | 1.156 |
| P64D28X-74 | 74 | 1.1562 | 1.187 |
| P64D28X-80 | 80 | 1.2500 | 1.281 |
| P64D28X-84 | 84 | 1.3125 | 1.343 |
| P64D28X-88 | 88 | 1.3750 | 1.406 |
| P64D28X-90 | 90 | 1.4062 | 1.437 |
| P64D28X-96 | 96 | 1.5000 | 1.531 |
| P64D28X-100 | 100 | 1.5625 | 1.593 |
| P64D28X-112 | 112 | 1.7500 | 1.781 |
| P64D28X-120 | 120 | 1.8750 | 1.906 |
| P64D28X-127 | 127 | 1.9843 | 2.015 |
| P64D28X-128 | 128 | 2.0000 | 2.031 |
| P64D28X-144 | 144 | 2.2500 | 2.281 |
| P64D28X-152 | 152 | 2.3750 | 2.406 |
| P64D28X-160 | 160 | 2.5000 | 2.531 |
| P64D28X-168 | 168 | 2.6250 | 2.656 |
| P64D28X-176 | 176 | 2.7500 | 2.781 |
| P64D28X-184 | 184 | 2.8750 | 2.906 |
| P64D28X-192 | 192 | 3.0000 | 3.031 |
| P64D28X-224 | 224 | 3.5000 | 3.531 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|----------------|------|------|---|--------------|----------------|
| 64 | CLAMP STYLE | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



† Teeth may runout on flange diameter.

Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

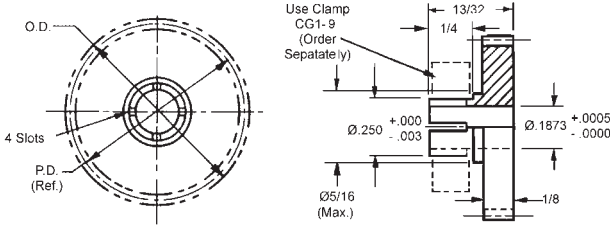
| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| C64S7-18 | C64A7-18 | 18† | .2812 | .312 |
| C64S7-19 | C64A7-19 | 19 | .2968 | .328 |
| C64S7-20 | C64A7-20 | 20 | .3125 | .343 |
| C64S7-21 | C64A7-21 | 21 | .3281 | .359 |
| C64S7-22 | C64A7-22 | 22 | .3437 | .375 |
| C64S7-23 | C64A7-23 | 23 | .3593 | .390 |
| C64S7-24 | C64A7-24 | 24 | .3750 | .406 |
| C64S7-25 | C64A7-25 | 25 | .3906 | .421 |
| C64S7-26 | C64A7-26 | 26 | .4062 | .437 |
| C64S7-27 | C64A7-27 | 27 | .4218 | .453 |
| C64S7-28 | C64A7-28 | 28 | .4375 | .468 |
| C64S7-29 | C64A7-29 | 29 | .4531 | .484 |
| C64S7-30 | C64A7-30 | 30 | .4687 | .500 |
| C64S7-32 | C64A7-32 | 32 | .5000 | .531 |
| C64S7-34 | C64A7-34 | 34 | .5312 | .562 |
| C64S7-36 | C64A7-36 | 36 | .5625 | .593 |
| C64S7-38 | C64A7-38 | 38 | .5937 | .625 |
| C64S7-40 | C64A7-40 | 40 | .6250 | .656 |
| C64S7-42 | C64A7-42 | 42 | .6562 | .687 |
| C64S7-44 | C64A7-44 | 44 | .6875 | .718 |
| C64S7-46 | C64A7-46 | 46 | .7187 | .750 |
| C64S7-48 | C64A7-48 | 48 | .7500 | .781 |
| C64S7-50 | C64A7-50 | 50 | .7812 | .812 |
| C64S7-55 | C64A7-55 | 55 | .8593 | .890 |
| C64S7-56 | C64A7-56 | 56 | .8750 | .906 |
| C64S7-60 | C64A7-60 | 60 | .9375 | .968 |
| C64S7-64 | C64A7-64 | 64 | 1.0000 | 1.031 |
| C64S7-72 | C64A7-72 | 72 | 1.1250 | 1.156 |
| C64S7-80 | C64A7-80 | 80 | 1.2500 | 1.281 |
| C64S7-88 | C64A7-88 | 88 | 1.3750 | 1.406 |
| C64S7-96 | C64A7-96 | 96 | 1.5000 | 1.531 |
| C64S7-104 | C64A7-104 | 104 | 1.6250 | 1.656 |
| C64S7-112 | C64A7-112 | 112 | 1.7500 | 1.781 |
| C64S7-120 | C64A7-120 | 120 | 1.8750 | 1.906 |

For Couplings See Section G.

For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|----------------|-------|------|---|--------------|----------------|
| 64 | CLAMP STYLE | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

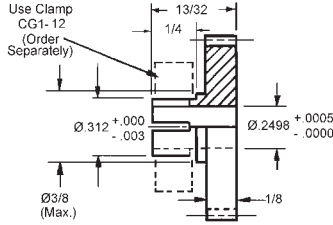
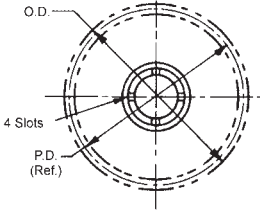
X in part number indicates part may be supplied in two piece construction with stainless steel hub (some dimensions may vary).

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| C64S14-24 | C64A14-24 | 24 | .3750 | .406 |
| C64S14-25 | C64A14-25 | 25 | .3906 | .421 |
| C64S14-28 | C64A14-28 | 28 | .4375 | .468 |
| C64S14-30 | C64A14-30 | 30 | .4687 | .500 |
| C64S14-32 | C64A14-32 | 32 | .5000 | .531 |
| C64S14-40 | C64A14-40 | 40 | .6250 | .656 |
| C64S14-42 | C64A14-42 | 42 | .6562 | .687 |
| C64S14-44 | C64A14-44 | 44 | .6875 | .718 |
| C64S14-46 | C64A14-46 | 46 | .7187 | .750 |
| C64S14-48 | C64A14-48 | 48 | .7500 | .781 |
| C64S14-50 | C64A14-50 | 50 | .7812 | .812 |
| C64S14-52 | C64A14-52 | 52 | .8125 | .843 |
| C64S14-56 | C64A14-56 | 56 | .8750 | .906 |
| C64S14-60 | C64A14-60 | 60 | .9375 | .968 |
| C64S14-64 | C64A14-64 | 64 | 1.0000 | 1.031 |
| C64S14-72 | C64A14-72 | 72 | 1.1250 | 1.156 |
| C64S14-76 | C64A14-76 | 76 | 1.1875 | 1.218 |
| C64S14-80 | C64A14-80 | 80 | 1.2500 | 1.281 |
| C64S14-84 | C64A14-84 | 84 | 1.3125 | 1.343 |
| C64S14-85 | C64A14-85 | 85 | 1.3281 | 1.359 |
| C64S14-88 | C64A14-88 | 88 | 1.3750 | 1.406 |
| C94S14-90 | C64A14-90 | 90 | 1.4062 | 1.437 |
| C64S14-96 | C64A14-96 | 96 | 1.5000 | 1.531 |
| C64S14-100 | C64A14-100 | 100 | 1.5625 | 1.593 |
| C64S14-104 | C64A14-104 | 104 | 1.6250 | 1.656 |
| C64S14-112 | C64A14-112 | 112 | 1.7500 | 1.781 |
| C64S14-120 | C64A14-120 | 120 | 1.8750 | 1.906 |
| C64S14-128 | C64A14-128 | 128 | 2.0000 | 2.031 |
| C64S14-130 | C64A14-130 | 130 | 2.0312 | 2.062 |
| C64S14-144 | C64A14-144 | 144 | 2.2500 | 2.281 |
| C64S14-152 | C64A14-152 | 152 | 2.3750 | 2.406 |
| C64S15X-160 | C64A15X-160 | 160 | 2.5000 | 2.531 |
| C64S15X-176 | C64A15X-176 | 176 | 2.7500 | 2.843 |
| C64S15X-180 | C64A15X-180 | 180 | 2.8125 | 2.843 |
| C64S15X-192 | C64A15X-192 | 192 | 3.0000 | 3.031 |
| C64S15X-224 | C64A15X-224 | 224 | 3.5000 | 3.531 |
| C64S15X-256 | C64A15X-256 | 256 | 4.0000 | 4.031 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|----------------|------|------|---|--------------|----------------|
| 64 | CLAMP STYLE | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



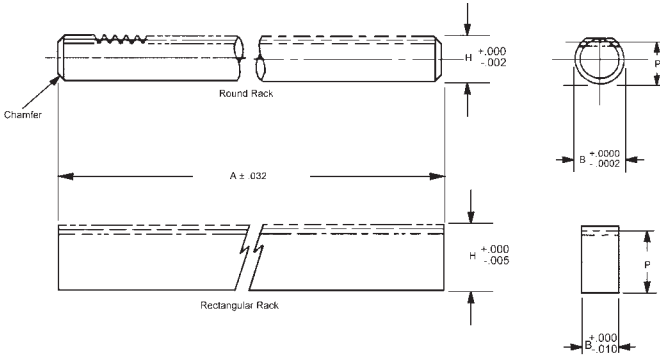
Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| C64S18-30 | C64A18-30 | 30 | .4687 | .500 |
| C64S18-32 | C64A18-32 | 32 | .5000 | .531 |
| C64S18-35 | C64A18-35 | 35 | .5468 | .578 |
| C64S18-36 | C64A 8-36 | 36 | .5625 | .593 |
| C64S18-40 | C64A18-40 | 40 | .6250 | .656 |
| C64S18-45 | C64A18-45 | 45 | .7031 | .734 |
| C64S18-48 | C64A18-48 | 48 | .7500 | .781 |
| C64S18-50 | C64A18-50 | 50 | .7812 | .812 |
| C64S18-60 | C64A18-60 | 60 | .9375 | .968 |
| C64S18-64 | C64A18-64 | 64 | 1.0000 | 1.031 |
| C64S18-70 | C64A18-70 | 70 | 1.0937 | 1.125 |
| C64S18-72 | C64A18-72 | 72 | 1.1250 | 1.156 |
| C64S18-75 | C64A18-75 | 75 | 1.1718 | 1.203 |
| C64S18-80 | C64A18-80 | 80 | 1.2500 | 1.281 |
| C64S18-84 | C64A18-84 | 84 | 1.3125 | 1.343 |
| C64S18-88 | C64A18-88 | 88 | 1.3750 | 1.406 |
| C64S18-90 | C64A18-90 | 90 | 1.4062 | 1.437 |
| C64S18-96 | C64A18-96 | 96 | 1.5000 | 1.531 |
| C64S18-112 | C64A18-112 | 112 | 1.7500 | 1.781 |
| C64S18-120 | C64A18-120 | 120 | 1.8750 | 1.906 |
| C64S18-125 | C64A18-125 | 125 | 1.9531 | 1.984 |
| C64S18-128 | C64A18-128 | 128 | 2.0000 | 2.031 |
| C64S18-130 | C64A18-130 | 130 | 2.0312 | 2.062 |
| C64S18-140 | C64A18-140 | 140 | 2.1875 | 2.218 |
| C64S18-144 | C64A18-144 | 144 | 2.2500 | 2.281 |
| C64S18-160 | C64A18-160 | 160 | 2.5000 | 2.531 |
| C64S18-176 | C64A18-176 | 176 | 2.7500 | 2.781 |
| C64S18-180 | C64A18-180 | 180 | 2.8125 | 2.843 |
| C64S18-192 | C64A18-192 | 192 | 3.0000 | 3.031 |
| C64S18-224 | C64A18-224 | 224 | 3.5000 | 3.531 |
| C64S18-256 | C64A18-256 | 256 | 4.0000 | 4.031 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

GEAR RACKS

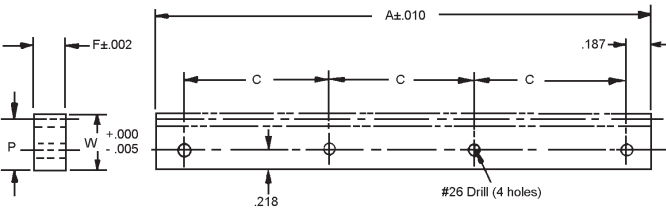
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 64 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|----------|----|------|--------------|
| R2-18 | ROUND | 64 | .2044 | .2497 | 11 | .220 | 10 |
| R2-14 | RECTANGULAR | 64 | .4644 | 230±.005 | 11 | .480 | 10 |

Available on request: 14 - 1/2° pressure angle, special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 64 | RECTANGULAR | 416 SERIES STAINLESS AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

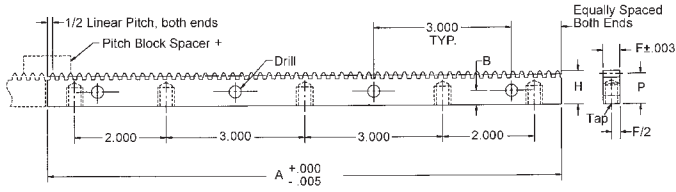


| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|------------------------|----------|----------|------|------|-------|
| R4-15 | STAINLESS ST. ALUMINUM | 7" | .4644 | .480 | .230 | 2.208 |
| R4-16 | | | | | | |

Available on request: special, modified and custom racks.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 64 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



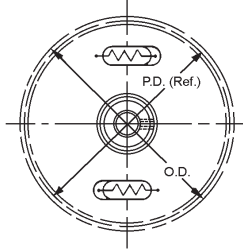
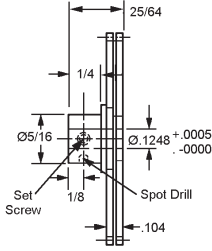
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | | SPACER BLOCK | | | | | | | | | | | |
|-----------|-----------|---------------|------------------|----------------------|-------|--------------|--------|--------|----------------|------|------|-------|-------------|
| STOCK NO. | STOCK NO. | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 - .005 | F | B | DRILL | TAP |
| R1-8-G1 | R1-8-SB | 10* | .0014 | .0005 | 64 | .0491 | 11.038 | .4594 | .475 | .230 | .218 | #26 | #6-32 X 1/4 |
| R3-5-G1 | R3-5-SB | 10* | .0014 | .0005 | 64 | .0491 | 11.038 | .4644 | .480 | .230 | .218 | #26 | #6-32 X 1/4 |

* Higher quality on request.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 64 | PIN HUB | 1/8" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. +.031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AP64SS-52 | AP64TS-52 | 52 | .8125 |
| AP64SS-55 | AP64TS-55 | 55 | .8593 |
| AP64SS-56 | AP64TS-56 | 56 | .8750 |
| AP64SS-60 | AP64TS-60 | 60 | .9375 |
| AP64SS-64 | AP64TS-64 | 64 | 1.0000 |
| AP64SS-68 | AP64TS-68 | 68 | 1.0625 |
| AP64SS-70 | AP64TS-70 | 70 | 1.0937 |
| AP64SS-75 | AP64TS-75 | 75 | 1.1718 |
| AP64SS-80 | AP64TS-80 | 80 | 1.2500 |
| AP64S-85 | AP64T-85 | 85 | 1.3281 |
| AP64S-90 | AP64T-90 | 90 | 1.4062 |
| AP64S-95 | AP64T-95 | 95 | 1.4843 |
| AP64S-96 | AP64T-96 | 96 | 1.5000 |
| AP64S-100 | AP64T-100 | 100 | 1.5625 |
| AP64S-105 | AP64T-105 | 105 | 1.6406 |
| AP64S-108 | AP64T-108 | 108 | 1.6875 |
| AP64S-110 | AP64T-110 | 110 | 1.7187 |
| AP64S-115 | AP64T-115 | 115 | 1.7968 |
| AP64S-120 | AP64T-120 | 120 | 1.8750 |
| AP64S-125 | AP64T-125 | 125 | 1.9531 |
| AP64S-128 | AP64T-128 | 128 | 2.0000 |
| AP64S-130 | AP64T-130 | 130 | 2.0312 |
| AP64S-140 | AP64T-140 | 140 | 2.1875 |
| AP64S-150 | AP64T-150 | 150 | 2.3437 |
| AP64S-160 | AP64T-160 | 160 | 2.5000 |
| AP64S-170 | AP64T-170 | 170 | 2.6562 |
| AP64S-176 | AP64T-176 | 176 | 2.7500 |
| AP64S-180 | AP64T-180 | 180 | 2.8125 |
| AP64S-190 | AP64T-190 | 190 | 2.9687 |
| AP64S-192 | AP64T-192 | 192 | 3.0000 |
| AP64S-200 | AP64T-200 | 200 | 3.1250 |

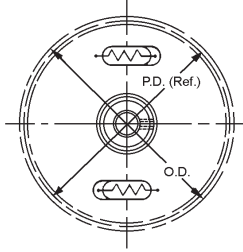
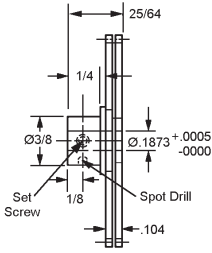
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|-------|--|--------------|-------------|
| 64 | PIN HUB | 3/16" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. +.031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP64US-60 | AP64VS-60 | 60 | .9375 |
| AP64US-64 | AP64VS-64 | 64 | 1.0000 |
| AP64US-68 | AP64VS-68 | 68 | 1.0625 |
| AP64US-70 | AP64VS-70 | 70 | 1.0937 |
| AP64US-75 | AP64VS-75 | 75 | 1.1718 |
| AP64US-80 | AP64VS-80 | 80 | 1.2500 |
| AP64U-85 | AP64V-85 | 85 | 1.3281 |
| AP64U-90 | AP64V-90 | 90 | 1.4062 |
| AP64U-95 | AP64V-95 | 95 | 1.4843 |
| AP64U-96 | AP64V-96 | 96 | 1.5000 |
| AP64U-100 | AP64V-100 | 100 | 1.5625 |
| AP64U-105 | AP64V-105 | 105 | 1.6406 |
| AP64U-108 | AP64V-108 | 108 | 1.6875 |
| AP64U-110 | AP64V-110 | 110 | 1.7187 |
| AP64U-115 | AP64V-115 | 115 | 1.7968 |
| AP64U-120 | AP64V-120 | 120 | 1.8750 |
| AP64U-125 | AP64V-125 | 125 | 1.9531 |
| AP64U-128 | AP64V-128 | 128 | 2.0000 |
| AP64U-130 | AP64V-130 | 130 | 2.0312 |
| AP64U-140 | AP64V-140 | 140 | 2.1875 |
| AP64U-150 | AP64V-150 | 150 | 2.3437 |
| AP64U-160 | AP64V-160 | 160 | 2.5000 |
| AP64U-170 | AP64V-170 | 170 | 2.6562 |
| AP64U-176 | AP64V-176 | 176 | 2.7500 |
| AP64U-180 | AP64V-180 | 180 | 2.8125 |
| AP64U-190 | AP64V-190 | 190 | 2.9687 |
| AP64U-192 | AP64V-192 | 192 | 3.0000 |
| AP64U-200 | AP64V-200 | 200 | 3.1250 |

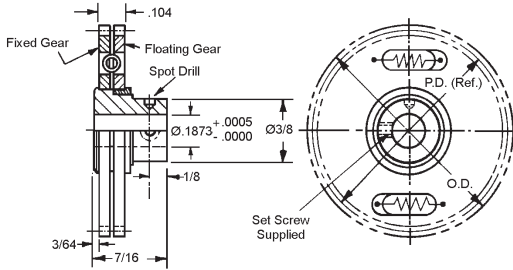
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14 (some dimensions may vary);
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|-------|--|--------------|-------------|
| 64 | PIN HUB | 3/16" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO.OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|---------------------------|-----------------------------|-------------|------------|--------------|--------------|
| AP64CS-37 | - | 37 | .5781 | .609 | SCISSOR |
| AP64CS-40 | - | 40 | .6250 | .656 | |
| AP64CS-48 | AP64PS-48 | 48 | .7500 | .781 | |
| AP64CS-56 | AP64PS-56 | 56 | .8750 | .906 | |
| AP64CS-60 | AP64PS-60 | 60 | .9375 | .968 | |
| AP64C-64 | AP64P-64 | 64 | 1.0000 | 1.031 | |
| AP64C-72 | AP64P-72 | 72 | 1.1250 | 1.156 | |
| AP64C-80 | AP64P-80 | 80 | 1.2500 | 1.281 | |
| AP64C-88 | AP64P-88 | 88 | 1.3750 | 1.406 | |
| AP64C-90 | AP64P-90 | 90 | 1.4062 | 1.437 | |
| AP64C-92 | AP64P-92 | 92 | 1.4375 | 1.468 | |
| AP64C-96 | AP64P-96 | 96 | 1.5000 | 1.531 | |
| AP64C-100 | AP64P-100 | 100 | 1.5625 | 1.593 | |
| AP64C-110 | AP64P-110 | 110 | 1.7187 | 1.750 | |
| AP64C-120 | AP64P-120 | 120 | 1.8750 | 1.906 | |
| AP64C-128 | AP64P-128 | 128 | 2.0000 | 2.031 | |
| AP64C-130 | AP64P-130 | 130 | 2.0312 | 2.062 | |
| AP64C-140 | AP64P-140 | 140 | 2.1875 | 2.218 | |
| AP64C-150 | AP64P-150 | 150 | 2.3437 | 2.375 | |
| AP64C-160 | AP64P-160 | 160 | 2.5000 | 2.531 | |
| AP64C-180 | AP64P-180 | 180 | 2.8125 | 2.843 | |
| AP64C-192 | AP64P-192 | 192 | 3.0000 | 3.031 | |

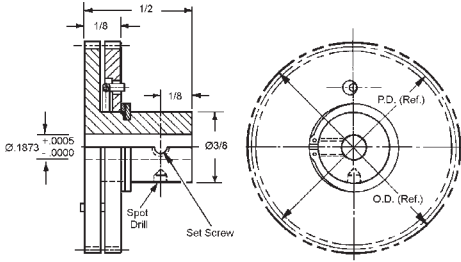
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|------|--|--------------|-------------|
| 64 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

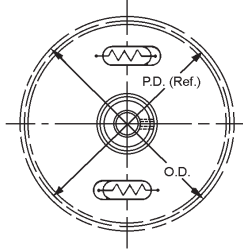
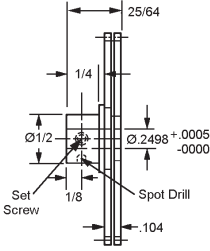
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|--------------|-------|------------|--------------|
| AP64HS-40 | AP64JS-40 | 40 | | .6250 | .656 |
| AP64HS-48 | AP64JS-48 | 48 | .1873 | .7500 | .781 |
| AP64HS-64 | AP64JS-64 | 64 | | 1.0000 | 1.031 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 64 | PIN HUB | 1/4" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. +.031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP64WS-68 | AP64XS-68 | 68 | 1.0625 |
| AP64WS-70 | AP64XS-70 | 70 | 1.0937 |
| AP64WS-75 | AP64XS-75 | 75 | 1.1718 |
| AP64WS-80 | AP64XS-80 | 80 | 1.2500 |
| AP64W-85 | AP64X-85 | 85 | 1.3281 |
| AP64W-90 | AP64X-90 | 90 | 1.4062 |
| AP64W-95 | AP64X-95 | 95 | 1.4843 |
| AP64W-96 | AP64X-96 | 96 | 1.5000 |
| AP64W-100 | AP64X-100 | 100 | 1.5625 |
| AP64W-105 | AP64X-105 | 105 | 1.6406 |
| AP64W-108 | AP64X-108 | 108 | 1.6875 |
| AP64W-110 | AP64X-110 | 110 | 1.7187 |
| AP64W-115 | AP64X-115 | 115 | 1.7968 |
| AP64W-120 | AP64X-120 | 120 | 1.8750 |
| AP64W-125 | AP64X-125 | 125 | 1.9531 |
| AP64W-128 | AP64X-128 | 128 | 2.0000 |
| AP64W-130 | AP64X-130 | 130 | 2.0312 |
| AP64W-140 | AP64X-140 | 140 | 2.1875 |
| AP64W-150 | AP64X-150 | 150 | 2.3437 |
| AP64W-160 | AP64X-160 | 160 | 2.5000 |
| AP64W-170 | AP64X-170 | 170 | 2.6562 |
| AP64W-176 | AP64X-176 | 176 | 2.7500 |
| AP64W-180 | AP64X-180 | 180 | 2.8125 |
| AP64W-190 | AP64X-190 | 190 | 2.9687 |
| AP64W-192 | AP64X-192 | 192 | 3.0000 |
| AP64W-200 | AP64X-200 | 200 | 3.1250 |

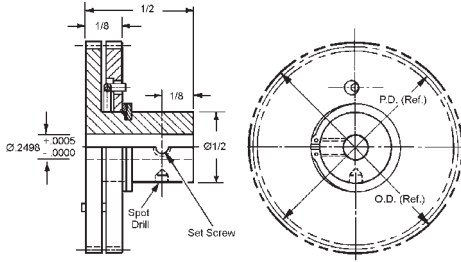
Available on request:

- Other numbers of teeth;
- AGMA Quality 12 and 14 (some dimensions may vary);
- 14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 64 | PIN HUB | 1/4" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

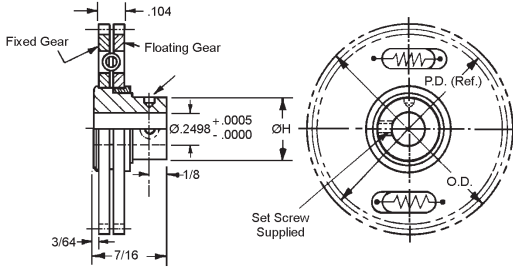
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|--------------|-------|------------|--------------|
| AP64KS-48 | AP64LS-48 | 48 | .2498 | .7500 | .781 |
| AP64KS-64 | AP64LS-64 | 64 | | 1.0000 | 1.031 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 64 | PIN HUB | 1/4" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



HUB MATERIAL: 303 Stainless Steel

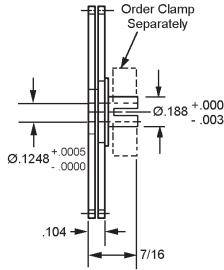
| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE | H |
|---------------------------|-----------------------------|--------------|------------|--------------|--------------|------|
| AP64ES-38 | - | 38 | .5937 | .625 | SCISSOR | 3/8 |
| AP64ES-40 | - | 40 | .6250 | .656 | | |
| AP64ES-48 | AP64RS-48 | 48 | .7500 | .781 | | |
| AP64ES-56 | AP64RS-56 | 56 | .8750 | .906 | | |
| AP64ES-60 | AP64RS-60 | 60 | .9375 | .968 | | |
| AP64ES-62 | AP64RS-62 | 62 | .9687 | 1.000 | | |
| AP64E-64 | AP64R-64 | 64 | 1.0000 | 1.031 | COIL | 7/16 |
| AP64E-70 | AP64R-70 | 70 | 1.0937 | 1.125 | | |
| AP64E-72 | AP64R-72 | 72 | 1.1250 | 1.156 | | |
| AP64E-80 | AP64R-80 | 80 | 1.2500 | 1.281 | | |
| AP64E-84 | AP64R-84 | 84 | 1.3125 | 1.343 | | |
| AP64E-88 | AP64R-88 | 88 | 1.3750 | 1.406 | | |
| AP64E-96 | AP64R-96 | 96 | 1.5000 | 1.531 | | |
| AP64E-100 | AP64R-100 | 100 | 1.5625 | 1.593 | | |
| AP64E-105 | AP64R-105 | 105 | 1.6406 | 1.671 | | |
| AP64E-110 | AP64R-110 | 110 | 1.7187 | 1.750 | | |
| AP64E-120 | AP64R-120 | 120 | 1.8750 | 1.906 | | |
| AP64E-128 | AP64R-128 | 128 | 2.0000 | 2.031 | | |
| AP64E-140 | AP64R-140 | 140 | 2.1875 | 2.218 | | |
| AP64E-144 | AP64R-144 | 144 | 2.2500 | 2.281 | | |
| AP64E-160 | AP64R-160 | 160 | 2.5000 | 2.531 | | |
| AP64E-176 | AP64R-176 | 176 | 2.7500 | 2.781 | | |
| AP64E-180 | AP64R-180 | 180 | 2.8125 | 2.843 | | |
| AP64E-192 | AP64R-192 | 192 | 3.0000 | 3.031 | | |

Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------|------|-------|--|--------------|-------------|
| 64 | CLAMP STYLE | 1/8" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. +.031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AC64SS-52 | AC64TS-52 | 52 | .8125 |
| AC64SS-55 | AC64TS-55 | 55 | .8593 |
| AC64SS-56 | AC64TS-56 | 56 | .8750 |
| AC64SS-60 | AC64TS-60 | 60 | .9375 |
| AC64SS-64 | AC64TS-64 | 64 | 1.0000 |
| AC64SS-68 | AC64TS-68 | 68 | 1.0625 |
| AC64SS-70 | AC64TS-70 | 70 | 1.0937 |
| AC64SS-75 | AC64TS-75 | 75 | 1.1718 |
| AC64SS-80 | AC64TS-80 | 80 | 1.2500 |
| AC64S-85 | AC64T-85 | 85 | 1.3281 |
| AC64S-90 | AC64T-90 | 90 | 1.4062 |
| AC64S-95 | AC64T-95 | 95 | 1.4843 |
| AC64S-96 | AC64T-96 | 96 | 1.5000 |
| AC64S-100 | AC64T-100 | 100 | 1.5625 |
| AC64S-105 | AC64T-105 | 105 | 1.6406 |
| AC64S-108 | AC64T-108 | 108 | 1.6875 |
| AC64S-110 | AC64T-110 | 110 | 1.7187 |
| AC64S-115 | AC64T-115 | 115 | 1.7968 |
| AC64S-120 | AC64T-120 | 120 | 1.8750 |
| AC64S-125 | AC64T-125 | 125 | 1.9531 |
| AC64S-128 | AC64T-128 | 128 | 2.0000 |
| AC64S-130 | AC64T-130 | 130 | 2.0312 |
| AC64S-140 | AC64T-140 | 140 | 2.1875 |
| AC64S-150 | AC64T-150 | 150 | 2.3437 |
| AC64S-160 | AC64T-160 | 160 | 2.5000 |
| AC64S-170 | AC64T-170 | 170 | 2.6562 |
| AC64S-176 | AC64T-176 | 176 | 2.7500 |
| AC64S-180 | AC64T-180 | 180 | 2.8125 |
| AC64S-190 | AC64T-190 | 190 | 2.9687 |
| AC64S-192 | AC64T-192 | 192 | 3.0000 |
| AC64S-200 | AC64T-200 | 200 | 3.1250 |

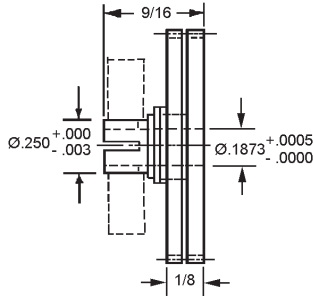
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 64 | CLAMP STYLE | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material:
303 Stainless Steel

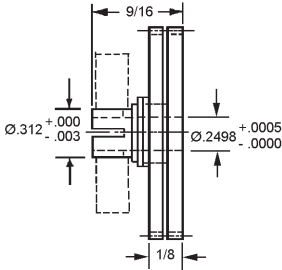
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-------|-----------------|---------------|-----------------|
| AC64HS-40 | AC64JS-40 | 64 | 40 | .6250 | .656 |
| AC64HS-48 | AC64JS-48 | | 48 | .7500 | .781 |
| AC64HS-64 | AC64JS-64 | | 64 | 1.0000 | 1.031 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 64 | CLAMP STYLE | 1/4" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material:
303 Stainless Steel

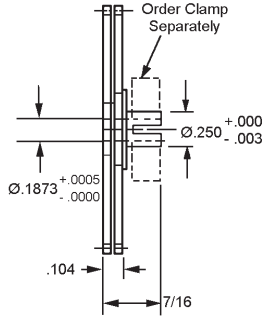
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-------|-----------------|---------------|-----------------|
| AC64KS-48 | AC64LS-48 | 64 | 48 | 0.7500 | .781 |
| AC64KS-64 | AC64LS-64 | | 64 | 1.0000 | 1.031 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 64 | CLAMP STYLE | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. +.031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC64US-60 | AC64VS-60 | 60 | .9375 |
| AC64US-64 | AC64VS-64 | 64 | 1.0000 |
| AC64US-68 | AC64VS-68 | 68 | 1.0625 |
| AC64US-70 | AC64VS-70 | 70 | 1.0937 |
| AC64US-75 | AC64VS-75 | 75 | 1.1718 |
| AC64US-80 | AC64VS-80 | 80 | 1.2500 |
| AC64U-85 | AC64V-85 | 85 | 1.3281 |
| AC64U-90 | AC64V-90 | 90 | 1.4062 |
| AC64U-95 | AC64V-95 | 95 | 1.4843 |
| AC64U-96 | AC64V-96 | 96 | 1.5000 |
| AC64U-100 | AC64V-100 | 100 | 1.5625 |
| AC64U-105 | AC64V-105 | 105 | 1.6406 |
| AC64U-108 | AC64V-108 | 108 | 1.6875 |
| AC64U-110 | AC64V-110 | 110 | 1.7187 |
| AC64U-115 | AC64V-115 | 115 | 1.7968 |
| AC64U-120 | AC64V-120 | 120 | 1.8750 |
| AC64U-125 | AC64V-125 | 125 | 1.9531 |
| AC64U-128 | AC64V-128 | 128 | 2.0000 |
| AC64U-130 | AC64V-130 | 130 | 2.0312 |
| AC64U-140 | AC64V-140 | 140 | 2.1875 |
| AC64U-150 | AC64V-150 | 150 | 2.3437 |
| AC64U-160 | AC64V-160 | 160 | 2.5000 |
| AC64U-170 | AC64V-170 | 170 | 2.6562 |
| AC64U-176 | AC64V-176 | 176 | 2.7500 |
| AC64U-180 | AC64V-180 | 180 | 2.8125 |
| AC64U-190 | AC64V-190 | 190 | 2.9687 |
| AC64U-192 | AC64V-192 | 192 | 3.0000 |
| AC64U-200 | AC64V-200 | 200 | 3.1250 |

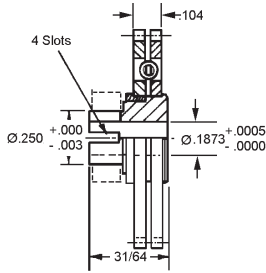
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 64 | CLAMP STYLE | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|------------------------------------|-----------------------------------|-----------------|---------------|-----------------|-----------------|
| AC64CS-37 | - | 37 | .5781 | .609 | SCISSOR |
| AC64CS-40 | - | 40 | .6250 | .656 | |
| AC64CS-48 | AC64PS-48 | 48 | .7500 | .781 | |
| AC64CS-56 | AC64PS-56 | 56 | .8750 | .906 | |
| AC64CS-60 | AC64PS-60 | 60 | .9375 | .968 | |
| AC64C-64 | AC64P-64 | 64 | 1.0000 | 1.031 | |
| AC64C-72 | AC64P-72 | 72 | 1.1250 | 1.156 | |
| AC64C-80 | AC64P-80 | 80 | 1.2500 | 1.281 | |
| AC64C-88 | AC64P-88 | 88 | 1.3750 | 1.406 | |
| AC64C-90 | AC64P-90 | 90 | 1.4062 | 1.437 | |
| AC64C-92 | AC64P-92 | 92 | 1.4375 | 1.468 | COIL |
| AC64C-96 | AC64P-96 | 96 | 1.5000 | 1.531 | |
| AC64C-100 | AC64P-100 | 100 | 1.5625 | 1.593 | |
| AC64C-110 | AC64P-110 | 110 | 1.7187 | 1.750 | |
| AC64C-120 | AC64P-120 | 120 | 1.8750 | 1.906 | |
| AC64C-128 | AC64P-128 | 128 | 2.0000 | 2.031 | |
| AC64C-130 | AC64P-130 | 130 | 2.0312 | 2.062 | |
| AC64C-140 | AC64P-140 | 140 | 2.1875 | 2.218 | |
| AC64C-150 | AC64P-150 | 150 | 2.3437 | 2.375 | |
| AC64C-160 | AC64P-160 | 160 | 2.5000 | 2.531 | |
| AC64C-180 | AC64P-180 | 180 | 2.8125 | 2.843 | |
| AC64C-192 | AC64P-192 | 192 | 3.0000 | 3.031 | |

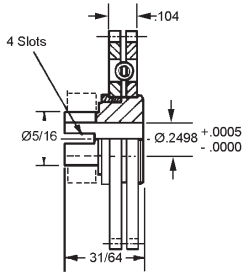
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 64 | CLAMP STYLE | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|------------------------------------|-----------------------------------|-----------------|---------------|-----------------|-----------------|
| AC64ES-38 | - | 38 | .5937 | .625 | SCISSOR |
| AC64ES-40 | - | 40 | .6250 | .656 | |
| AC64ES-48 | AC64RS-48 | 48 | .7500 | .781 | |
| AC64ES-56 | AC64RS-56 | 56 | .8750 | .906 | |
| AC64ES-60 | AC64RS-60 | 60 | .9375 | .968 | |
| AC64ES-62 | AC64RS-62 | 62 | .9687 | 1.000 | |
| AC64E-64 | AC64R-64 | 64 | 1.0000 | 1.031 | COIL |
| AC64E-70 | AC64R 70 | 70 | 1.0937 | 1.125 | |
| AC64E-72 | AC64R-72 | 72 | 1.1250 | 1.156 | |
| AC64E-80 | AC64R-80 | 80 | 1.2500 | 1.281 | |
| AC64E-84 | AC64R-84 | 84 | 1.3125 | 1.343 | |
| AC64E-88 | AC64R-88 | 88 | 1.3750 | 1.406 | |
| AC64E-96 | AC64R-96 | 96 | 1.5000 | 1.531 | |
| AC64E-100 | AC64R-100 | 100 | 1.5625 | 1.593 | |
| AC64E-105 | AC64R-105 | 105 | 1.6406 | 1.671 | |
| AC64E-110 | AC64R-110 | 110 | 1.7187 | 1.750 | |
| AC64E-120 | AC64R-120 | 120 | 1.8750 | 1.906 | |
| AC64E-128 | AC64R-128 | 128 | 2.0000 | 2.031 | |
| AC64E-140 | AC64R-140 | 140 | 2.1875 | 2.218 | |
| AC64E-144 | AC64R-144 | 144 | 2.2500 | 2.281 | |
| AC64E-160 | AC64R-160 | 160 | 2.5000 | 2.531 | |
| AC64E-176 | AC64R-176 | 176 | 2.7500 | 2.781 | |
| AC64E-180 | AC64R-180 | 180 | 2.8125 | 2.843 | |
| AC64E-192 | AC64R-192 | 192 | 3.0000 | 3.031 | |

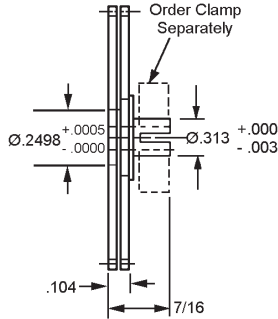
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 64 | CLAMP STYLE | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. +.031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC64WS-68 | AC64XS-68 | 68 | 1.0625 |
| AC64WS-70 | AC64XS-70 | 70 | 1.0937 |
| AC64WS-75 | AC64XS-75 | 75 | 1.1718 |
| AC64WS-80 | AC64XS-80 | 80 | 1.2500 |
| AC64W-85 | AC64X-85 | 85 | 1.3281 |
| AC64W-90 | AC64X-90 | 90 | 1.4062 |
| AC64W-95 | AC64X-95 | 95 | 1.4843 |
| AC64W-96 | AC64X-96 | 96 | 1.5000 |
| AC64W-100 | AC64X-100 | 100 | 1.5625 |
| AC64W-105 | AC64X-105 | 105 | 1.6406 |
| AC64W-108 | AC64X-108 | 108 | 1.6875 |
| AC64W-110 | AC64X-110 | 110 | 1.7187 |
| AC64W-115 | AC64X-115 | 115 | 1.7968 |
| AC64W-120 | AC64X-120 | 120 | 1.8750 |
| AC64W-125 | AC64X-125 | 125 | 1.9531 |
| AC64W-128 | AC64X-128 | 128 | 2.0000 |
| AC64W-130 | AC64X-130 | 130 | 2.0312 |
| AC64W-140 | AC64X-140 | 140 | 2.1875 |
| AC64W-150 | AC64X-150 | 150 | 2.3437 |
| AC64W-160 | AC64X-160 | 160 | 2.5000 |
| AC64W-170 | AC64X-170 | 170 | 2.6562 |
| AC64W-176 | AC64X-176 | 176 | 2.7500 |
| AC64W-180 | AC64X-180 | 180 | 2.8125 |
| AC64W-190 | AC64X-190 | 190 | 2.9687 |
| AC64W-192 | AC64X-192 | 192 | 3.0000 |
| AC64W-200 | AC64X-200 | 200 | 3.1250 |

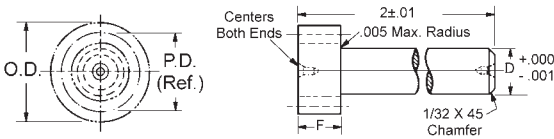
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

PINION SHAFTS

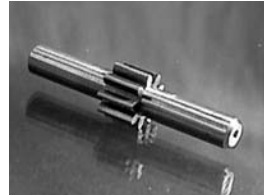
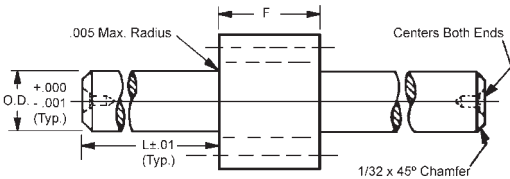
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|--------------------------------|--------------|-------------|
| 64 | BRASS AND COLD ROLLED STEEL | 5 | 20° |



| 303 STAINLESS STEEL STOCK NO. | BRASS ALLOY 360 STOCK NO. | NUMBER OF TEETH | PITCH DIAMETER | OUTSIDE DIAMETER | D | F |
|---|---------------------------------------|--------------------|-------------------|---------------------|------|------|
| PSX64S-12 | PSX64B-12 | 12 | .1875 | .218 | .125 | |
| PSX64S-14 | PSX64B-14 | 14 | .2188 | .250 | .125 | |
| PSX64S-15 | PSX64B-15 | 15 | .2344 | .265 | .187 | 3/16 |
| PSX64S-16 | PSX64B-16 | 16 | .2500 | .281 | .187 | |
| PSX64S-18 | PSX64B-18 | 18 | .2813 | .312 | .187 | |

Made from extruded pinion stock.
Specials made to order - send sketch.

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|--------------------------------|--------------|-------------|
| 64 | BRASS AND COLD ROLLED STEEL | 5 | 20° |

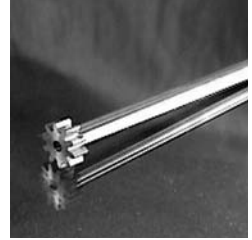
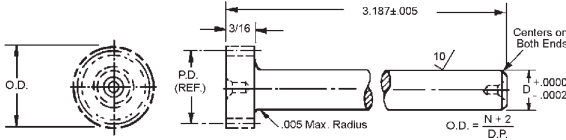


| COLD ROLLED STEEL 12L14 OR 12L15 W/SELENIUM STOCK NO. | BRASS ALLOY 360 STOCK NO. | NUMBER OF TEETH | PITCH DIAMETER | OUTSIDE DIAMETER | D | F | L |
|---|---------------------------------------|--------------------|-------------------|---------------------|------|------|-----|
| PSW64S-12 | PSW64B-12 | 12 | .1875 | .218 | | | |
| PSW64S-14 | PSW64B-14 | 14 | .2188 | .250 | | | |
| PSW64S-15 | PSW64B-15 | 15 | .2344 | .265 | .125 | 3/16 | 3/8 |
| PSW64S-16 | PSW64B-16 | 16 | .2500 | .281 | | | |
| PSW64S-18 | PSW64B-18 | 18 | .2813 | .312 | | | |

Made from extruded pinion stock.
Specials made to order - send sketch.

PINION SHAFTS

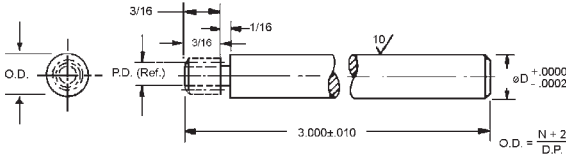
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 64 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS64S2-16H | 64 | 16 | .2500 | .1247 |
| PS64S3-16H | | 16 | .2500 | .1872 |
| PS64S4-16H | | 16 | .2500 | .2497 |
| PS64S4-18H | | 18 | .2812 | .2497 |
| PS64S2-20H | | 20 | .3125 | .1247 |
| PS64S3-20H | | 20 | .3125 | .1872 |
| PS64S4-20H | | 20 | .3125 | .2497 |
| PS64S4-22H | | 22 | .3437 | .2497 |
| PS64S4-24H | | 24 | .3750 | .2497 |

Other numbers of teeth available on request.

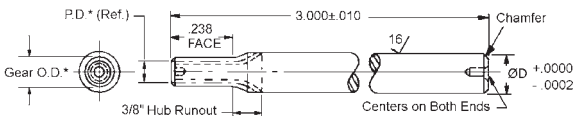
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 64 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|-----------|-------|--------------|------------|-------|
| PS64S4-12 | 64 | 12 | .1875 | .2497 |
| PS64S4-14 | 64 | 14 | .2187 | .2497 |

Other numbers of teeth available on request.

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 64 | 303 STAINLESS STEEL | 10 | 20° |

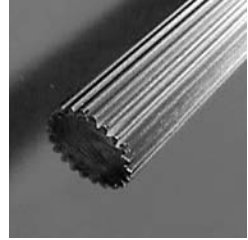
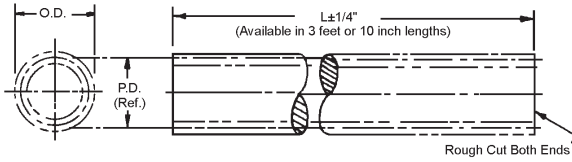


| STOCK NO. | PITCH | NO. OF TEETH | D | ENLARGED | |
|-------------|-------|--------------|-------|----------------|--------------|
| | | | | PITCH DIAMETER | OUTSIDE DIA. |
| B-PS64S4-10 | 64 | 10 | .2497 | .1692 | .200 |
| B-PS64S4-11 | | 11 | | .1830 | .214 |
| B-PS64S4-12 | | 12 | | .1968 | .228 |
| B-PS64S4-13 | | 13 | | .2106 | .241 |
| B-PS64S5-15 | 64 | 15 | .3122 | .2382 | .269 |

Other numbers of teeth available on request.

SPUR GEAR STOCK

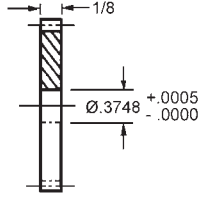
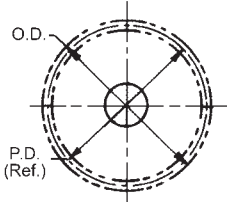
| PITCH | TYPE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--------------------------------|--------------|----------------|
| 64 | PINION WIRE | BRASS AND COLD ROLLED STEEL | 4 | 20° |



| BRASS ALLOY 360 | | COLD ROLLED STEEL 12L-14 or 12L-15 WITH SELENIUM | | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|-----------------------------|--|-----------------------------|-----------------|---------------|-----------------|
| 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | 3FT. LONG STOCK NO. | 10 IN. LONG STOCK NO. | | | |
| PW64B-8 | PW64B-8A | PW64S-8 | PW64S-8A | 8 | .1250 | .156 |
| PW64B-9 | PW64B-9A | PW64S-9 | PW64S-9A | 9 | .1406 | .171 |
| PW64B-10 | PW64B-10A | PW64S-10 | PW64S-10A | 10 | .1562 | .187 |
| PW64B-11 | PW64B-11A | PW64S-11 | PW64S-11A | 11 | .1718 | .203 |
| PW64B-12 | PW64B-12A | PW64S-12 | PW64S-12A | 12 | .1875 | .218 |
| PW64B-14 | PW64B-14A | PW64S-14 | PW64S-14A | 14 | .2187 | .250 |
| PW64B-15 | PW64B-15A | PW64S-15 | PW64S-15A | 15 | .2343 | .265 |
| PW64B-16 | PW64B-16A | PW64S-16 | PW64S-16A | 16 | .2500 | .281 |
| PW64B-18 | PW64B-18A | PW64S-18 | PW64S-18A | 18 | .2812 | .312 |
| PW64B-20 | PW64B-20A | PW64S-20 | PW64S-20A | 20 | .3125 | .343 |
| PW64B-24 | PW64B-24A | - | - | 24 | .3750 | .406 |
| PW64B-28 | PW64B-28A | - | - | 28 | .4375 | .468 |
| PW64B-36 | PW64B-36A | - | - | 36 | .5625 | .593 |
| PW64B-40 | PW64B-40A | - | - | 40 | .6250 | .656 |
| PW64B-48 | PW64B-48A | - | - | 48 | .7500 | .781 |

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 72 | HUBLESS | 3/8" | 1/8" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

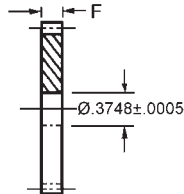
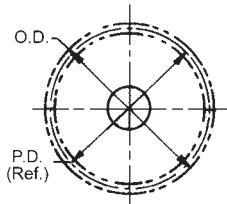


Available on request:

Other numbers of teeth;
Pin or Clamp hubs assembled
AGMA Quality 12 and 14;
14-12° pressure angle.

| STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|-------------------------------------|--------------|------------|--------------|
| F72S3-72 | F72A3-72 | 72 | 1.0000 | 1.027 |
| F72S3-80 | F72A3-80 | 80 | 1.1111 | 1.138 |
| F72S3-81 | F72A3-81 | 81 | 1.1250 | 1.152 |
| F72S3-90 | F72A3-90 | 90 | 1.2500 | 1.277 |
| F72S3-96 | F72A3-96 | 96 | 1.3333 | 1.361 |
| F72S3-99 | F72A3-99 | 99 | 1.3750 | 1.402 |
| F72S3-100 | F72A3-100 | 100 | 1.3888 | 1.416 |
| F72S3-108 | F72A3-108 | 108 | 1.5000 | 1.527 |
| F72S3-115 | F72A3-115 | 115 | 1.5972 | 1.625 |
| F72S3-130 | F72A3-130 | 130 | 1.8055 | 1.833 |
| F72S3-135 | F72A3-135 | 135 | 1.8750 | 1.902 |
| F72S3-140 | F72A3-140 | 140 | 1.9444 | 1.972 |
| F72S3-144 | F72A3-144 | 144 | 2.0000 | 2.027 |
| F72S3-150 | F72A3-150 | 150 | 2.0833 | 2.111 |
| F72S3-160 | F72A3-160 | 160 | 2.2222 | 2.250 |
| F72S3-180 | F72A3-180 | 180 | 2.5000 | 2.527 |
| F72S3-192 | F72A3-192 | 192 | 2.6666 | 2.694 |
| F72S3-200 | F72A3-200 | 200 | 2.7777 | 2.805 |
| F72S3-216 | F72A3-216 | 216 | 3.0000 | 3.027 |
| F72S3-288 | F72A3-288 | 288 | 4.0000 | 4.027 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|--------------|--------------|----------------|
| 72 | HUBLESS | 3/8" | 1/8" | POLYURETHANE | 8 | 20° |



Available on request:

Other numbers of teeth;
14-12° pressure angle.

| STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|--------------|------------|--------------|
| F72U3-72 | 72 | 1.0000 | 1.027 |
| F72U3-96 | 96 | 1.3333 | 1.361 |
| F72U3-100 | 100 | 1.3888 | 1.416 |
| F72U3-108 | 108 | 1.5000 | 1.527 |
| F72U3-120 | 120 | 1.6666 | 1.694 |
| F72U3-125 | 125 | 1.7361 | 1.763 |
| F72U3-135 | 135 | 1.8750 | 1.902 |
| F72U3-140 | 140 | 1.9444 | 1.972 |
| F72U3-150 | 150 | 2.0833 | 2.111 |

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 72 | X | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

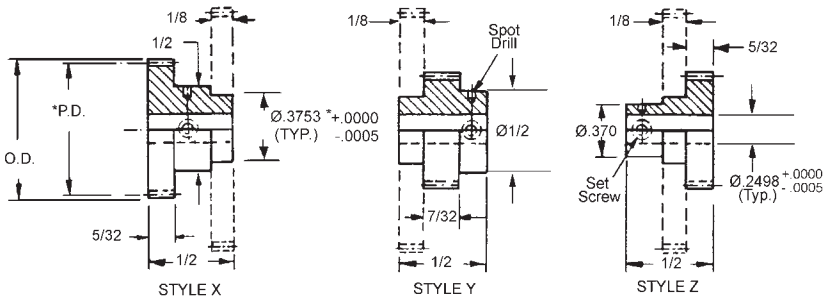
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP72S14-30 | 72 | 30 | .4166 | .444 |
| DP72S14-36 | | 36 | .5000 | .528 |
| DP72S14-40 | | 40 | .5555 | .583 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 72 | Y | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP72S16-30 | 72 | 30 | .4166 | .444 |
| DP72S16-36 | | 36 | .5000 | .528 |
| DP72S16-40 | | 40 | .5555 | .583 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 72 | Z | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP72S18-30 | 72 | 30 | .4166 | .444 |
| DP72S18-36 | | 36 | .5000 | .528 |
| DP72S18-40 | | 40 | .5555 | .583 |



*Concentric within .0003
Order hubless gear separately.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 72 | X | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

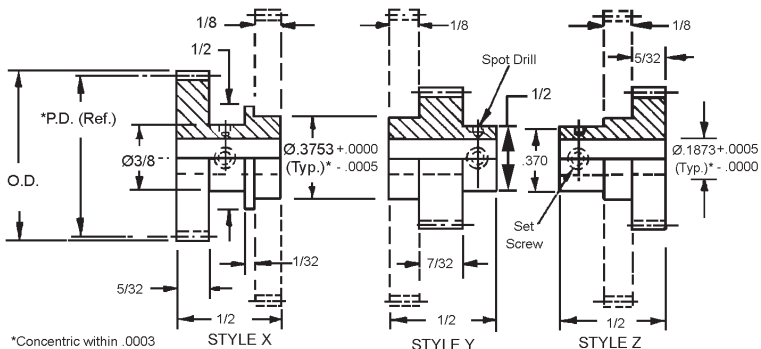
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|-------|--------------|------------|--------------|
| DP72S8-30 | 72 | 30 | .4166 | .444 |
| DP72S8-32 | | 32 | .4444 | .472 |
| DP72S8-34 | | 34 | .4722 | .500 |
| DP72S8-35 | | 35 | .4861 | .514 |
| DP72S8-36 | | 36 | .5000 | .528 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 72 | Y | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP72S10-30 | 72 | 30 | .4166 | .444 |
| DP72S10-32 | | 32 | .4444 | .472 |
| DP72S10-34 | | 34 | .4722 | .500 |
| DP72S10-35 | | 35 | .4861 | .514 |
| DP72S10-36 | | 36 | .5000 | .528 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 72 | Z | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP72S12-30 | 72 | 30 | .4166 | .444 |
| DP72S12-32 | | 32 | .4444 | .472 |
| DP72S12-34 | | 34 | .4722 | .500 |
| DP72S12-35 | | 35 | .4861 | .514 |
| DP72S12-36 | | 36 | .5000 | .528 |

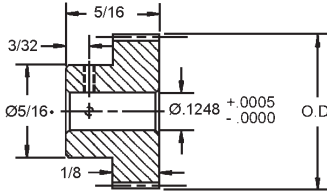
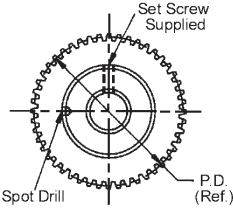


• Hub runout cuts thru shoulder.

Available on request: Other numbers of teeth; AGMA quality 12 and 14; 14-1/2° Pressure Angle.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 72 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



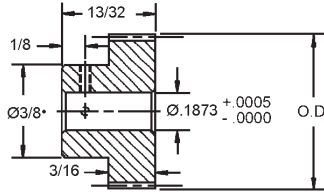
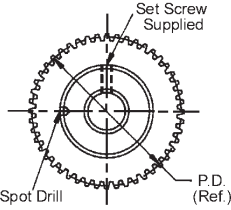
- For 20-25 teeth hub diameter equals .24
Available on request, other numbers of
teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| P72S10-20 | P72A10-20 | 20• | .2777 | .305 |
| P72S10-22 | P72A10-22 | 22• | .3055 | .333 |
| P72S10-23 | P72A10-23 | 23• | .3194 | .347 |
| P72S10-24 | P72A10-24 | 24• | .3333 | .361 |
| P72S10-25 | P72A10-25 | 25• | .3472 | .375 |
| P72S10-26 | P72A10-26 | 26 | .3611 | .388 |
| P72S10-27 | P72A10-27 | 27 | .3750 | .402 |
| P72S10-28 | P72A10-28 | 28 | .3888 | .416 |
| P72S10-29 | P72A10-29 | 29 | .4027 | .430 |
| P72S10-30 | P72A10-30 | 30 | .4166 | .444 |
| P72S10-32 | P72A10-32 | 32 | .4444 | .472 |
| P72S10-34 | P72A10-34 | 34 | .4722 | .500 |
| P72S10-36 | P72A10-36 | 36 | .5000 | .527 |
| P72S10-38 | P72A10-38 | 38 | .5277 | .555 |
| P72S10-40 | P72A10-40 | 40 | .5555 | .583 |
| P72S10-42 | P72A10-42 | 42 | .5833 | .611 |
| P72S10-44 | P72A10-44 | 44 | .6111 | .638 |
| P72S10-45 | P72A10-45 | 45 | .6250 | .652 |
| P72S10-46 | P72A10-46 | 46 | .6388 | .666 |
| P72S10-48 | P72A10-48 | 48 | .6666 | .694 |
| P72S10-50 | P72A10-50 | 50 | .6944 | .722 |
| P72S10-54 | P72A10-54 | 54 | .7500 | .777 |
| P72S10-56 | P72A10-56 | 56 | .7777 | .805 |
| P72S10-60 | P72A10-60 | 60 | .8333 | .861 |
| P72S10-64 | P72A10-64 | 64 | .8888 | .916 |
| P72S10-70 | P72A10-70 | 70 | .9722 | 1.000 |
| P72S10-72 | P72A10-72 | 72 | 1.0000 | 1.027 |
| P72S10-75 | P72A10-75 | 75 | 1.0416 | 1.069 |
| P72S10-80 | P72A10-80 | 80 | 1.1111 | 1.138 |
| P72S10-84 | P72A10-84 | 84 | 1.1666 | 1.194 |
| P72S10-85 | P72A10-85 | 85 | 1.1805 | 1.208 |
| P72S10-90 | P72A10-90 | 90 | 1.2500 | 1.277 |
| P72S10-92 | P72A10-92 | 92 | 1.2777 | 1.305 |
| P72S10-96 | P72A10-96 | 96 | 1.3333 | 1.361 |
| P72S10-100 | P72A10-100 | 100 | 1.3888 | 1.416 |
| P72S10-110 | P72A10-110 | 110 | 1.5277 | 1.555 |
| P72S10-117 | P72A10-117 | 117 | 1.6250 | 1.652 |
| P72S10-120 | P72A10-120 | 120 | 1.6666 | 1.694 |
| P72S10-130 | P72A10-130 | 130 | 1.8055 | 1.833 |
| P72S10-144 | P72A10-144 | 144 | 2.0000 | 2.027 |
| P72S10-150 | P72A10-150 | 150 | 2.0833 | 2.111 |
| P72S10-153 | P72A10-153 | 153 | 2.1250 | 2.152 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---|--------------|----------------|
| 72 | PIN HUB | 3/16" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



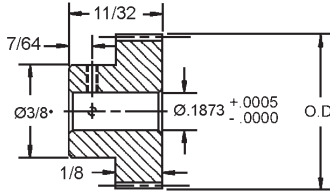
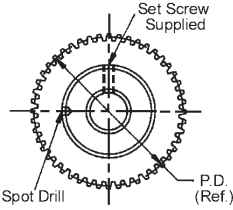
- For 27-29 teeth hub diameter equals .33
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P72S21-27 | P72A21-27 | 27• | .3750 | .402 |
| P72S21-28 | P72A21-28 | 28• | .3888 | .416 |
| P72S21-30 | P72A21-30 | 30 | .4166 | .444 |
| P72S21-32 | P72A21-32 | 32 | .4444 | .472 |
| P72S21-34 | P72A21-34 | 34 | .4722 | .500 |
| P72S21-36 | P72A21-36 | 36 | .5000 | .527 |
| P72S21-38 | P72A21-38 | 38 | .5277 | .555 |
| P72S21-40 | P72A21-40 | 40 | .5555 | .583 |
| P72S21-42 | P72A21-42 | 42 | .5833 | .611 |
| P72S21-44 | P72A21-44 | 44 | .6111 | .638 |
| P72S21-46 | P72A21-46 | 46 | .6388 | .666 |
| P72S21-48 | P72A21-48 | 48 | .6666 | .694 |
| P72S21-50 | P72A21-50 | 50 | .6944 | .722 |
| P72S21-54 | P72A21-54 | 54 | .7500 | .777 |
| P72S21-56 | P72A21-56 | 56 | .7777 | .805 |
| P72S21-60 | P72A21-60 | 60 | .8333 | .861 |
| P72S21-63 | P72A21-63 | 63 | .8750 | .902 |
| P72S21-64 | P72A21-64 | 64 | .8888 | .916 |
| P72S21-70 | P72A21-70 | 70 | .9722 | 1.000 |
| P72S21-72 | P72A21-72 | 72 | 1.0000 | 1.027 |
| P72S21-80 | P72A21-80 | 80 | 1.1111 | 1.138 |
| P72S21-90 | P72A21-90 | 90 | 1.2500 | 1.277 |
| P72S21-96 | P72A21-96 | 96 | 1.3333 | 1.361 |
| P72S21-100 | P72A21-100 | 100 | 1.3888 | 1.416 |
| P72S21-105 | P72A21-105 | 105 | 1.4583 | 1.486 |
| P72S21-108 | P72A21-108 | 108 | 1.5000 | 1.527 |
| P72S21-144 | P72A21-144 | 144 | 2.0000 | 2.027 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|------|---|--------------|----------------|
| 72 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



- For 27-29 teeth hub diameter equals .33

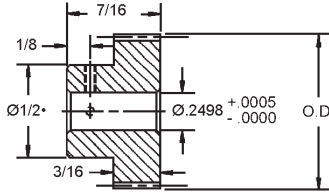
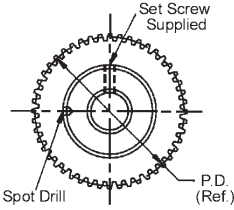
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P72S19-28 | P72A19-28 | 28• | .3888 | .416 |
| P72S19-30 | P72A19-30 | 30 | .4166 | .444 |
| P72S19-32 | P72A19-32 | 32 | .4444 | .472 |
| P72S19-36 | P72A19-36 | 36 | .5000 | .527 |
| P72S19-38 | P72A19-38 | 38 | .5277 | .555 |
| P72S19-40 | P72A19-40 | 40 | .5555 | .583 |
| P72S19-42 | P72A19-42 | 42 | .5833 | .611 |
| P72S19-44 | P72A19-44 | 44 | .6111 | .638 |
| P72S19-45 | P72A19-45 | 45 | .6250 | .652 |
| P72S19-46 | P72A19-46 | 46 | .6388 | .666 |
| P72S19-48 | P72A19-48 | 48 | .6666 | .694 |
| P72S19-50 | P72A19-50 | 50 | .6944 | .722 |
| P72S19-54 | P72A19-54 | 54 | .7500 | .777 |
| P72S19-55 | P72A19-55 | 55 | .7638 | .791 |
| P72S19-56 | P72A19-56 | 56 | .7777 | .805 |
| P72S19-60 | P72A10-60 | 60 | .8333 | .861 |
| P72S19-64 | P72A19-64 | 64 | .8888 | .916 |
| P72S19-70 | P72A19-70 | 70 | .9722 | 1.000 |
| P72S19-72 | P72A19-72 | 72 | 1.0000 | 1.027 |
| P72S19-75 | P72A19-75 | 76 | 1.0416 | 1.069 |
| P72S19-80 | P72A19-80 | 80 | 1.1111 | 1.138 |
| P72S19-81 | P72A19-81 | 81 | 1.1250 | 1.152 |
| P72S19-90 | P72A19-90 | 90 | 1.2500 | 1.277 |
| P72S19-96 | P72A19-96 | 96 | 1.3333 | 1.361 |
| P72S19-99 | P72A19-99 | 99 | 1.3750 | 1.402 |
| P72S19-100 | P72A19-100 | 100 | 1.3888 | 1.416 |
| P72S19-108 | P72A19-108 | 108 | 1.5000 | 1.527 |
| P72S19-110 | P72A19-110 | 110 | 1.5277 | 1.555 |
| P72S19-120 | P72A19-120 | 120 | 1.6666 | 1.694 |
| P72S19-126 | P72A19-126 | 126 | 1.7500 | 1.777 |
| P72S19-130 | P72A19-130 | 130 | 1.8055 | 1.833 |
| P72S19-140 | P72A19-140 | 140 | 1.9444 | 1.972 |
| P72S19-144 | P72A19-144 | 144 | 2.0000 | 2.027 |
| P72S19-150 | P72A19-150 | 150 | 2.0833 | 2.111 |
| P72S19-153 | P72A19-153 | 153 | 2.1250 | 2.152 |
| P72S19-162 | P72A19-162 | 162 | 2.2500 | 2.277 |
| P72S19-168 | P72A19-168 | 168 | 2.3333 | 2.361 |
| P72S19-170 | P72A19-170 | 170 | 2.3611 | 2.388 |
| P72S19-180 | P72A19-180 | 180 | 2.5000 | 2.527 |
| P72S19-198 | P72A19-198 | 198 | 2.7500 | 2.777 |
| P72S19-200 | P72A19-200 | 200 | 2.7777 | 2.805 |
| P72S19-216 | P72A19-216 | 216 | 3.0000 | 3.027 |
| P72S19-288 | P72A19-288 | 288 | 4.0000 | 4.027 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 72 | PIN HUB | 1/4" | 3/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



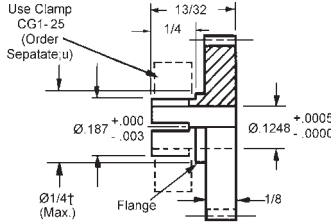
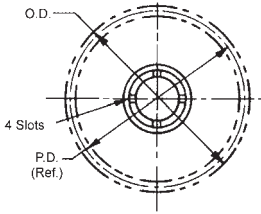
- For 35-38 teeth hub diameter equals .44
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| P72S28-38 | P72A28-38 | 38• | .5277 | .555 |
| P72S28-40 | P72A28-40 | 40 | .5555 | .583 |
| P72S28-42 | P72A28-42 | 42 | .5833 | .611 |
| P72S28-44 | P72A28-44 | 44 | .6111 | .638 |
| P72S28-45 | P72A28-45 | 45 | .6250 | .652 |
| P72S28-46 | P72A28-46 | 46 | .6388 | .666 |
| P72S28-48 | P72A28-48 | 48 | .6666 | .694 |
| P72S28-50 | P72A28-50 | 50 | .6944 | .722 |
| P72S28-54 | P72A28-54 | 54 | .7500 | .777 |
| P72S28-55 | P72A28-55 | 55 | .7638 | .791 |
| P72S28-60 | P72A28-60 | 60 | .8333 | .861 |
| P72S28-63 | P72A28-63 | 63 | .8750 | .902 |
| P72S28-64 | P72A28-64 | 64 | .8888 | .916 |
| P72S28-65 | P72A28-65 | 65 | .9027 | .930 |
| P72S28-70 | P72A28-70 | 70 | .9722 | 1.000 |
| P72S28-72 | P72A28-72 | 72 | 1.0000 | 1.027 |
| P72S28-80 | P72A28-80 | 80 | 1.1111 | 1.138 |
| P72S28-90 | P72A28-90 | 90 | 1.2500 | 1.277 |
| P72S28-96 | P72A28-96 | 96 | 1.3333 | 1.361 |
| P72S28-100 | P72A28-100 | 100 | 1.3888 | 1.416 |
| P72S28-105 | P72A28-105 | 105 | 1.4583 | 1.486 |
| P72S28-110 | P72A28-110 | 110 | 1.5277 | 1.555 |
| P72S28-120 | P72A28-120 | 120 | 1.6666 | 1.694 |
| P72S28-126 | P72A28-126 | 126 | 1.7500 | 1.777 |
| P72S28-130 | P72A28-130 | 130 | 1.8055 | 1.833 |
| P72S28-136 | P72A28-136 | 136 | 1.8888 | 1.916 |
| P72S28-140 | P72A28-140 | 140 | 1.9444 | 1.972 |
| P72S28-150 | P72A28-150 | 150 | 2.0833 | 2.111 |
| P72S28-160 | P72A28-160 | 160 | 2.2222 | 2.250 |
| P72S28-170 | P72A28-170 | 170 | 2.3611 | 2.388 |
| P72S28-180 | P72A28-180 | 180 | 2.5000 | 2.527 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|------|---|--------------|----------------|
| 72 | CLAMP STYLE | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



† Teeth may runout on flange diameter.

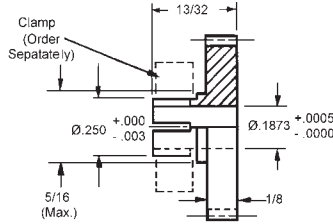
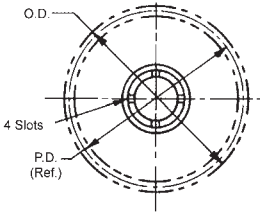
Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| C72S7-20 | C72A7-20 | 20† | .2777 | .305 |
| C72S7-22 | C72A7-22 | 22 | .3055 | .333 |
| C72S7-23 | C72A7-23 | 23 | .3194 | .347 |
| C72S7-25 | C72A7-25 | 25 | .3472 | .375 |
| C72S7-26 | C72A7-26 | 26 | .3611 | .388 |
| C72S7-27 | C72A7-27 | 27 | .3750 | .402 |
| C72S7-28 | C72A7-28 | 28 | .3888 | .416 |
| C72S7-30 | C72A7-30 | 30 | .4166 | .444 |
| C72S7-32 | C72A7-32 | 32 | .4444 | .472 |
| C72S7-34 | C72A7-34 | 34 | .4722 | .500 |
| C72S7-36 | C72A7-36 | 36 | .5000 | .527 |
| C72S7-38 | C72A7-38 | 38 | .5277 | .555 |
| C72S7-40 | C72A7-40 | 40 | .5555 | .583 |
| C72S7-42 | C72A7-42 | 42 | .5833 | .611 |
| C72S7-50 | C72A7-50 | 50 | .6944 | .722 |
| C72S7-56 | C72A7-56 | 56 | .7777 | .805 |
| C72S7-60 | C72A7-60 | 60 | .8333 | .861 |
| C72S7-64 | C72A7-64 | 64 | .8888 | .916 |
| C72S7-70 | C72A7-70 | 70 | .9722 | 1.000 |
| C72S7-72 | C72A7-72 | 72 | 1.0000 | 1.027 |
| C72S7-75 | C72A7-75 | 75 | 1.0416 | 1.069 |
| C72S7-80 | C72A7-80 | 80 | 1.1111 | 1.138 |
| C72S7-81 | C72A7-81 | 81 | 1.1250 | 1.152 |
| C72S7-85 | C72A7-85 | 85 | 1.1805 | 1.208 |
| C72S7-90 | C72A7-90 | 90 | 1.2500 | 1.277 |
| C72S7-96 | C72A7-96 | 96 | 1.3333 | 1.361 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

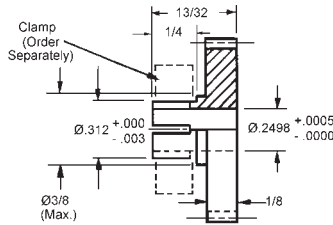
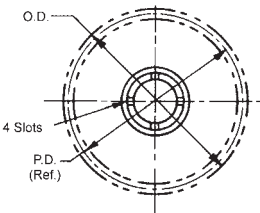
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|-------|------|---|--------------|----------------|
| 72 | CLAMP STYLE | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle. X in part number indicates part may be supplied in two piece construction with stainless steel hub (some dimensions may vary).

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| C72S14-30 | C72A14-30 | 30 | .4166 | .444 |
| C72S14-36 | C72A14-36 | 36 | .5000 | .527 |
| C72S14-72 | C72A14-72 | 72 | 1.0000 | 1.027 |
| C72S14-100 | C72A14-100 | 100 | 1.3888 | 1.416 |
| C72S14-126 | C72A14-126 | 126 | 1.7500 | 1.777 |
| C72S14-160 | C72A14-160 | 160 | 2.2222 | 2.250 |
| C72S15X-180 | C72A15X-180 | 180 | 2.5000 | 2.527 |
| C72S15X-216 | C72A15X-216 | 216 | 3.0000 | 3.027 |
| C72S15X-288 | C72A15X-288 | 288 | 4.0000 | 4.027 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|------|------|---|--------------|----------------|
| 72 | CLAMP STYLE | 1/4" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |

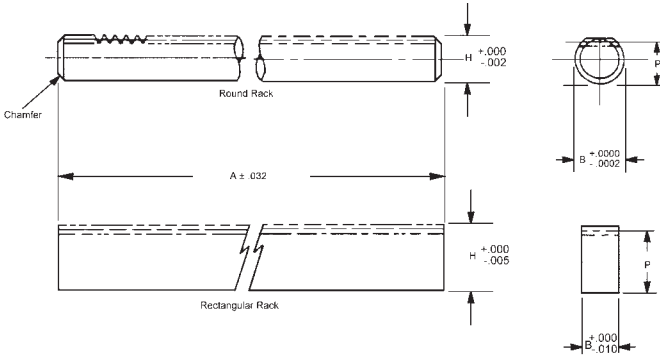


Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| C72S18-45 | C72A18-45 | 45 | .6250 | .652 |
| C72S18-63 | C72A18-63 | 63 | .8750 | .902 |
| C72S18-72 | C72A18-72 | 72 | 1.0000 | 1.027 |
| C72S18-90 | C72A18-90 | 90 | 1.2500 | 1.277 |
| C72S18-99 | C72A18-99 | 99 | 1.3750 | 1.402 |
| C72S18-108 | C72A18-108 | 108 | 1.5000 | 1.527 |
| C72S18-126 | C72A18-126 | 126 | 1.7500 | 1.777 |
| C72S18-144 | C72A18-144 | 144 | 2.0000 | 2.027 |
| C72S18-180 | C72A18-180 | 180 | 2.5000 | 2.527 |
| C72S18-216 | C72A18-216 | 216 | 3.0000 | 3.027 |
| C72S18-288 | C72A18-288 | 288 | 4.0000 | 4.027 |

GEAR RACKS

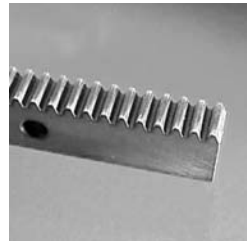
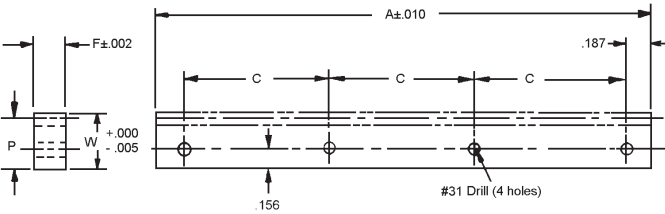
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 72 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-19 | ROUND | 72 | .1421 | .1872 | 11 | .156 | 10 |
| R2-15 | RECTANGULAR | 72 | .3411 | .167±.005 | 11 | .355 | 10 |

Available on request: 14 - 1/2° pressure angle, special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 72 | RECTANGULAR | 416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

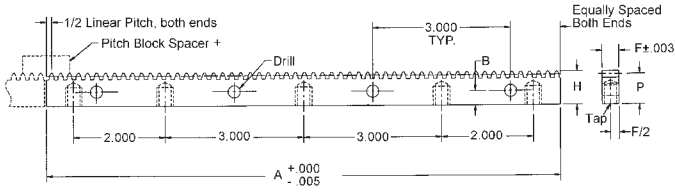


| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|---------------|----------|----------|------|------|-------|
| R4-17 | STAINLESS ST. | 5" | .3411 | .355 | .167 | 1.541 |
| R4-18 | ALUMINUM | | | | | |

Available on request: special, modified and custom racks.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 72 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



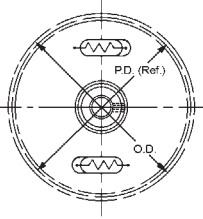
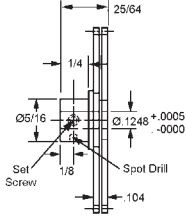
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | | SPACER BLOCK | | | | | | | | | | | |
|-----------|-----------|---------------|------------------|----------------------|-------|--------------|--------|--------|-----------------|------|------|-------|--------------|
| STOCK NO. | STOCK NO. | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 / -.005 | F | B | DRILL | TAP |
| R1-9-G1 | R1-9-SB | 10* | .0014 | .0005 | 72 | .0436 | 11.033 | .3361 | .350 | .167 | .156 | #31 | #4-40 X 3/16 |
| R3-6-G1 | R3-6-SB | 10* | .0014 | .0005 | 72 | .0436 | 11.033 | .3411 | .355 | .167 | .156 | #31 | #4-40 X 3/16 |

* Higher quality on request.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 72 | PIN HUB | 1/8" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. + .031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP72SS-58 | AP72TS-58 | 58 | .8055 |
| AP72SS-60 | AP72TS-60 | 60 | .8333 |
| AP72SS-64 | AP72TS-64 | 64 | .8888 |
| AP72SS-68 | AP72TS-68 | 68 | .9444 |
| AP72SS-70 | AP72TS-70 | 70 | .9722 |
| AP72SS-72 | AP72TS-72 | 72 | 1.0000 |
| AP72SS-75 | AP72TS-75 | 75 | 1.0416 |
| AP72SS-80 | AP72TS-80 | 80 | 1.1111 |
| AP72SS-84 | AP72TS-84 | 84 | 1.1666 |
| AP72SS-90 | AP72TS-90 | 90 | 1.2500 |
| AP72SS-96 | AP72TS-96 | 96 | 1.3333 |
| AP72S-100 | AP72T-100 | 100 | 1.3888 |
| AP72S-105 | AP72T-105 | 105 | 1.4583 |
| AP72S-108 | AP72T-108 | 108 | 1.5000 |
| AP72S-110 | AP72T-110 | 110 | 1.5277 |
| AP72S-115 | AP72T-115 | 115 | 1.5972 |
| AP72S-120 | AP72T-120 | 120 | 1.6666 |
| AP72S-125 | AP72T-125 | 125 | 1.7361 |
| AP72S-130 | AP72T-130 | 130 | 1.8055 |
| AP72S-140 | AP72T-140 | 140 | 1.9444 |
| AP72S-144 | AP72T-144 | 144 | 2.0000 |
| AP72S-150 | AP72T-150 | 150 | 2.0833 |
| AP72S-160 | AP72T-160 | 160 | 2.2222 |
| AP72S-170 | AP72T-170 | 170 | 2.3611 |
| AP72S-180 | AP72T-180 | 180 | 2.5000 |
| AP72S-190 | AP72T-190 | 190 | 2.6388 |
| AP72S-200 | AP72T-200 | 200 | 2.7777 |
| AP72S-210 | AP72T-210 | 210 | 2.9166 |
| AP72S-216 | AP72T-216 | 216 | 3.0000 |
| AP72S-220 | AP72T-220 | 220 | 3.0555 |
| AP72S-225 | AP72T-225 | 225 | 3.1250 |

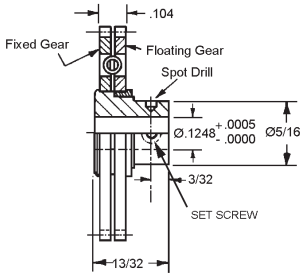
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 72 | PIN HUB | 1/8" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER | OUTSIDE DIA. |
|---------------------------|-------------------------------------|--------------|----------------|--------------|
| AP72AS-45 | - | 45 | .6250 | .652 |
| AP72AS-56 | AP72NS-56 | 56 | .7777 | .805 |
| AP72AS-60 | AP72NS-60 | 60 | .8333 | .861 |
| AP72AS-63 | AP72NS-63 | 63 | .8750 | .902 |
| AP72AS-65 | AP72NS-65 | 65 | .9027 | .930 |
| AP72AS-70 | AP72NS-70 | 70 | .9722 | 1.000 |

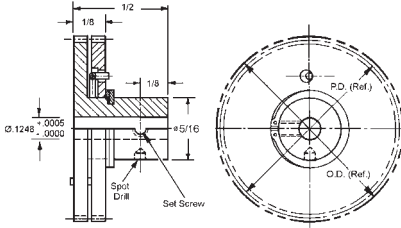
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH PINIONS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 72 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material:
303 Stainless Steel

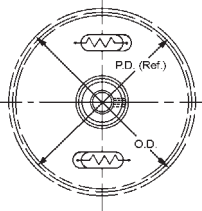
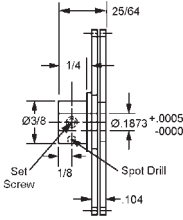
| STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|---|-----------------|-------|---------------|-----------------|
| AP72FS-44 | AP72GS-44 | 44 | | .6111 | .639 |
| AP72FS-56 | AP72GS-56 | 56 | .1248 | .7777 | .805 |
| AP72FS-72 | AP72GS-72 | 72 | | 1.0000 | 1.028 |

Available on request:
Other numbers of teeth;
AGMA Quality 12 and 14
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|-------|--|--------------|-------------|
| 72 | PIN HUB | 3/16" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

O.D. = P.D. + .031

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP72US-68 | AP72VS-68 | 68 | .9444 |
| AP72US-70 | AP72VS-70 | 70 | .9722 |
| AP72US-72 | AP72VS-72 | 72 | 1.0000 |
| AP72US-75 | AP72VS-75 | 75 | 1.0416 |
| AP72US-80 | AP72VS-80 | 80 | 1.1111 |
| AP72US-84 | AP72VS-84 | 84 | 1.1666 |
| AP72US-90 | AP72VS-90 | 90 | 1.2500 |
| AP72US-96 | AP72VS-96 | 96 | 1.3333 |
| AP72U-100 | AP72V-100 | 100 | 1.3888 |
| AP72U-105 | AP72V-105 | 105 | 1.4583 |
| AP72U-108 | AP72V-108 | 108 | 1.5000 |
| AP72U-110 | AP72V-110 | 110 | 1.5277 |
| AP72U-115 | AP72V-115 | 115 | 1.5972 |
| AP72U-120 | AP72V-120 | 120 | 1.6666 |
| AP72U-125 | AP72V-125 | 125 | 1.7361 |
| AP72U-130 | AP72V-130 | 130 | 1.8055 |
| AP72U-140 | AP72V-140 | 140 | 1.9444 |
| AP72U-144 | AP72V-144 | 144 | 2.0000 |
| AP72U-150 | AP72V-150 | 150 | 2.0833 |
| AP72U-160 | AP72V-160 | 160 | 2.2222 |
| AP72U-170 | AP72V-170 | 170 | 2.3611 |
| AP72U-180 | AP72V-180 | 180 | 2.5000 |
| AP72U-190 | AP72V-190 | 190 | 2.6388 |
| AP72U-200 | AP72V-200 | 200 | 2.7777 |
| AP72U-210 | AP72V-210 | 210 | 2.9166 |
| AP72U-216 | AP72V-216 | 216 | 3.0000 |
| AP72U-220 | AP72V-220 | 220 | 3.0555 |
| AP72U-225 | AP72V-225 | 225 | 3.1250 |

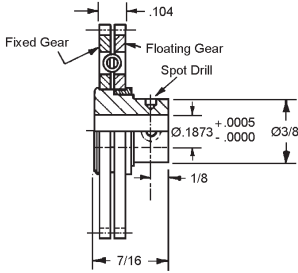
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|-------|--|--------------|-------------|
| 72 | PIN HUB | 3/16" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



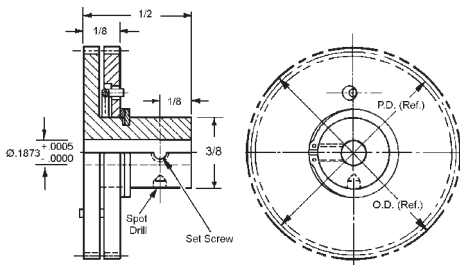
Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|----------------|--------------|
| AP72CS-50 | - | 50 | .6944 | .722 |
| AP72CS-52 | AP72PS-52 | 52 | .7222 | .750 |
| AP72CS-54 | AP72PS-54 | 54 | .7500 | .777 |
| AP72CS-60 | AP72PS-60 | 60 | .8333 | .861 |
| AP72CS-63 | AP72PS-63 | 63 | .8750 | .902 |
| AP72CS-65 | AP72PS-65 | 65 | .9027 | .930 |
| AP72CS-70 | AP72PS-70 | 70 | .9722 | 1.000 |

Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14 (some dimensions may vary);
14-12° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|------|--|--------------|-------------|
| 72 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



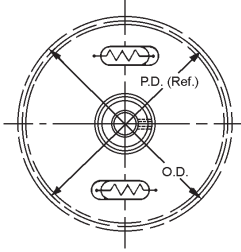
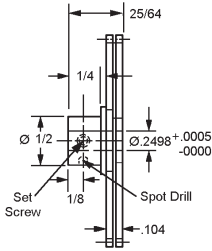
Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|----------------|--------------|
| AP72HS-44 | AP72JS-44 | 44 | .6111 | .639 |
| AP72HS-56 | AP72JS-56 | 56 | .7777 | .805 |
| AP72HS-72 | AP72JS-72 | 72 | 1.0000 | 1.028 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 72 | PIN HUB | 1/4" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AP72WS-72 | AP72XS-72 | 72 | 1.0000 |
| AP72WS-75 | AP72XS-75 | 75 | 1.0416 |
| AP72WS-80 | AP72XS-80 | 80 | 1.1111 |
| AP72WS-84 | AP72XS-84 | 84 | 1.1666 |
| AP72WS-90 | AP72XS-90 | 90 | 1.2500 |
| AP72WS-96 | AP72XS-96 | 96 | 1.3333 |
| AP72W-100 | AP72X-100 | 100 | 1.3888 |
| AP72W-105 | AP72X-105 | 105 | 1.4583 |
| AP72W-108 | AP72X-108 | 108 | 1.5000 |
| AP72W-110 | AP72X-110 | 110 | 1.5277 |
| AP72W-115 | AP72X-115 | 115 | 1.5972 |
| AP72W-120 | AP72X-120 | 120 | 1.6666 |
| AP72W-125 | AP72X-125 | 125 | 1.7361 |
| AP72W-130 | AP72X-130 | 130 | 1.8055 |
| AP72W-140 | AP72X-140 | 140 | 1.9444 |
| AP72W-144 | AP72X-144 | 144 | 2.0000 |
| AP72W-150 | AP72X-150 | 150 | 2.0833 |
| AP72W-160 | AP72X-160 | 160 | 2.2222 |
| AP72W-170 | AP72X-170 | 170 | 2.3611 |
| AP72W-180 | AP72X-180 | 180 | 2.5000 |
| AP72W-190 | AP72X-190 | 190 | 2.6388 |
| AP72W-200 | AP72X-200 | 200 | 2.7777 |
| AP72W-210 | AP72X-210 | 210 | 2.9166 |
| AP72W-216 | AP72X-216 | 216 | 3.0000 |
| AP72W-220 | AP72X-220 | 220 | 3.0555 |
| AP72W-225 | AP72X-225 | 225 | 3.1250 |

O.D. = P.D. +.031

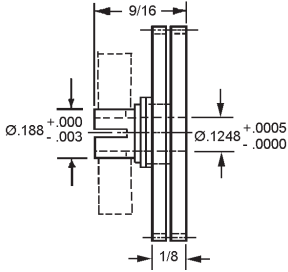
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14 (some dimensions may vary);
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH PINIONS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 72 | CLAMP STYLE | 1/8" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material:
303 Stainless Steel

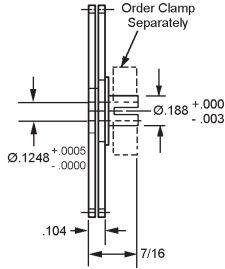
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-----------------|---------------|-----------------|
| AC72FS-44 | AC72GS-44 | 44 | .6111 | .639 |
| AC72FS-56 | AC72GS-56 | 56 | .7777 | .805 |
| AC72FS-72 | AC72GS-72 | 72 | 1.0000 | 1.028 |

Available on request:
Other numbers of teeth;
AGMA Quality 12 and 14
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|-------|--|--------------|-------------|
| 72 | CLAMP STYLE | 1/8" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC72SS-58 | AC72TS-58 | 58 | .8055 |
| AC72SS-60 | AC72TS-60 | 60 | .8333 |
| AC72SS-64 | AC72TS-64 | 64 | .8888 |
| AC72SS-68 | AC72TS-68 | 68 | .9444 |
| AC72SS-70 | AC72TS-70 | 70 | .9722 |
| AC72SS-72 | AC72TS-72 | 72 | 1.0000 |
| AC72SS-75 | AC72TS-75 | 75 | 1.0416 |
| AC72SS-80 | AC72TS-80 | 80 | 1.1111 |
| AC72SS-84 | AC72TS-84 | 84 | 1.1666 |
| AC72SS-90 | AC72TS-90 | 90 | 1.2500 |
| AC72SS-96 | AC72TS-96 | 96 | 1.3333 |
| AC72S-100 | AC72T-100 | 100 | 1.3888 |
| AC72S-105 | AC72T-105 | 105 | 1.4583 |
| AC72S-108 | AC72T-108 | 108 | 1.5000 |
| AC72S-110 | AC72T-110 | 110 | 1.5277 |
| AC72S-115 | AC72T-115 | 115 | 1.5972 |
| AC72S-120 | AC72T-120 | 120 | 1.6666 |
| AC72S-125 | AC72T-125 | 125 | 1.7361 |
| AC72S-130 | AC72T-130 | 130 | 1.8055 |
| AC72S-140 | AC72T-140 | 140 | 1.9444 |
| AC72S-144 | AC72T-144 | 144 | 2.0000 |
| AC72S-150 | AC72T-150 | 150 | 2.0833 |
| AC72S-160 | AC72T-160 | 160 | 2.2222 |
| AC72S-170 | AC72T-170 | 170 | 2.3611 |
| AC72S-180 | AC72T-180 | 180 | 2.5000 |
| AC72S-190 | AC72T-190 | 190 | 2.6388 |
| AC72S-200 | AC72T-200 | 200 | 2.7777 |
| AC72S-210 | AC72T-210 | 210 | 2.9166 |
| AC72S-216 | AC72T-216 | 216 | 3.0000 |
| AC72S-220 | AC72T-220 | 220 | 3.0555 |
| AC72S-225 | AC72T-225 | 225 | 3.1250 |

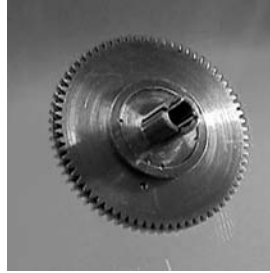
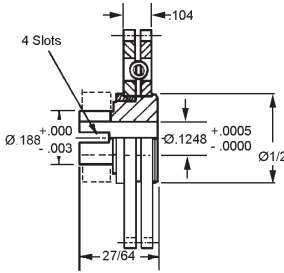
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------|------|-------|--|--------------|-------------|
| 72 | CLAMP STYLE | 1/8" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|-----------------|--------------|
| AC72AS-56 | AC72NS-56 | 56 | .7777 | .805 |
| AC72AS-60 | AC72NS-60 | 60 | .8333 | .861 |
| AC72AS-63 | AC72NS-63 | 63 | .8750 | .902 |
| AC72AS-65 | AC72NS-65 | 65 | .9027 | .930 |
| AC72AS-70 | AC72NS-70 | 70 | .9722 | 1.000 |

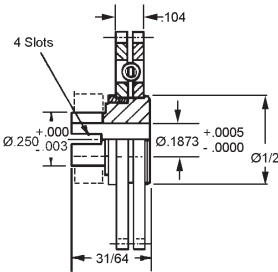
Available on request:

Other numbers of teeth;

AGMA Quality 12 and 14 (some dimensions may vary);

14-12° pressure angle.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------|-------|-------|--|--------------|-------------|
| 72 | CLAMP STYLE | 3/16" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Available on request:

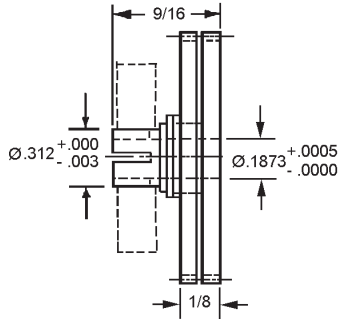
Other numbers of teeth;
AGMA Quality 12 and 14
(some dimensions may vary);
14-12° pressure angle.

Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|-----------------|--------------|
| AC72CS-50 | - | 50 | .6944 | .722 |
| AC72CS-52 | AC72PS-52 | 52 | .7222 | .750 |
| AC72CS-54 | AC72PS-54 | 54 | .7500 | .777 |
| AC72CS-60 | AC72PS-60 | 60 | .8333 | .861 |
| AC72CS-63 | AC72PS-63 | 63 | .8750 | .902 |
| AC72CS-65 | AC72PS-65 | 65 | .9027 | .930 |
| AC72CS-70 | AC72PS-70 | 70 | .9722 | 1.000 |

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 72 | CLAMP STYLE | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

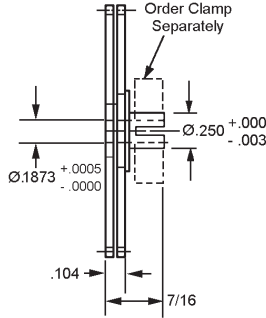
| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER. | OUTSIDE DIA. |
|---|---|-----------------|--------------------|-----------------|
| AC72HS-44 | AC72JS-44 | 44 | .6111 | .639 |
| AC72HS-56 | AC72JS-56 | 56 | .7777 | .805 |
| AC72HS-72 | AC72JS-72 | 72 | 1.0000 | 1.028 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 72 | CLAMP STYLE | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC72US-68 | AC72VS-68 | 68 | .9444 |
| AC72US-70 | AC72VS-70 | 70 | .9722 |
| AC72US-72 | AC72VS-72 | 72 | 1.0000 |
| AC72US-75 | AC72VS-75 | 75 | 1.0416 |
| AC72US-80 | AC72VS-80 | 80 | 1.1111 |
| AC72US-84 | AC72VS-84 | 84 | 1.1666 |
| AC72US-90 | AC72VS-90 | 90 | 1.2500 |
| AC72US-96 | AC72VS-96 | 96 | 1.3333 |
| AC72U-100 | AC72V-100 | 100 | 1.3888 |
| AC72U-105 | AC72V-105 | 105 | 1.4583 |
| AC72U-108 | AC72V-108 | 108 | 1.5000 |
| AC72U-110 | AC72V-110 | 110 | 1.5277 |
| AC72U-115 | AC72V-115 | 115 | 1.5972 |
| AC72U-120 | AC72V-120 | 120 | 1.6666 |
| AC72U-125 | AC72V-125 | 125 | 1.7361 |
| AC72U-130 | AC72V-130 | 130 | 1.8055 |
| AC72U-140 | AC72V-140 | 140 | 1.9444 |
| AC72U-144 | AC72V-144 | 144 | 2.0000 |
| AC72U-150 | AC72V-150 | 150 | 2.0833 |
| AC72U-160 | AC72V-160 | 160 | 2.2222 |
| AC72U-170 | AC72V-170 | 170 | 2.3611 |
| AC72U-180 | AC72V-180 | 180 | 2.5000 |
| AC72U-190 | AC72V-190 | 190 | 2.6388 |
| AC72U-200 | AC72V-200 | 200 | 2.7777 |
| AC72U-210 | AC72V-210 | 210 | 2.9166 |
| AC72U-216 | AC72V-216 | 216 | 3.0000 |
| AC72U-220 | AC72V-220 | 220 | 3.0555 |
| AC72U-225 | AC72V-225 | 225 | 3.1250 |

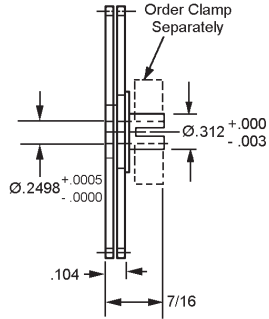
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 72 | CLAMP STYLE | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC72WS-72 | AC72XS-72 | 72 | 1.0000 |
| AC72WS-75 | AC72XS-75 | 75 | 1.0416 |
| AC72WS-80 | AC72XS-80 | 80 | 1.1111 |
| AC72WS-84 | AC72XS-84 | 84 | 1.1666 |
| AC72WS-90 | AC72XS-90 | 90 | 1.2500 |
| AC72WS-96 | AC72XS-96 | 96 | 1.3333 |
| AC72W-100 | AC72X-100 | 100 | 1.3888 |
| AC72W-105 | AC72X-105 | 105 | 1.4583 |
| AC72W-108 | AC72X-108 | 108 | 1.5000 |
| AC72W-110 | AC72X-110 | 110 | 1.5277 |
| AC72W-115 | AC72X-115 | 115 | 1.5972 |
| AC72W-120 | AC72X-120 | 120 | 1.6666 |
| AC72W-125 | AC72X-125 | 125 | 1.7361 |
| AC72W-130 | AC72X-130 | 130 | 1.8055 |
| AC72W-140 | AC72X-140 | 140 | 1.9444 |
| AC72W-144 | AC72X-144 | 144 | 2.0000 |
| AC72W-150 | AC72X-150 | 150 | 2.0833 |
| AC72W-160 | AC72X-160 | 160 | 2.2222 |
| AC72W-170 | AC72X-170 | 170 | 2.3611 |
| AC72W-180 | AC72X-180 | 180 | 2.5000 |
| AC72W-190 | AC72X-190 | 190 | 2.6388 |
| AC72W-200 | AC72X-200 | 200 | 2.7777 |
| AC72W-210 | AC72X-210 | 210 | 2.9166 |
| AC72W-216 | AC72X-216 | 216 | 3.0000 |
| AC72W-220 | AC72X-220 | 220 | 3.0555 |
| AC72W-225 | AC72X-225 | 225 | 3.1250 |

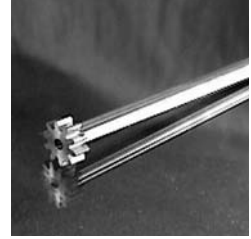
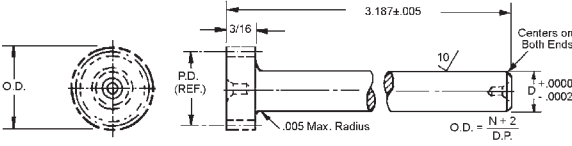
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

PINION SHAFTS

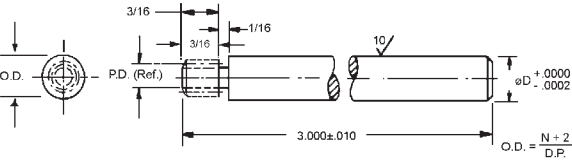
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 72 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS72S3-18H | 72 | 18 | .2500 | .1872 |
| PS72S2-24H | 72 | 24 | .3333 | .1247 |
| PS72S3-24H | 72 | 24 | .3333 | .1872 |

Other numbers of teeth available on request.

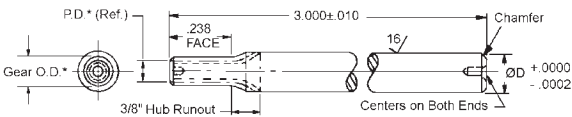
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 72 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|-----------|-------|--------------|------------|-------|
| PS72S3-10 | 72 | 10 | .1388 | .1872 |
| PS72S4-14 | 72 | 14 | .1944 | .2497 |

Other numbers of teeth available on request.

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 72 | 303 STAINLESS STEEL | 10 | 20° |

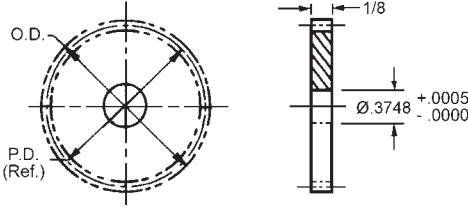


| STOCK NO. | PITCH | NO. OF TEETH | D | ENLARGED | |
|-------------|-------|--------------|-------|----------------|--------------|
| | | | | PITCH DIAMETER | OUTSIDE DIA. |
| B-PS72S3-10 | | 10 | .1872 | .1504 | .178 |
| B-PS72S4-12 | 72 | 12 | .2497 | .1750 | .202 |
| B-PS72S4-15 | | 15 | | .2117 | .239 |

Other numbers of teeth available on request.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 80 | HUBLESS | 3/8" | 1/8" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



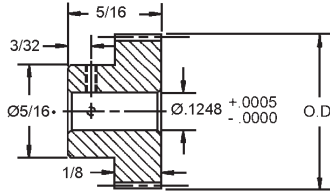
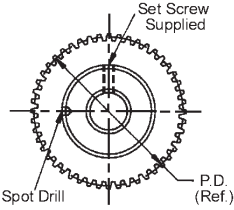
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| F80S3-80 | F80A3-80 | 80 | 1.0000 | 1.025 |
| F80S3-90 | F80A3-90 | 90 | 1.1250 | 1.150 |
| F80S3-100 | F80A3-100 | 100 | 1.2500 | 1.275 |
| F80S3-110 | F80A3-110 | 110 | 1.3750 | 1.400 |
| F80S3-120 | F80A3-120 | 120 | 1.5000 | 1.525 |
| F80S3-140 | F80A3-140 | 140 | 1.7500 | 1.775 |
| F80S3-150 | F80A3-150 | 150 | 1.8750 | 1.900 |
| F80S3-160 | F80A3-160 | 160 | 2.0000 | 2.025 |
| F80S3-180 | F80A3-180 | 180 | 2.2500 | 2.275 |
| F80S3-200 | F80A3-200 | 200 | 2.5000 | 2.525 |
| F80S3-240 | F80A3-240 | 240 | 3.0000 | 3.025 |
| F80S3-280 | F80A3-280 | 280 | 3.5000 | 3.525 |
| F80S3-320 | F80A3-320 | 320 | 4.0000 | 4.025 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 80 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



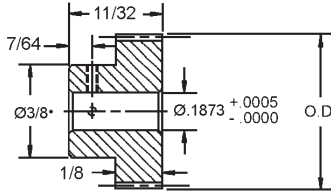
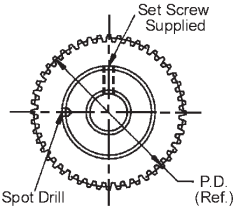
- For 22-27 teeth hub diameter equals .24
Available on request, other numbers of
teeth and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| P80S10-24 | P80A10-24 | 24* | .3000 | .325 |
| P80S10-26 | P80A10-26 | 26* | .3250 | .350 |
| P80S10-27 | P80A10-27 | 27* | .3375 | .362 |
| P80S10-28 | P80A10-28 | 28 | .3500 | .375 |
| P80S10-30 | P80A10-30 | 30 | .3750 | .400 |
| P80S10-32 | P80A10-32 | 32 | .4000 | .425 |
| P80S10-36 | P80A10-36 | 36 | .4500 | .475 |
| P80S10-40 | P80A10-40 | 40 | .5000 | .525 |
| P80S10-42 | P80A10-42 | 42 | .5250 | .550 |
| P80S10-44 | P80A10-44 | 44 | .5500 | .575 |
| P80S10-50 | P80A10-50 | 50 | .6250 | .650 |
| P80S10-60 | P80A10-60 | 60 | .7500 | .775 |
| P80S10-80 | P80A10-80 | 80 | 1.0000 | 1.025 |
| P80S10-90 | P80A10-90 | 90 | 1.1250 | 1.150 |
| P80S10-100 | P80A10-100 | 100 | 1.2500 | 1.275 |
| P80S10-110 | P80A10-110 | 110 | 1.3750 | 1.400 |
| P80S10-120 | P80A10-120 | 120 | 1.5000 | 1.525 |
| P80S10-130 | P80A10-130 | 130 | 1.6250 | 1.650 |
| P80S10-140 | P80A10-140 | 140 | 1.7500 | 1.775 |
| P80S10-150 | P80A10-150 | 150 | 1.8750 | 1.900 |
| P80S10-160 | P80A10-160 | 160 | 2.0000 | 2.025 |
| P80S10-170 | P80A10-170 | 170 | 2.1250 | 2.150 |
| P80S10-180 | P80A10-180 | 180 | 2.2500 | 2.275 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|------|---|--------------|----------------|
| 80 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



- For 30 teeth hub diameter equals .34

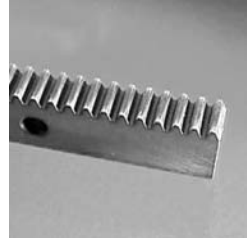
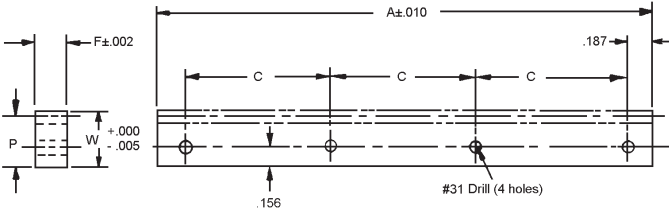
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| P80S19-30 | P80A19-30 | 30• | .3750 | .400 |
| P80S19-40 | P80A19-40 | 40 | .5000 | .525 |
| P80S19-44 | P80A19-44 | 44 | .5500 | .575 |
| P80S19-50 | P80A19-50 | 50 | .6250 | .650 |
| P80S19-60 | P80A19-60 | 60 | .7500 | .775 |
| P80S19-65 | P80A19-65 | 65 | .8125 | .837 |
| P80S19-70 | P80A19-70 | 70 | .8750 | .900 |
| P80S19-80 | P80A19-80 | 80 | 1.0000 | 1.025 |
| P80S19-85 | P80A19-85 | 85 | 1.0625 | 1.087 |
| P80S19-90 | P80A19-90 | 90 | 1.1250 | 1.150 |
| P80S19-100 | P80A19-100 | 100 | 1.2500 | 1.275 |
| P80S19-110 | P80A19-110 | 110 | 1.3750 | 1.400 |
| P80S19-120 | P80A19-120 | 120 | 1.5000 | 1.525 |
| P80S19-130 | P80A19-130 | 130 | 1.6250 | 1.650 |
| P80S19-140 | P80A19-140 | 140 | 1.7500 | 1.775 |
| P80S19-150 | P80A19-150 | 150 | 1.8750 | 1.900 |
| P80S19-160 | P80A19-160 | 160 | 2.0000 | 2.025 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

GEAR RACKS

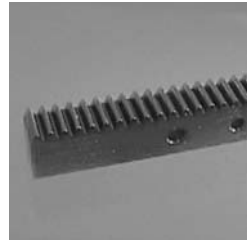
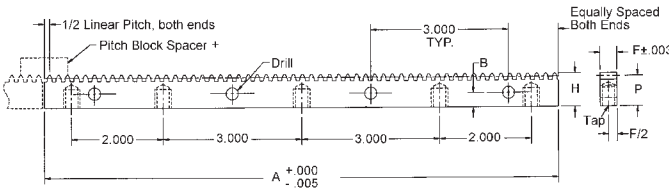
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 80 | RECTANGULAR | 416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|---------------|----------|----------|------|------|-------|
| R4-19 | STAINLESS ST. | 5" | .3425 | .355 | .167 | 1.541 |
| R4-20 | ALUMINUM | | | | | |

Available on request: special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 80 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



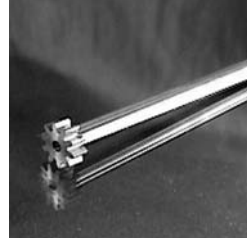
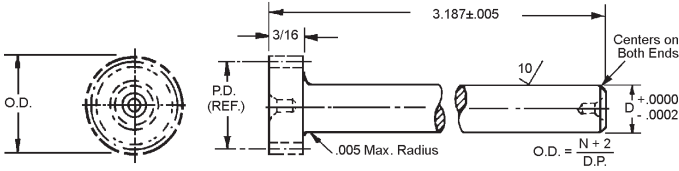
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS | SPACER BLOCK | | | | | | | | | | | | |
|----------|--------------|---------------|------------------|----------------------|-------|--------------|--------|--------|----------------|------|------|-------|--------------|
| | | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 - .005 | F | B | DRILL | TAP |
| R1-10-G1 | R1-10-SB | 10* | .0014 | .0005 | 80 | .0393 | 11.028 | .3375 | .350 | .167 | .156 | #31 | #4-40 X 3/16 |

* Higher quality on request.

PINION SHAFTS

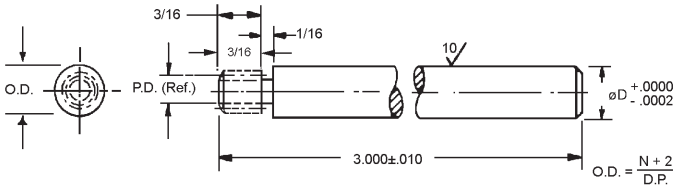
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 80 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS80S3-20H | 80 | 20 | .2500 | .1872 |

Other numbers of teeth available on request.

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 80 | 303 STAINLESS STEEL | 10 | 20° |

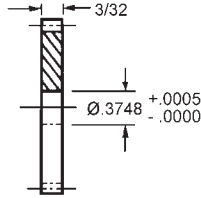
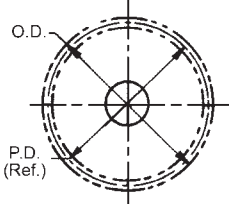


| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|-----------|-------|--------------|------------|-------|
| PS80S4-10 | 80 | 10 | .1250 | .2497 |
| PS80S4-12 | 80 | 12 | .1500 | .2497 |

Other numbers of teeth available on request.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 96 | HUBLESS | 3/8" | 3/32" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle
1/16" Face

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| F96S2-96 | F96A2-96 | 96 | 1.0000 | 1.020 |
| F96S2-100 | F96A2-100 | 100 | 1.0416 | 1.062 |
| F96S2-105 | F96A2-105 | 105 | 1.0937 | 1.114 |
| F96S2-108 | F96A2-108 | 108 | 1.1250 | 1.145 |
| F96S2-110 | F96A2-110 | 110 | 1.1458 | 1.166 |
| F96S2-120 | F96A2-120 | 120 | 1.2500 | 1.270 |
| F96S2-125 | F96A2-125 | 125 | 1.3020 | 1.322 |
| F96S2-132 | F96A2-132 | 132 | 1.3750 | 1.395 |
| F96S2-140 | F96A2-140 | 140 | 1.4583 | 1.479 |
| F96S2-144 | F96A2-144 | 144 | 1.5000 | 1.520 |
| F96S2-150 | F96A2-150 | 150 | 1.5625 | 1.583 |
| F96S2-160 | F96A2-160 | 160 | 1.6666 | 1.687 |
| F96S2-180 | F96A2-180 | 180 | 1.8750 | 1.895 |
| F96S2-190 | F96A2-190 | 190 | 1.9791 | 2.000 |
| F96S2-192 | F96A2-192 | 192 | 2.0000 | 2.020 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 96 | X | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

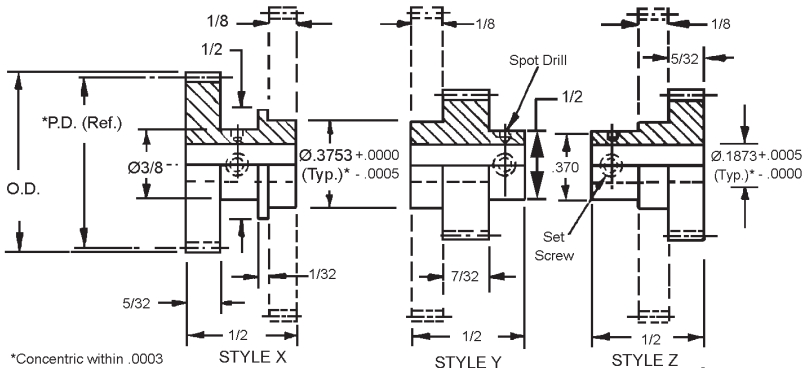
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-----------|-------|--------------|------------|--------------|
| DP96S8-40 | 96 | 40 | .4166 | .428 |
| DP96S8-42 | | 42 | .4375 | .458 |
| DP96S8-44 | | 44 | .4583 | .479 |
| DP96S8-45 | | 45 | .4687 | .490 |
| DP96S8-46 | | 46 | .4791 | .500 |
| DP96S8-48 | | 48 | .5000 | .521 |
| DP96S8-50 | | 50 | .5208 | .542 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 96 | Y | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP96S10-40 | 96 | 40 | .4166 | .428 |
| DP96S10-42 | | 42 | .4375 | .458 |
| DP96S10-44 | | 44 | .4583 | .479 |
| DP96S10-45 | | 45 | .4687 | .490 |
| DP96S10-46 | | 46 | .4791 | .500 |
| DP96S10-48 | | 48 | .5000 | .521 |
| DP96S10-50 | | 50 | .5208 | .542 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 96 | Z | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

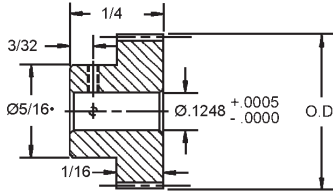
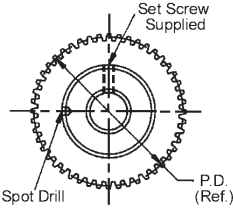
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP96S12-40 | 96 | 40 | .4166 | .428 |
| DP96S12-42 | | 42 | .4375 | .458 |
| DP96S12-44 | | 44 | .4583 | .479 |
| DP96S12-45 | | 45 | .4687 | .490 |
| DP96S12-46 | | 46 | .4791 | .500 |
| DP96S12-48 | | 48 | .5000 | .521 |
| DP96S12-50 | | 50 | .5208 | .542 |



- Hub runout cuts thru shoulder.
- Available on request: Other numbers of teeth; AGMA quality 12 and 14; 14-1/2° Pressure Angle.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 96 | PIN HUB | 1/8" | 1/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



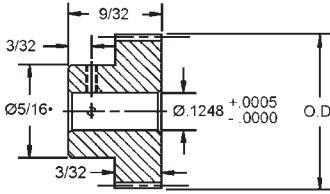
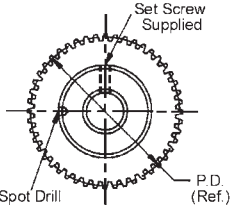
- For 26-30 teeth hub diameter equals .24
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P96S5-30 | P96A5-30 | 30• | .3125 | .333 |
| P96S5-34 | P96A5-34 | 34 | .3541 | .375 |
| P96S5-35 | P96A5-35 | 35 | .3645 | .385 |
| P96S5-36 | P96A5-36 | 36 | .3750 | .395 |
| P96S5-38 | P96A5-38 | 38 | .3958 | .416 |
| P96S5-40 | P96A5-40 | 40 | .4166 | .437 |
| P96S5-45 | P96A5-45 | 45 | .4687 | .489 |
| P96S5-50 | P96A5-50 | 50 | .5208 | .541 |
| P96S5-52 | P96A5-52 | 52 | .5416 | .562 |
| P96S5-54 | P96A5-54 | 54 | .5625 | .583 |
| P96S5-55 | P96A5-55 | 55 | .5729 | .593 |
| P96S5-56 | P96A5-56 | 56 | .5833 | .604 |
| P96S5-57 | P96A5-57 | 57 | .5937 | .614 |
| P96S5-58 | P96A5-58 | 58 | .6041 | .625 |
| P96S5-60 | P96A5-60 | 60 | .6250 | .645 |
| P96S5-61 | P96A5-61 | 61 | .6354 | .656 |
| P96S5-64 | P96A5-64 | 64 | .6666 | .687 |
| P96S5-65 | P96A5-65 | 65 | .6770 | .697 |
| P96S5-66 | P96A5-66 | 66 | .6875 | .708 |
| P96S5-67 | P96A5-67 | 67 | .6979 | .718 |
| P96S5-70 | P96A5-70 | 70 | .7291 | .750 |
| P96S5-72 | P96A5-72 | 72 | .7500 | .770 |
| P96S5-75 | P96A5-75 | 75 | .7812 | .802 |
| P96S5-76 | P96A5-76 | 76 | .7916 | .812 |
| P96S5-78 | P96A5-78 | 78 | .8125 | .833 |
| P96S5-80 | P96A5-80 | 80 | .8333 | .854 |
| P96S5-82 | P96A5-82 | 82 | .8541 | .875 |
| P96S5-85 | P96A5-85 | 85 | .8854 | .906 |
| P96S5-86 | P96A5-86 | 86 | .8958 | .916 |
| P96S5-88 | P96A5-88 | 88 | .9166 | .937 |
| P96S5-90 | P96A5-90 | 90 | .9375 | .958 |
| P96S5-95 | P96A5-95 | 95 | .9895 | 1.010 |
| P96S5-96 | P96A5-96 | 96 | 1.0000 | 1.020 |
| P96S5-100 | P96A5-100 | 100 | 1.0416 | 1.062 |
| P96S5-102 | P96A5-102 | 102 | 1.0625 | 1.083 |
| P96S5-105 | P96A5-105 | 105 | 1.0937 | 1.114 |
| P96S5-108 | P96A5-108 | 108 | 1.1250 | 1.145 |
| P96S5-110 | P96A5-110 | 110 | 1.1458 | 1.166 |
| P96S5-111 | P96A5-111 | 111 | 1.1562 | 1.177 |
| P96S5-120 | P96A5-120 | 120 | 1.2500 | 1.270 |
| P96S5-140 | P96A5-140 | 140 | 1.4583 | 1.479 |
| P96S5-160 | P96A5-160 | 160 | 1.6666 | 1.687 |
| P96S5-180 | P96A5-180 | 180 | 1.8750 | 1.895 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 96 | PIN HUB | 1/8" | 3/32" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



- For 26-30 teeth hub diameter equals .24

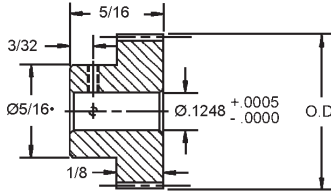
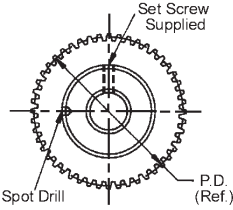
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P96S7-26 | P96A7-26 | 26• | .2708 | .291 |
| P96S7-28 | P96A7-28 | 28• | .2916 | .312 |
| P96S7-30 | P96A7-30 | 30• | .3125 | .333 |
| P96S7-32 | P96A7-32 | 32• | .3333 | .354 |
| P96S7-34 | P96A7-34 | 34 | .3541 | .375 |
| P96S7-35 | P96A7-35 | 35 | .3645 | .385 |
| P96S7-36 | P96A7-36 | 36 | .3750 | .395 |
| P96S7-38 | P96A7-38 | 38 | .3958 | .416 |
| P96S7-40 | P96A7-40 | 40 | .4166 | .437 |
| P96S7-42 | P96A7-42 | 42 | .4375 | .458 |
| P96S7-45 | P96A7-45 | 45 | .4687 | .489 |
| P96S7-46 | P96A7-46 | 46 | .4791 | .500 |
| P96S7-48 | P96A7-48 | 48 | .5000 | .520 |
| P96S7-50 | P96A7-50 | 50 | .5208 | .541 |
| P96S7-54 | P96A7-54 | 54 | .5625 | .583 |
| P96S7-55 | P96A7-55 | 55 | .5729 | .593 |
| P96S7-56 | P96A7-56 | 56 | .5833 | .604 |
| P96S7-60 | P96A7-60 | 60 | .6250 | .645 |
| P96S7-62 | P96A7-62 | 62 | .6458 | .666 |
| P96S7-64 | P96A7-64 | 64 | .6666 | .687 |
| P96S7-65 | P96A7-65 | 65 | .6770 | .697 |
| P96S7-70 | P96A7-70 | 70 | .7291 | .750 |
| P96S7-72 | P96A7-72 | 72 | .7500 | .770 |
| P96S7-75 | P96A7-75 | 75 | .7812 | .802 |
| P96S7-78 | P96A7-78 | 78 | .8125 | .833 |
| P96S7-80 | P96A7-80 | 80 | .8333 | .854 |
| P96S7-84 | P96A7-84 | 84 | .8750 | .895 |
| P96S7-90 | P96A7-90 | 90 | .9375 | .958 |
| P96S7-96 | P96A7-96 | 96 | 1.0000 | 1.020 |
| P96S7-100 | P96A7-100 | 100 | 1.0416 | 1.062 |
| P96S7-105 | P96A7-105 | 105 | 1.0937 | 1.114 |
| P96S7-108 | P96A7-108 | 108 | 1.1250 | 1.145 |
| P96S7-120 | P96A7-120 | 120 | 1.2500 | 1.270 |
| P96S7-125 | P96A7-125 | 125 | 1.3020 | 1.322 |
| P96S7-132 | P96A7-132 | 132 | 1.3750 | 1.395 |
| P96S7-140 | P96A7-140 | 140 | 1.4583 | 1.479 |
| P96S7-144 | P96A7-144 | 144 | 1.5000 | 1.520 |
| P96S7-150 | P96A7-150 | 150 | 1.5625 | 1.583 |
| P96S7-160 | P96A7-160 | 160 | 1.6666 | 1.687 |
| P96S7-180 | P96A7-180 | 180 | 1.8750 | 1.895 |
| P96S7-190 | P96A7-190 | 190 | 1.9791 | 2.000 |
| P96S7-192 | P96A7-192 | 192 | 2.0000 | 2.020 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 96 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



- For 26-32 teeth hub diameter equals .24

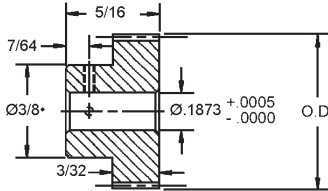
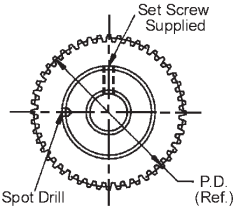
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P96S10-26 | P96A10-26 | 26• | .2708 | .291 |
| P96S10-27 | P96A10-27 | 27• | .2812 | .302 |
| P96S10-28 | P96A10-28 | 28• | .2916 | .312 |
| P96S10-29 | P96A10-29 | 29• | .3020 | .322 |
| P96S10-30 | P96A10-30 | 30• | .3125 | .333 |
| P96S10-32 | P96A10-32 | 32• | .3333 | .354 |
| P96S10-34 | P96A10-34 | 34 | .3541 | .375 |
| P96S10-35 | P96A10-35 | 35 | .3645 | .385 |
| P96S10-36 | P96A10-36 | 36 | .3750 | .395 |
| P96S10-38 | P96A10-38 | 38 | .3958 | .416 |
| P96S10-39 | P96A10-39 | 39 | .4062 | .427 |
| P96S10-40 | P96A10-40 | 40 | .4166 | .437 |
| P96S10-42 | P96A10-42 | 42 | .4375 | .458 |
| P96S10-44 | P96A10-44 | 44 | .4583 | .479 |
| P96S10-46 | P96A10-46 | 46 | .4791 | .500 |
| P96S10-47 | P96A10-47 | 47 | .4895 | .510 |
| P96S10-48 | P96A10-48 | 48 | .5000 | .520 |
| P96S10-50 | P96A10-50 | 50 | .5208 | .541 |
| P96S10-52 | P96A10-52 | 52 | .5416 | .562 |
| P96S10-54 | P96A10-54 | 54 | .5625 | .583 |
| P96S10-56 | P96A10-56 | 56 | .5833 | .604 |
| P96S10-58 | P96A10-58 | 58 | .6041 | .625 |
| P96S10-60 | P96A10-60 | 60 | .6250 | .645 |
| P96S10-62 | P96A10-62 | 62 | .6458 | .666 |
| P96S10-64 | P96A10-64 | 64 | .6666 | .687 |
| P96S10-65 | P96A10-65 | 65 | .6770 | .697 |
| P96S10-67 | P96A10-67 | 67 | .6979 | .718 |
| P96S10-70 | P96A10-70 | 70 | .7291 | .750 |
| P96S10-72 | P96A10-72 | 72 | .7500 | .770 |
| P96S10-74 | P96A10-74 | 74 | .7708 | .791 |
| P96S10-75 | P96A10-75 | 75 | .7812 | .802 |
| P96S10-80 | P96A10-80 | 80 | .8333 | .854 |
| P96S10-84 | P96A10-84 | 84 | .8750 | .895 |
| P96S10-88 | P96A10-88 | 88 | .9166 | .937 |
| P96S10-90 | P96A10-90 | 90 | .9375 | .958 |
| P96S10-96 | P96A10-96 | 96 | 1.0000 | 1.020 |
| P96S10-100 | P96A10-100 | 100 | 1.0416 | 1.062 |
| P96S10-105 | P96A10-105 | 105 | 1.0937 | 1.114 |
| P96S10-127 | P96A10-127 | 127 | 1.3229 | 1.343 |
| P96S10-144 | P96A10-144 | 144 | 1.5000 | 1.520 |
| P96S10-156 | P96A10-156 | 156 | 1.6250 | 1.645 |
| P96S10-168 | P96A10-168 | 168 | 1.7500 | 1.770 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|-------|---|--------------|----------------|
| 96 | PIN HUB | 3/16" | 3/32" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



- For 36 teeth hub diameter equals .34

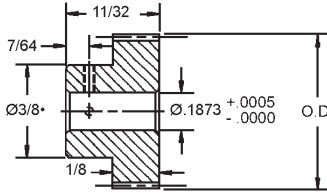
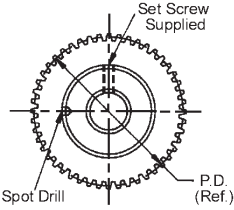
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P96S17-36 | P96A17-36 | 36• | .3750 | .395 |
| P96S17-40 | P96A17-40 | 40 | .4166 | .437 |
| P96S17-42 | P96A17-42 | 42 | .4375 | .458 |
| P96S17-44 | P96A17-44 | 44 | .4583 | .479 |
| P96S17-45 | P96A17-45 | 45 | .4687 | .489 |
| P96S17-48 | P96A17-48 | 48 | .5000 | .520 |
| P96S17-50 | P96A17-50 | 50 | .5208 | .541 |
| P96S17-54 | P96A17-54 | 54 | .5625 | .583 |
| P96S17-60 | P96A17-60 | 60 | .6250 | .645 |
| P96S17-61 | P96A17-61 | 61 | .6354 | .656 |
| P96S17-64 | P96A17-64 | 64 | .6666 | .687 |
| P96S17-70 | P96A17-70 | 70 | .7291 | .750 |
| P96S17-72 | P96A17-72 | 72 | .7500 | .770 |
| P96S17-77 | P96A17-77 | 77 | .8020 | .822 |
| P96S17-79 | P96A17-79 | 79 | .8229 | .843 |
| P96S17-80 | P96A17-80 | 80 | .8333 | .854 |
| P96S17-85 | P96A17-85 | 85 | .8854 | .906 |
| P96S17-90 | P96A17-90 | 90 | .9375 | .958 |
| P96S17-92 | P96A17-92 | 92 | .9583 | .979 |
| P96S17-95 | P96A17-95 | 95 | .9895 | 1.010 |
| P96S17-96 | P96A17-96 | 96 | 1.0000 | 1.020 |
| P96S17-100 | P96A17-100 | 100 | 1.0416 | 1.062 |
| P96S17-108 | P96A17-108 | 108 | 1.1250 | 1.145 |
| P96S17-110 | P96A17-110 | 110 | 1.1458 | 1.166 |
| P96S17-120 | P96A17-120 | 120 | 1.2500 | 1.270 |
| P96S17-130 | P96A17-130 | 130 | 1.3541 | 1.375 |
| P96S17-132 | P96A17-132 | 132 | 1.3750 | 1.395 |
| P96S17-140 | P96A17-140 | 140 | 1.4583 | 1.479 |
| P96S17-144 | P96A17-144 | 144 | 1.5000 | 1.520 |
| P96S17-150 | P96A17-150 | 150 | 1.5625 | 1.583 |
| P96S17-156 | P96A17-156 | 156 | 1.6250 | 1.645 |
| P96S17-160 | P96A17-160 | 160 | 1.6666 | 1.687 |
| P96S17-168 | P96A17-168 | 168 | 1.7500 | 1.770 |
| P96S17-180 | P96A17-180 | 180 | 1.8750 | 1.895 |
| P96S17-190 | P96A17-190 | 190 | 1.9791 | 2.000 |
| P96S17-192 | P96A17-192 | 192 | 2.0000 | 2.020 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|-------|------|---|--------------|----------------|
| 96 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



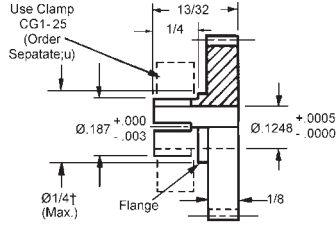
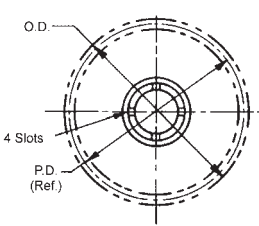
- For 36-38 teeth hub diameter equals .34
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P96S19-36 | P96A19-36 | 36• | .3750 | .395 |
| P96S19-38 | P96A19-38 | 38• | .3958 | .416 |
| P96S19-40 | P96A19-40 | 40 | .4166 | .437 |
| P96S19-42 | P96A19-42 | 42 | .4375 | .458 |
| P96S19-44 | P96A19-44 | 44 | .4583 | .479 |
| P96S19-45 | P96A19-45 | 45 | .4687 | .489 |
| P96S19-48 | P96A19-48 | 48 | .5000 | .520 |
| P96S19-50 | P96A19-50 | 50 | .5208 | .541 |
| P96S19-52 | P96A19-52 | 52 | .5416 | .562 |
| P96S19-54 | P96A19-54 | 54 | .5625 | .583 |
| P96S19-60 | P96A19-60 | 60 | .6250 | .645 |
| P96S19-64 | P96A19-64 | 64 | .6666 | .687 |
| P96S19-66 | P96A19-66 | 66 | .6875 | .708 |
| P96S19-70 | P96A19-70 | 70 | .7291 | .750 |
| P96S19-72 | P96A19-72 | 72 | .7500 | .770 |
| P96S19-75 | P96A19-75 | 75 | .7812 | .802 |
| P96S19-77 | P96A19-77 | 77 | .8020 | .822 |
| P96S19-80 | P96A19-80 | 80 | .8333 | .854 |
| P96S19-85 | P96A19-85 | 85 | .8854 | .906 |
| P96S19-90 | P96A19-90 | 90 | .9375 | .958 |
| P96S19-95 | P96A19-95 | 95 | .9895 | 1.010 |
| P96S19-96 | P96A19-96 | 96 | 1.0000 | 1.020 |
| P96S19-100 | P96A19-100 | 100 | 1.0416 | 1.062 |
| P96S19-105 | P96A19-105 | 105 | 1.0937 | 1.114 |
| P96S19-110 | P96A19-110 | 110 | 1.1485 | 1.166 |
| P96S19-120 | P96A19-120 | 120 | 1.2500 | 1.270 |
| P96S19-130 | P96A19-130 | 130 | 1.3541 | 1.375 |
| P96S19-140 | P96A19-140 | 140 | 1.4583 | 1.479 |
| P96S19-160 | P96A19-160 | 160 | 1.6666 | 1.687 |
| P96S19-180 | P96A19-180 | 180 | 1.8750 | 1.895 |
| P96S19-192 | P96A19-192 | 192 | 2.0000 | 2.020 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|----------------|------|------|---|--------------|----------------|
| 96 | CLAMP STYLE | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



† Teeth may runout on flange diameter.

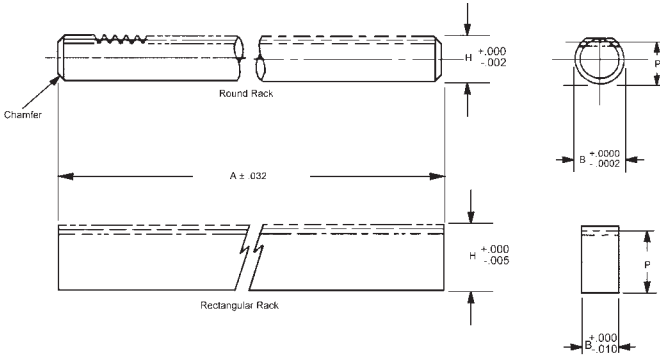
Available on request, other numbers of teeth, Agma Quality 12 and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| C96S7-24 | C96A7-24 | 24† | .2500 | .270 |
| C96S7-25 | C96A7-25 | 25† | .2604 | .281 |
| C96S7-26 | C96A7-26 | 26† | .2708 | .291 |
| C96S7-28 | C96A7-28 | 28 | .2916 | .312 |
| C96S7-30 | C96A7-30 | 30 | .3125 | .333 |
| C96S7-32 | C96A7-32 | 32 | .3333 | .354 |
| C96S7-33 | C96A7-33 | 33 | .3437 | .364 |
| C96S7-34 | C96A7-34 | 34 | .3541 | .375 |
| C96S7-35 | C96A7-35 | 35 | .3645 | .385 |
| C96S7-36 | C96A7-36 | 36 | .3750 | .395 |
| C96S7-38 | C96A7-38 | 38 | .3958 | .416 |
| C96S7-40 | C96A7-40 | 40 | .4166 | .437 |
| C96S7-42 | C96A7-42 | 42 | .4375 | .458 |
| C96S7-44 | C96A7-44 | 44 | .4583 | .479 |
| C96S7-48 | C96A7-48 | 48 | .5000 | .520 |
| C96S7-50 | C96A7-50 | 50 | .5208 | .541 |
| C96S7-52 | C96A7-52 | 52 | .5416 | .562 |
| C96S7-54 | C96A7-54 | 54 | .5625 | .583 |
| C96S7-56 | C96A7-56 | 56 | .5833 | .604 |
| C96S7-58 | C96A7-58 | 58 | .6041 | .625 |
| C96S7-60 | C96A7-60 | 60 | .6250 | .645 |
| C96S7-64 | C96A7-64 | 64 | .6666 | .687 |
| C96S7-70 | C96A7-70 | 70 | .7291 | .750 |
| C96S7-72 | C96A7-72 | 72 | .7500 | .770 |
| C96S7-76 | C96A7-76 | 76 | .7916 | .812 |
| C96S7-78 | C96A7-78 | 78 | .8125 | .833 |
| C96S7-80 | C96A7-80 | 80 | .8333 | .854 |
| C96S7-84 | C96A7-84 | 84 | .8750 | .895 |
| C96S7-90 | C96A7-90 | 90 | .9375 | .958 |
| C96S7-95 | C96A7-95 | 95 | .9895 | 1.010 |
| C96S7-96 | C96A7-96 | 96 | 1.0000 | 1.020 |
| C96S7-100 | C96A7-100 | 100 | 1.0416 | 1.062 |
| C96S7-105 | C96A7-105 | 105 | 1.0937 | 1.114 |
| C96S7-108 | C96A7-108 | 108 | 1.1250 | 1.145 |
| C96S7-110 | C96A7-110 | 110 | 1.1458 | 1.166 |
| C96S7-115 | C96A7-115 | 115 | 1.1979 | 1.218 |
| C96S7-120 | C96A7-120 | 120 | 1.2500 | 1.270 |
| C96S7-127 | C96A7-127 | 127 | 1.3229 | 1.343 |
| C96S7-132 | C96A7-132 | 132 | 1.3750 | 1.395 |
| C96S7-144 | C96A7-144 | 144 | 1.5000 | 1.520 |
| C96S7-168 | C96A7-168 | 168 | 1.7500 | 1.770 |
| C96S7-180 | C96A7-180 | 180 | 1.8750 | 1.895 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

GEAR RACKS

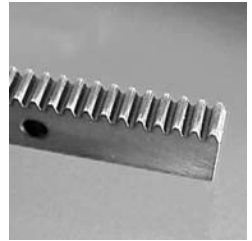
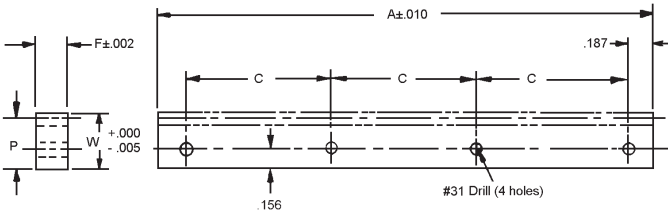
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 96 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-20 | ROUND | 96 | .1456 | .1872 | 11 | .156 | 10 |
| R2-16 | RECTANGULAR | 96 | .3466 | .167±.005 | 11 | .355 | 10 |

Available on request: 14 - 1/2° pressure angle, special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 96 | RECTANGULAR | 416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

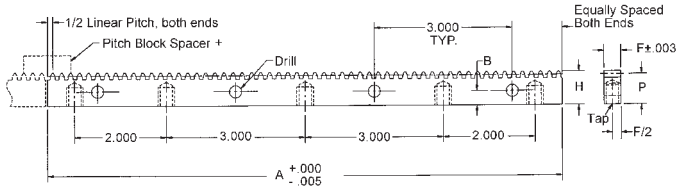


| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|---------------|----------|----------|------|------|------|
| R4-21 | STAINLESS ST. | 3" | .3446 | .355 | .167 | .875 |
| R4-22 | ALUMINUM | | | | | |

Available on request: special, modified and custom racks.

GEAR RACKS

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 96 | RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



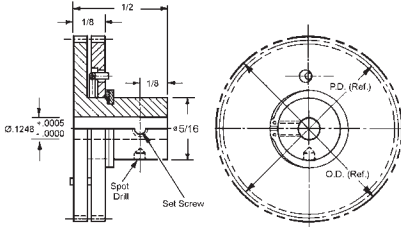
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

| RACKS STOCK NO. | SPACER BLOCK STOCK NO. | AGMA QTY. NO. | MAX ACCUM. ERROR | TOOTH TO TOOTH ERROR | PITCH | LINEAR PITCH | A INCH | P REF. | H +.000 -.005 | F | B | DRILL | TAP |
|-----------------------|---------------------------------|---------------------|------------------------|-------------------------------|-------|-----------------|-----------|-----------|---------------------|------|------|-------|--------------|
| | | | | | | | | | | | | | |
| R1-11-G1 | R1-11-SB | 10* | .0014 | .0005 | 96 | .0327 | 11.022 | .3396 | .350 | .167 | .156 | #31 | #4-40 X 3/16 |
| R3-8-G1 | R3-8-SB | 10* | .0014 | .0005 | 96 | .0327 | 11.022 | .3446 | .355 | .167 | .156 | #31 | #4-40 X 3/16 |

* Higher quality on request.

ANTI-BACKLASH PINIONS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 96 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



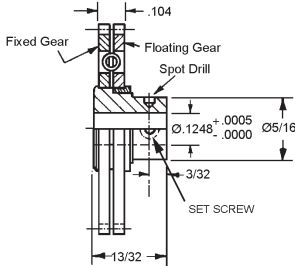
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|--------------|-------|------------|--------------|
| AP96FS-60 | AP96GS-60 | 60 | | .6250 | .646 |
| AP96FS-72 | AP96GS-72 | 72 | .1248 | .7500 | .771 |
| AP96FS-96 | AP96GS-96 | 96 | | 1.0000 | 1.021 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

HUB MATERIAL:
303 Stainless Steel

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|------|--|--------------|-------------|
| 96 | PIN HUB | 1/8" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



HUB MATERIAL: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024 T4 ALUMINUM ANODIZED STOCK NO. | NO.OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE |
|-------------------------------|-------------------------------------|-------------|------------|--------------|--------------|
| AP96AS-54 | - | 54 | .5625 | .583 | SCISSOR |
| AP96AS-55 | - | 55 | .5729 | .593 | |
| AP96AS-56 | - | 56 | .5833 | .604 | |
| AP96AS-60 | - | 60 | .6250 | .645 | |
| AP96AS-64 | - | 64 | .6666 | .687 | |
| AP96AS-66 | - | 66 | .6875 | .708 | |
| AP96AS-72 | AP96NS-72 | 72 | .7500 | .770 | |
| AP96AS-80 | AP96NS-80 | 80 | .8333 | .854 | |
| AP96AS-84 | AP96NS-84 | 84 | .8750 | .895 | |
| AP96AS-90 | AP96NS-90 | 90 | .9375 | .958 | |
| AP96AS-95 | AP96NS-95 | 95 | .9895 | 1.010 | COIL |
| AP96A-96 | AP96N-96 | 96 | 1.0000 | 1.020 | |
| AP96A-105 | AP96N-105 | 105 | 1.0937 | 1.114 | |
| AP96A-108 | AP96N-108 | 108 | 1.1250 | 1.145 | |
| AP96A-112 | AP96N-112 | 112 | 1.1666 | 1.187 | |
| AP96A-120 | AP96N-120 | 120 | 1.2500 | 1.270 | |
| AP96A-126 | AP96N-126 | 126 | 1.3125 | 1.333 | |
| AP96A-128 | AP96N-128 | 128 | 1.3333 | 1.354 | |
| AP96A-140 | AP96N-140 | 140 | 1.4583 | 1.479 | |
| AP96A-144 | AP96N-144 | 144 | 1.5000 | 1.520 | |
| AP96A-150 | AP96N-150 | 150 | 1.5625 | 1.583 | |
| AP96A-155 | AP96N-155 | 155 | 1.6145 | 1.635 | |
| AP96A-160 | AP96N-160 | 160 | 1.6666 | 1.687 | |
| AP96A-165 | AP96N-165 | 165 | 1.7187 | 1.739 | |
| AP96A-168 | AP96N-168 | 168 | 1.7500 | 1.770 | |
| AP96A-192 | AP96N-192 | 192 | 2.0000 | 2.020 | |
| AP96A-216 | AP96N-216 | 216 | 2.2500 | 2.270 | |
| AP96A-240 | AP96N-240 | 240 | 2.5000 | 2.520 | |
| AP96A-264 | AP96N-264 | 264 | 2.7500 | 2.770 | |

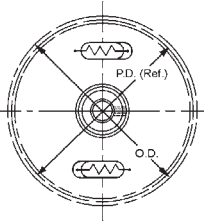
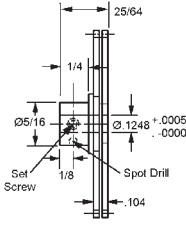
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14;
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 96 | PIN HUB | 1/8" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP96SS-76 | AP96TS-76 | 76 | .7916 |
| AP96SS-80 | AP96TS-80 | 80 | .8333 |
| AP96SS-84 | AP96TS-84 | 84 | .8750 |
| AP96SS-90 | AP96TS-90 | 90 | .9375 |
| AP96SS-96 | AP96TS-96 | 96 | 1.0000 |
| AP96SS-100 | AP96TS-100 | 100 | 1.0416 |
| AP96SS-108 | AP96TS-108 | 108 | 1.1250 |
| AP96SS-112 | AP96TS-112 | 112 | 1.1666 |
| AP96SS-120 | AP96TS-120 | 120 | 1.2500 |
| AP96SS-125 | AP96TS-125 | 125 | 1.3020 |
| AP96S-130 | AP96T-130 | 130 | 1.3541 |
| AP96S-135 | AP96T-135 | 135 | 1.4062 |
| AP96S-140 | AP96T-140 | 140 | 1.4583 |
| AP96S-144 | AP96T-144 | 144 | 1.5000 |
| AP96S-145 | AP96T-145 | 145 | 1.5104 |
| AP96S-150 | AP96T-150 | 150 | 1.5625 |
| AP96S-160 | AP96T-160 | 160 | 1.6666 |
| AP96S-170 | AP96T-170 | 170 | 1.7708 |
| AP96S-180 | AP96T-180 | 180 | 1.8750 |
| AP96S-190 | AP96T-190 | 190 | 1.9791 |
| AP96S-192 | AP96T-192 | 192 | 2.0000 |
| AP96S-200 | AP96T-200 | 200 | 2.0833 |
| AP96S-210 | AP96T-210 | 210 | 2.1875 |
| AP96S-220 | AP96T-220 | 220 | 2.2916 |
| AP96S-230 | AP96T-230 | 230 | 2.3958 |
| AP96S-240 | AP96T-240 | 240 | 2.5000 |
| AP96S-250 | AP96T-250 | 250 | 2.6041 |
| AP96S-260 | AP96T-260 | 260 | 2.7083 |
| AP96S-264 | AP96T-264 | 264 | 2.7500 |
| AP96S-270 | AP96T-270 | 270 | 2.8125 |
| AP96S-288 | AP96T-288 | 288 | 3.0000 |
| AP96S-300 | AP96T-300 | 300 | 3.1250 |

O.D. = P.D. +.031

HUB MATERIAL: 303 Stainless Steel

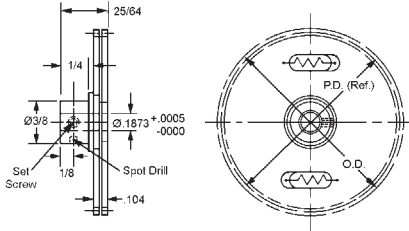
Available on request:

- Other numbers of teeth;
- AGMA Quality 12 and 14 (some dimensions may vary);
- 14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|-------|--|--------------|-------------|
| 96 | PIN HUB | 3/16" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP96US-90 | AP96VS-90 | 90 | .9375 |
| AP96US-96 | AP96VS-96 | 96 | 1.0000 |
| AP96US-100 | AP96VS-100 | 100 | 1.0416 |
| AP96US-108 | AP96VS-108 | 108 | 1.1250 |
| AP96US-112 | AP96VS-112 | 112 | 1.1666 |
| AP96US-120 | AP96VS-120 | 120 | 1.2500 |
| AP96US-125 | AP96VS-125 | 125 | 1.3020 |
| AP96U-130 | AP96V-130 | 130 | 1.3541 |
| AP96U-135 | AP96V-135 | 135 | 1.4062 |
| AP96U-140 | AP96V-140 | 140 | 1.4583 |
| AP96U-144 | AP96V-144 | 144 | 1.5000 |
| AP96U-145 | AP96V-145 | 145 | 1.5104 |
| AP96U-150 | AP96V-150 | 150 | 1.5625 |
| AP96U-160 | AP96V-160 | 160 | 1.6666 |
| AP96U-170 | AP96V-170 | 170 | 1.7708 |
| AP96U-180 | AP96V-180 | 180 | 1.8750 |
| AP96U-190 | AP96V-190 | 190 | 1.9791 |
| AP96U-192 | AP96V-192 | 192 | 2.0000 |
| AP96U-200 | AP96V-200 | 200 | 2.0833 |
| AP96U-210 | AP96V-210 | 210 | 2.1875 |
| AP96U-220 | AP96V-220 | 220 | 2.2916 |
| AP96U-230 | AP96V-230 | 230 | 2.3958 |
| AP96U-240 | AP96V-240 | 240 | 2.5000 |
| AP96U-250 | AP96V-250 | 250 | 2.6041 |
| AP96U-260 | AP96V-260 | 260 | 2.7083 |
| AP96U-264 | AP96V-264 | 264 | 2.7500 |
| AP96U-270 | AP96V-270 | 270 | 2.8125 |
| AP96U-288 | AP96V-288 | 288 | 3.0000 |
| AP96U-300 | AP96V-300 | 300 | 3.1250 |

O.D. = P.D. +.031

HUB MATERIAL: 303 Stainless Steel

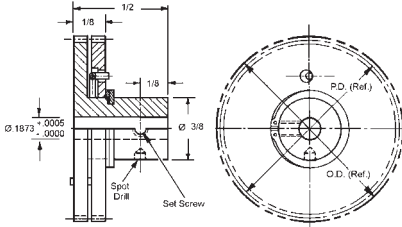
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14 (some dimensions may vary);
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH PINIONS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|-------|------|--|--------------|-------------|
| 96 | PIN HUB | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

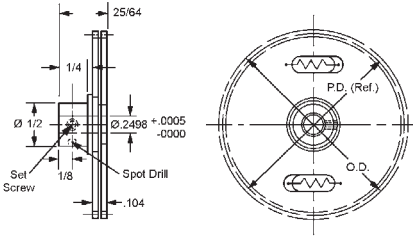


| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|---------------------------|--------------------|--------------|-------|------------|--------------|
| AP96HS-60 | AP96JS-60 | 60 | | .6250 | .646 |
| AP96HS-72 | AP96JS-72 | 72 | .1873 | .7500 | .771 |
| AP96HS-96 | AP96JS-96 | 96 | | 1.0000 | 1.021 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------|------|-------|--|--------------|-------------|
| 96 | PIN HUB | 1/4" | .104" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AP96WS-96 | AP96XS-96 | 96 | 1.0000 |
| AP96WS-100 | AP96XS-100 | 100 | 1.0416 |
| AP96WS-108 | AP96XS-108 | 108 | 1.1250 |
| AP96WS-112 | AP96XS-112 | 112 | 1.1666 |
| AP96WS-120 | AP96XS-120 | 120 | 1.2500 |
| AP96WS-125 | AP96XS-125 | 125 | 1.3020 |
| AP96W-130 | AP96X-130 | 130 | 1.3541 |
| AP96W-135 | AP96X-135 | 135 | 1.4062 |
| AP96W-140 | AP96X-140 | 140 | 1.4583 |
| AP96W-144 | AP96X-144 | 144 | 1.5000 |
| AP96W-145 | AP96X-145 | 145 | 1.5104 |
| AP96W-150 | AP96X-150 | 150 | 1.5625 |
| AP96W-160 | AP96X-160 | 160 | 1.6666 |
| AP96W-170 | AP96X-170 | 170 | 1.7708 |
| AP96W-180 | AP96X-180 | 180 | 1.8750 |
| AP96W-190 | AP96X-190 | 190 | 1.9791 |
| AP96W-192 | AP96X-192 | 192 | 2.0000 |
| AP96W-200 | AP96X-200 | 200 | 2.0833 |
| AP96W-210 | AP96X-210 | 210 | 2.1875 |
| AP96W-220 | AP96X-220 | 220 | 2.2916 |
| AP96W-230 | AP96X-230 | 230 | 2.3958 |
| AP96W-240 | AP96X-240 | 240 | 2.5000 |
| AP96W-250 | AP96X-250 | 250 | 2.6041 |
| AP96W-260 | AP96X-260 | 260 | 2.7083 |
| AP96W-264 | AP96X-264 | 264 | 2.7500 |
| AP96W-270 | AP96X-270 | 270 | 2.8125 |
| AP96W-288 | AP96X-288 | 288 | 3.0000 |
| AP96W-300 | AP96X-300 | 300 | 3.1250 |

O.D. = P.D. +.031

HUB MATERIAL: 303 Stainless Steel

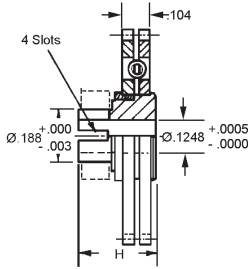
Available on request:

Other numbers of teeth;
AGMA Quality 12 and 14 (some dimensions may vary);
14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 96 | CLAMP STYLE | 1/8" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Hub Material: 303 Stainless Steel

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO.OF TEETH | PITCH DIA. | OUTSIDE DIA. | SPRING STYLE | H |
|---|--|----------------|---------------|-----------------|-----------------|-------|
| AC96AS-54 | - | 54 | .5625 | .583 | SCISSOR | 27/64 |
| AC96AS-55 | - | 55 | .5729 | .593 | | |
| AC96AS-56 | - | 56 | .5833 | .604 | | |
| AC96AS-60 | - | 60 | .6250 | .645 | | |
| AC96AS-64 | - | 64 | .6666 | .687 | | |
| AC96AS-66 | - | 66 | .6875 | .708 | | |
| AC96AS-72 | AC96NS-72 | 72 | .7500 | .770 | | |
| AC96AS-80 | AC96NS-80 | 80 | .8333 | .854 | | |
| AC96AS-84 | AC96NS-84 | 84 | .8750 | .895 | | |
| AC96AS-90 | AC96NS-90 | 90 | .9375 | .958 | | |
| AC96AS-95 | AC96NS-95 | 95 | .9895 | 1.010 | | |
| AC96A-96 | AC96N-96 | 96 | 1.0000 | 1.020 | | |
| AC96A-105 | AC96N-105 | 105 | 1.0937 | 1.114 | COIL | 25/64 |
| AC96A-108 | AC96N-108 | 108 | 1.1250 | 1.145 | | |
| AC96A-112 | AC96N-112 | 112 | 1.1666 | 1.187 | | |
| AC96A-120 | AC96N-120 | 120 | 1.2500 | 1.270 | | |
| AC96A-126 | AC96N-126 | 126 | 1.3125 | 1.333 | | |
| AC96A-128 | AC96N-128 | 128 | 1.3333 | 1.354 | | |
| AC96A-140 | AC96N-140 | 140 | 1.4583 | 1.479 | | |
| AC96A-144 | AC96N-144 | 144 | 1.5000 | 1.520 | | |
| AC96A-150 | AC96N-150 | 150 | 1.5625 | 1.583 | | |
| AC96A-155 | AC96N-155 | 155 | 1.6145 | 1.635 | | |
| AC96A-160 | AC96N-160 | 160 | 1.6666 | 1.687 | | |
| AC96A-165 | AC96N-165 | 165 | 1.7187 | 1.739 | | |
| AC96A-168 | AC96N-168 | 168 | 1.7500 | 1.770 | | |
| AC96A-192 | AC96N-192 | 192 | 2.0000 | 2.020 | | |
| AC96A-216 | AC96N-216 | 216 | 2.2500 | 2.270 | | |
| AC96A-240 | AC96N-240 | 240 | 2.5000 | 2.520 | | |
| AC96A-264 | AC96N-264 | 264 | 2.7500 | 2.770 | | |

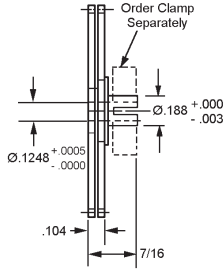
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 96 | CLAMP STYLE | 1/8" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC96SS-76 | AC96TS-76 | 76 | .7916 |
| AC96SS-80 | AC96TS-80 | 80 | .8333 |
| AC96SS-84 | AC96TS-84 | 84 | .8750 |
| AC96SS-90 | AC96TS-90 | 90 | .9375 |
| AC96SS-96 | AC96TS-96 | 96 | 1.0000 |
| AC96SS-100 | AC96TS-100 | 100 | 1.0416 |
| AC96SS-108 | AC96TS-108 | 108 | 1.1250 |
| AC96SS-112 | AC96TS-112 | 112 | 1.1666 |
| AC96SS-120 | AC96TS-120 | 120 | 1.2500 |
| AC96SS-125 | AC96TS-125 | 125 | 1.3020 |
| AC96S-130 | AC96T-130 | 130 | 1.3541 |
| AC96S-135 | AC96T-135 | 135 | 1.4062 |
| AC96S-140 | AC96T-140 | 140 | 1.4583 |
| AC96S-144 | AC96T-144 | 144 | 1.5000 |
| AC96S-145 | AC96T-145 | 145 | 1.5104 |
| AC96S-150 | AC96T-150 | 150 | 1.5625 |
| AC96S-160 | AC96T-160 | 160 | 1.6666 |
| AC96S-170 | AC96T-170 | 170 | 1.7708 |
| AC96S-180 | AC96T-180 | 180 | 1.8750 |
| AC96S-190 | AC96T-190 | 190 | 1.9791 |
| AC96S-192 | AC96T-192 | 192 | 2.0000 |
| AC96S-200 | AC96T-200 | 200 | 2.0833 |
| AC96S-210 | AC96T-210 | 210 | 2.1875 |
| AC96S-220 | AC96T-220 | 220 | 2.2916 |
| AC96S-230 | AC96T-230 | 230 | 2.3958 |
| AC96S-240 | AC96T-240 | 240 | 2.5000 |
| AC96S-250 | AC96T-250 | 250 | 2.6041 |
| AC96S-260 | AC96T-260 | 260 | 2.7083 |
| AC96S-264 | AC96T-264 | 264 | 2.7500 |
| AC96S-270 | AC96T-270 | 270 | 2.8125 |
| AC96S-288 | AC96T-288 | 288 | 3.0000 |
| AC96S-300 | AC96T-300 | 300 | 3.1250 |

O.D. = P.D. +.031

HUB MATERIAL: 303 Stainless Steel

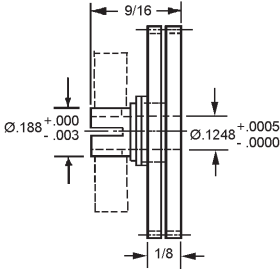
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 96 | CLAMP STYLE | 1/8" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



HUB MATERIAL:
303 Stainless Steel

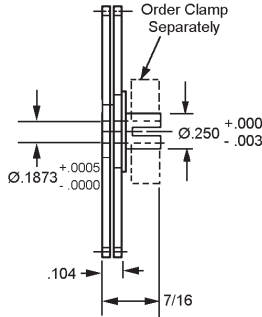
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-----------------|-------|---------------|-----------------|
| AC96FS-60 | AC96GS-60 | 60 | | .6250 | .646 |
| AC96FS-72 | AC96GS-72 | 72 | .1248 | .7500 | .771 |
| AC96FS-96 | AC96GS-96 | 96 | | 1.0000 | 1.021 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------|-------|------|--|--------------|-------------|
| 96 | CLAMP STYLE | 3/16" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|-------------------------------|-------------------------------------|--------------|----------------|
| AC96US-90 | AC96VS-90 | 90 | .9375 |
| AC96US-96 | AC96VS-96 | 96 | 1.0000 |
| AC96US-100 | AC96VS-100 | 100 | 1.0416 |
| AC96US-108 | AC96VS-108 | 108 | 1.1250 |
| AC96US-112 | AC96VS-112 | 112 | 1.1666 |
| AC96US-120 | AC96VS-120 | 120 | 1.2500 |
| AC96US-125 | AC96VS-125 | 125 | 1.3020 |
| AC96U-130 | AC96V-130 | 130 | 1.3541 |
| AC96U-135 | AC96V-135 | 135 | 1.4062 |
| AC96U-140 | AC96V-140 | 140 | 1.4583 |
| AC96U-144 | AC96V-144 | 144 | 1.5000 |
| AC96U-145 | AC96V-145 | 145 | 1.5104 |
| AC96U-150 | AC96V-150 | 150 | 1.5625 |
| AC96U-160 | AC96V-160 | 160 | 1.6666 |
| AC96U-170 | AC96V-170 | 170 | 1.7708 |
| AC96U-180 | AC96V-180 | 180 | 1.8750 |
| AC96U-190 | AC96V-190 | 190 | 1.9791 |
| AC96U-192 | AC96V-192 | 192 | 2.0000 |
| AC96U-200 | AC96V-200 | 200 | 2.0833 |
| AC96U-210 | AC96V-210 | 210 | 2.1875 |
| AC96U-220 | AC96V-220 | 220 | 2.2916 |
| AC96U-230 | AC96V-230 | 230 | 2.3958 |
| AC96U-240 | AC96V-240 | 240 | 2.5000 |
| AC96U-250 | AC96V-250 | 250 | 2.6041 |
| AC96U-260 | AC96V-260 | 260 | 2.7083 |
| AC96U-264 | AC96V-264 | 264 | 2.7500 |
| AC96U-270 | AC96V-270 | 270 | 2.8125 |
| AC96U-288 | AC96V-288 | 288 | 3.0000 |
| AC96U-300 | AC96V-300 | 300 | 3.1250 |

HUB MATERIAL: 303 Stainless Steel

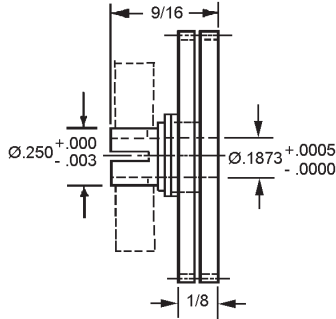
Available on request:

Other numbers of teeth;
 AGMA Quality 12 and 14 (some dimensions may vary);
 14-12° pressure angle.

For Couplings See Section G.
 For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|-------|------|--|--------------|-------------|
| 96 | CLAMP STYLE | 3/16" | 1/8" | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



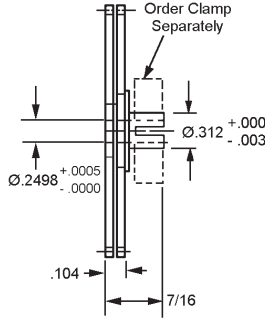
| STAINLESS STEEL STOCK NO. | ALUMINUM STOCK NO. | NO. OF TEETH | BORE | PITCH DIA. | OUTSIDE DIA. |
|------------------------------------|--------------------------|-----------------|-------|---------------|-----------------|
| AC96HS-60 | AC96JS-60 | 60 | | .6250 | .646 |
| AC96HS-72 | AC96JS-72 | 72 | .1873 | .7500 | .771 |
| AC96HS-96 | AC96JS-96 | 96 | | 1.0000 | 1.021 |

Available on request:
Other numbers of teeth
AGMA Quality 12 and 14
14-1/2° Pressure Angle

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------|------|------|--|--------------|-------------|
| 96 | CLAMP STYLE | 1/4" | .104 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIAMETER |
|---|---|-----------------|-------------------|
| AC96WS-96 | AC96XS-96 | 96 | 1.0000 |
| AC96WS-100 | AC96XS-100 | 100 | 1.0416 |
| AC96WS-108 | AC96XS-108 | 108 | 1.1250 |
| AC96WS-112 | AC96XS-112 | 112 | 1.1666 |
| AC96WS-120 | AC96XS-120 | 120 | 1.2500 |
| AC96WS-125 | AC96XW-125 | 125 | 1.3020 |
| AC96W-130 | AC96X-130 | 130 | 1.3541 |
| AC96W-135 | AC96X-135 | 135 | 1.4062 |
| AC96W-140 | AC96X-140 | 140 | 1.4583 |
| AC96W-144 | AC96X-144 | 144 | 1.5000 |
| AC96W-145 | AC96X-145 | 145 | 1.5104 |
| AC96W-150 | AC96X-150 | 150 | 1.5625 |
| AC96W-160 | AC96X-160 | 160 | 1.6666 |
| AC96W-170 | AC96X-170 | 170 | 1.7708 |
| AC96W-180 | AC96X-180 | 180 | 1.8750 |
| AC96W-190 | AC96X-190 | 190 | 1.9791 |
| AC96W-192 | AC96X-192 | 192 | 2.0000 |
| AC96W-200 | AC96X-200 | 200 | 2.0833 |
| AC96W-210 | AC96X-210 | 210 | 2.1875 |
| AC96W-220 | AC96X-220 | 220 | 2.2916 |
| AC96W-230 | AC96X-230 | 230 | 2.3958 |
| AC96W-240 | AC96X-240 | 240 | 2.5000 |
| AC96W-250 | AC96X-250 | 250 | 2.6041 |
| AC96W-260 | AC96X-260 | 260 | 2.7083 |
| AC96W-264 | AC96X-264 | 264 | 2.7500 |
| AC96W-270 | AC96X-270 | 270 | 2.8125 |
| AC96W-288 | AC96X-288 | 288 | 3.0000 |
| AC96W-300 | AC96X-300 | 300 | 3.1250 |

HUB MATERIAL: 303 Stainless Steel

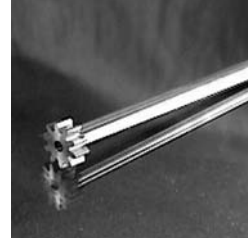
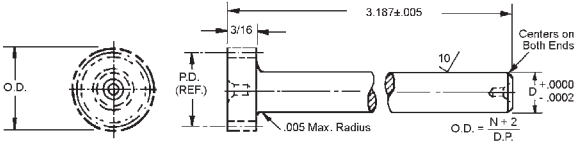
Available on request:

- Other numbers of teeth;
- AGMA Quality 12 and 14 (some dimensions may vary);
- 14-12° pressure angle.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

PINION SHAFTS

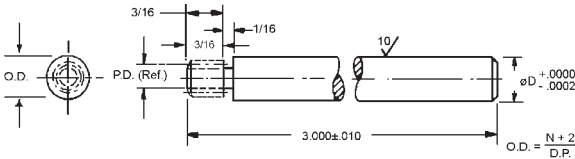
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 96 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS96S2-24H | 96 | 24 | .2500 | .1247 |

Other numbers of teeth available on request.

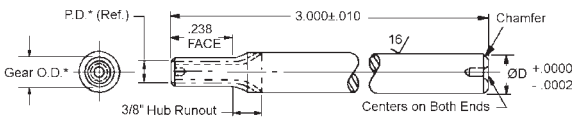
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 96 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|-----------|-------|--------------|------------|-------|
| PS96S2-10 | 96 | 10 | .1042 | .1247 |
| PS96S3-10 | | 10 | .1042 | .1872 |
| PS96S3-12 | | 12 | .1250 | .1872 |
| PS96S3-14 | | 14 | .1458 | .1872 |
| PS96S4-16 | | 16 | .1666 | .2497 |
| PS96S4-18 | | 18 | .1875 | .2497 |
| PS96S4-20 | | 20 | .2083 | .2497 |

Other numbers of teeth available on request.

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 96 | 303 STAINLESS STEEL | 10 | 20° |

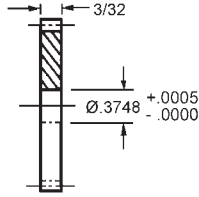
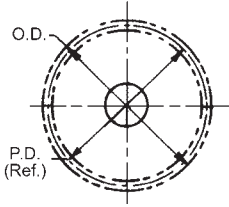


| STOCK NO. | PITCH | NO. OF TEETH | D | ENLARGED | |
|-------------|-------|--------------|-------|----------------|--------------|
| | | | | PITCH DIAMETER | OUTSIDE DIA. |
| B-PS96S3-10 | 96 | 10 | .1872 | .1128 | .133 |
| B-PS96S3-11 | | 11 | | .1220 | .142 |
| B-PS96S3-12 | | 12 | | .1312 | .152 |
| B-PS96S3-13 | | 13 | | .1404 | .161 |
| B-PS96S3-14 | | 14 | | .1496 | .170 |
| B-PS96S3-15 | | 15 | | .1588 | .179 |
| B-PS96S3-16 | 16 | .1680 | .187 | | |
| B-PS96S4-17 | 96 | 17 | .2497 | .1772 | .198 |

Other numbers of teeth available on request.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 120 | HUBLESS | 3/8" | 3/32" | 303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |



Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle
1/16" Face

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|---|--|-----------------|---------------|-----------------|
| F120S2-96 | F120A2-96 | 96 | .8000 | .816 |
| F120S2-108 | F120A2-108 | 108 | .9000 | .916 |
| F120S2-120 | F120A2-120 | 120 | 1.0000 | 1.016 |
| F120S2-132 | F120A2-132 | 132 | 1.1000 | 1.116 |
| F120S2-144 | F120A2-144 | 144 | 1.2000 | 1.216 |
| F120S2-168 | F120A2-168 | 168 | 1.4000 | 1.416 |
| F120S2-180 | F120A2-180 | 180 | 1.5000 | 1.516 |
| F120S2-192 | F120A2-192 | 192 | 1.6000 | 1.616 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 120 | X | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

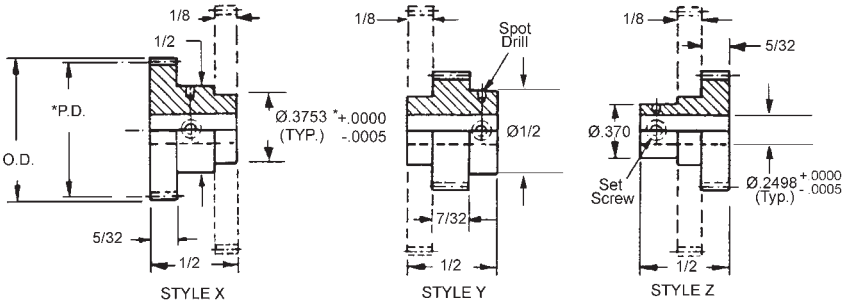
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|-------|--------------|------------|--------------|
| DP120S14-48 | 120 | 48 | .4000 | .417 |
| DP120S14-50 | | 50 | .4166 | .433 |
| DP120S14-60 | | 60 | .5000 | .517 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 120 | Y | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|-------|--------------|------------|--------------|
| DP120S16-48 | 120 | 48 | .4000 | .417 |
| DP120S16-50 | | 50 | .4166 | .433 |
| DP120S16-60 | | 60 | .5000 | .517 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|------|---------------------|--------------|----------------|
| 120 | Y | 1/4" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|-------|--------------|------------|--------------|
| DP120S18-48 | 120 | 48 | .4000 | .417 |
| DP120S18-50 | | 50 | .4166 | .433 |
| DP120S18-60 | | 60 | .5000 | .517 |



*Concentric within .0003
Order hubless gear separately.

CLUSTER GEAR AND HUB

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 120 | X | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

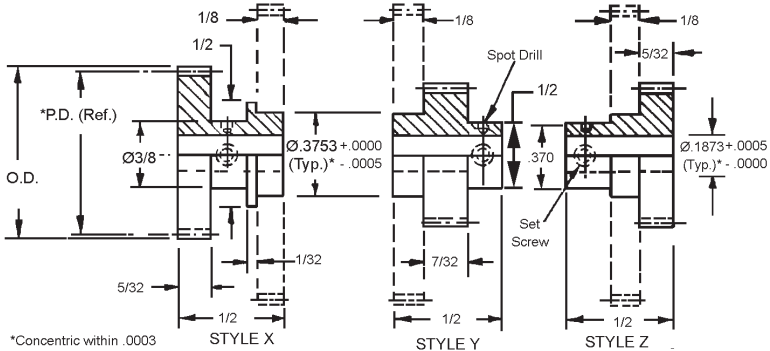
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|------------|-------|--------------|------------|--------------|
| DP120S8-48 | 120 | 48 | .4000 | .417 |
| DP120S8-50 | | 50 | .4166 | .433 |
| DP120S8-54 | | 54 | .4500 | .467 |
| DP120S8-55 | | 55 | .4583 | .475 |
| DP120S8-60 | | 60 | .5000 | .517 |
| DP120S8-80 | | 80 | .6666 | .683 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 120 | Y | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|-------|--------------|------------|--------------|
| DP120S10-48 | 120 | 48 | .4000 | .417 |
| DP120S10-50 | | 50 | .4166 | .433 |
| DP120S10-54 | | 54 | .4500 | .467 |
| DP120S10-55 | | 55 | .4583 | .475 |
| DP120S10-60 | | 60 | .5000 | .517 |
| DP120S10-80 | | 80 | .6666 | .683 |

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------|-------|---------------------|--------------|----------------|
| 120 | Z | 3/16" | 303 STAINLESS STEEL | 10 | 20° |

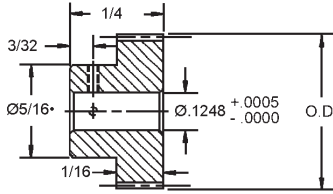
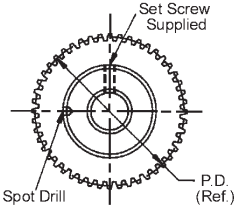
| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------|-------|--------------|------------|--------------|
| DP120S12-48 | 120 | 48 | .4000 | .417 |
| DP120S12-50 | | 50 | .4166 | .433 |
| DP120S12-54 | | 54 | .4500 | .467 |
| DP120S12-55 | | 55 | .4583 | .475 |
| DP120S12-60 | | 60 | .5000 | .517 |
| DP120S12-80 | | 80 | .6666 | .683 |



- Hub runout cuts thru shoulder.
- Available on request: Other numbers of teeth; AGMA quality 12 and 14; 14-1/2° Pressure Angle.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 120 | PIN HUB | 1/8" | 1/16" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



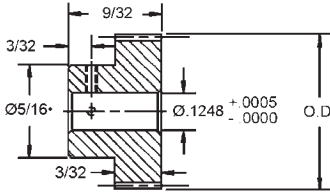
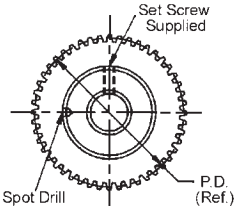
- For 31-40 teeth hub diameter equals .23
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P120S5-32 | P120A5-32 | 32• | .2666 | .283 |
| P120S5-33 | P120A5-33 | 33• | .2750 | .291 |
| P120S5-34 | P120A5-34 | 34• | .2833 | .300 |
| P120S5-36 | P120A5-36 | 36• | .3000 | .316 |
| P120S5-39 | P120A5-39 | 39• | .3250 | .341 |
| P120S5-40 | P120A5-40 | 40• | .3333 | .350 |
| P120S5-42 | P120A5-42 | 42 | .3500 | .366 |
| P120S5-44 | P120A5-44 | 44 | .3666 | .383 |
| P120S5-45 | P120A5-45 | 45 | .3750 | .391 |
| P120S5-48 | P120A5-48 | 48 | .4000 | .416 |
| P120S5-50 | P120A5-50 | 50 | .4166 | .433 |
| P120S5-54 | P120A5-54 | 54 | .4500 | .466 |
| P120S5-60 | P120A5-60 | 60 | .5000 | .516 |
| P120S5-65 | P120A5-65 | 65 | .5416 | .558 |
| P120S5-66 | P120A5-66 | 66 | .5500 | .566 |
| P120S5-70 | P120A5-70 | 70 | .5833 | .600 |
| P120S5-72 | P120A5-72 | 72 | .6000 | .616 |
| P120S5-75 | P120A5-75 | 75 | .6250 | .641 |
| P120S5-78 | P120A5-78 | 78 | .6500 | .666 |
| P120S5-80 | P120A5-80 | 80 | .6666 | .683 |
| P120S5-84 | P120A5-84 | 84 | .7000 | .716 |
| P120S5-90 | P120A5-90 | 90 | .7500 | .766 |
| P120S5-96 | P120A5-96 | 96 | .8000 | .816 |
| P120S5-100 | P120A5-100 | 100 | .8333 | .850 |
| P120S5-102 | P120A5-102 | 102 | .8500 | .866 |
| P120S5-108 | P120A5-108 | 108 | .9000 | .916 |
| P120S5-114 | P120A5-114 | 114 | .9500 | .966 |
| P120S5-120 | P120A5-120 | 120 | 1.0000 | 1.016 |
| P120S5-126 | P120A5-126 | 126 | 1.0500 | 1.066 |
| P120S5-127 | P120A5-127 | 127 | 1.0583 | 1.075 |
| P120S5-130 | P120A5-130 | 130 | 1.0833 | 1.100 |
| P120S5-132 | P120A5-132 | 132 | 1.1000 | 1.116 |
| P120S5-138 | P120A5-138 | 138 | 1.1500 | 1.166 |
| P120S5-140 | P120A5-140 | 140 | 1.1666 | 1.183 |
| P120S5-144 | P120A5-144 | 144 | 1.2000 | 1.216 |
| P120S5-150 | P120A5-150 | 150 | 1.2500 | 1.266 |
| P120S5-156 | P120A5-156 | 156 | 1.3000 | 1.316 |
| P120S5-162 | P120A5-162 | 162 | 1.3500 | 1.366 |
| P120S5-180 | P120A5-180 | 180 | 1.5000 | 1.516 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|-------|---|--------------|----------------|
| 120 | PIN HUB | 1/8" | 3/32" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



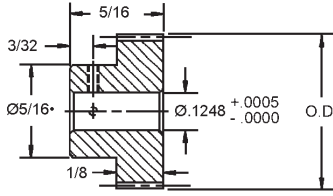
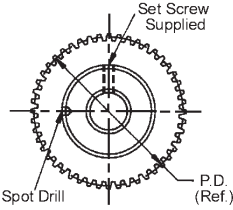
- For 31-40 teeth hub diameter equals .23
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P120S7-35 | P120A7-35 | 35• | .2916 | .308 |
| P120S7-40 | P120A7-40 | 40• | .3333 | .350 |
| P120S7-41 | P120A7-41 | 41 | .3416 | .358 |
| P120S7-45 | P120A7-45 | 45 | .3750 | .391 |
| P120S7-48 | P120A7-48 | 48 | .4000 | .416 |
| P120S7-50 | P120A7-50 | 50 | .4166 | .433 |
| P120S7-52 | P120A7-52 | 52 | .4333 | .450 |
| P120S7-56 | P120A7-56 | 56 | .4666 | .483 |
| P120S7-57 | P120A7-57 | 57 | .4750 | .491 |
| P120S7-59 | P120A7-59 | 59 | .4916 | .508 |
| PI 20S7-60 | P120A7-60 | 60 | .5000 | .516 |
| P120S7-61 | P120A7-61 | 61 | .5083 | .525 |
| P120S7-64 | P120A7-64 | 64 | .5333 | .550 |
| P120S7-65 | P120A7-65 | 65 | .5416 | .558 |
| P120S7-67 | PI 20A7-67 | 67 | .5583 | .575 |
| P120S7-70 | P120A7-70 | 70 | .5833 | .600 |
| P120S7-72 | P120A7-72 | 72 | .6000 | .616 |
| P120S7-73 | P120A7-73 | 73 | .6083 | .625 |
| P120S7-90 | P120A7-90 | 90 | .7500 | .766 |
| P120S7-96 | P120A7-96 | 96 | .8000 | .816 |
| P120S7-100 | P120A7-100 | 100 | .8333 | .850 |
| P120S7-108 | P120A7-108 | 108 | .9000 | .916 |
| P120S7-110 | P120A7-110 | 110 | .9166 | .933 |
| P120S7-120 | P120A7-120 | 120 | 1.0000 | 1.016 |
| P120S7-130 | P120A7-130 | 130 | 1.0833 | 1.100 |
| P120S7-140 | P120A7-140 | 140 | 1.1666 | 1.183 |
| P120S7-144 | P120A7-144 | 144 | 1.2000 | 1.216 |
| P120S7-150 | P120A7-150 | 150 | 1.2500 | 1.266 |
| P120S7-156 | P120A7-156 | 156 | 1.3000 | 1.316 |
| P120S7-160 | P120A7-160 | 160 | 1.3333 | 1.350 |
| P120S7-162 | P120A7-162 | 162 | 1.3500 | 1.366 |
| P120S7-168 | P120A7-168 | 168 | 1.4000 | 1.416 |
| P120S7-170 | P120A7-170 | 170 | 1.4166 | 1.433 |
| P120S7-174 | P120A7-174 | 174 | 1.4500 | 1.466 |
| P120S7-180 | P120A7-180 | 180 | 1.5000 | 1.516 |
| P120S7-185 | P120A7-185 | 185 | 1.5416 | 1.558 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

SPUR GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------|------|------|---|--------------|----------------|
| 120 | PIN HUB | 1/8" | 1/8" | 303 STAINLESS STEEL AND ALUMINUM ANODIZED | 10 | 20° |



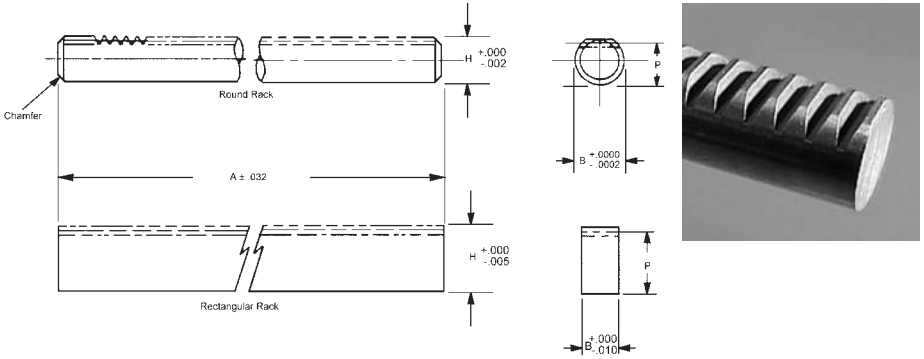
- For 31-40 teeth hub diameter equals .23
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|--------------|
| P120S10-32 | P120A10-32 | 32• | .2666 | .283 |
| P120S10-34 | P120A10-34 | 34• | .2833 | .300 |
| P120S10-36 | P120A10-36 | 36• | .3000 | .316 |
| P120S10-38 | P120A10-38 | 38• | .3166 | .333 |
| P120S10-40 | P120A10-40 | 40• | .3333 | .350 |
| P120S10-41 | P120A10-41 | 41 | .3416 | .358 |
| P120S10-43 | P120A10-43 | 43 | .3583 | .375 |
| P120S10-44 | P120A10-44 | 44 | .3666 | .383 |
| P120S1045 | P120A10-45 | 45 | .3750 | .391 |
| P120S10-47 | P120A10-47 | 47 | .3916 | .408 |
| P120S10-48 | P120A10-48 | 48 | .4000 | .416 |
| P120S10-50 | P120A10-50 | 50 | .4166 | .433 |
| P120S10-55 | PI 20A10-55 | 55 | .4583 | .475 |
| P120S10-59 | P120A10-59 | 59 | .4916 | .508 |
| P120S10-60 | P120A10-60 | 60 | .5000 | .516 |
| P120S10-61 | PI 20A10-61 | 61 | .5083 | .525 |
| P120S10-64 | P120A10-64 | 64 | .5333 | .550 |
| P120S10-65 | P120A10-65 | 65 | .5416 | .558 |
| P120S10-70 | P120A10-70 | 70 | .5833 | .600 |
| P120S10-72 | P120A10-72 | 72 | .6000 | .616 |
| P120S10-75 | P120A10-75 | 75 | .6250 | .641 |
| P120S10-80 | P120A10-80 | 80 | .6666 | .683 |
| P120S10-85 | P120A10-85 | 85 | .7083 | .725 |
| P120S10-90 | P120A10-90 | 90 | .7500 | .766 |
| P120S10-96 | P120A10-96 | 96 | .8000 | .816 |
| P120S10-100 | P120A10-100 | 100 | .8333 | .850 |
| P120S10-110 | P120A10-110 | 110 | .9166 | .933 |
| P120S10-120 | P120A10-120 | 120 | 1.0000 | 1.016 |
| P120S10-130 | P120A10-130 | 130 | 1.0833 | 1.100 |
| P120S10-140 | P120A10-140 | 140 | 1.1666 | 1.183 |
| P120S10-150 | P120A10-150 | 150 | 1.2500 | 1.266 |
| P120S10-160 | P120A10-160 | 160 | 1.3333 | 1.350 |
| P120S10-170 | P120A10-170 | 170 | 1.4166 | 1.433 |
| P120S10-180 | P120A10-180 | 180 | 1.5000 | 1.516 |

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

GEAR RACKS

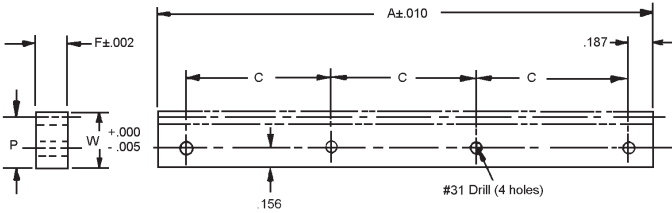
| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------------|--|--------------|----------------|
| 120 | ROUND & RECTANGULAR | 416 SERIES STAINLESS STEEL STRESSED RELIEVED | 10 | 20° |



| STOCK NO. | RACK STYLE | PITCH | P (Ref.) | B | A | H | AGMA QUALITY |
|-----------|-------------|-------|----------|-----------|----|------|--------------|
| R2-21 | ROUND | 120 | .1067 | .1247 | 11 | .115 | 10 |
| R2-17 | RECTANGULAR | 120 | .3467 | .167±.005 | 11 | .355 | 10 |

Available on request: 14 - 1/2° pressure angle, special, modified and custom racks.

| PITCH | STYLE | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|-------------|--|--------------|----------------|
| 120 | RECTANGULAR | 416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

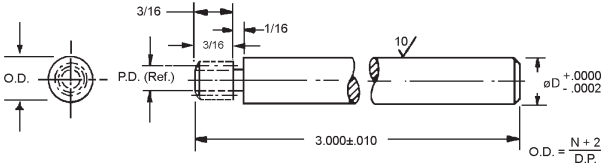


| STOCK NO. | MATERIAL | A (Inch) | P (Ref.) | W | F | C |
|-----------|---------------|----------|----------|------|------|------|
| R4-23 | STAINLESS ST. | 3" | .3467 | .355 | .167 | .875 |
| R4-24 | ALUMINUM | | | | | |

Available on request: special, modified and custom racks.

PINION SHAFTS

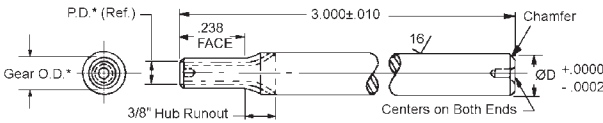
| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 120 | 303 STAINLESS STEEL | 10 | 20° |



| STOCK NO. | PITCH | NO. OF TEETH | PITCH DIA. | D |
|------------|-------|--------------|------------|-------|
| PS120S2-12 | 120 | 12 | .10000 | .1247 |

Other numbers of teeth available on request.

| PITCH | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|---------------------|--------------|-------------|
| 120 | 303 STAINLESS STEEL | 10 | 20° |

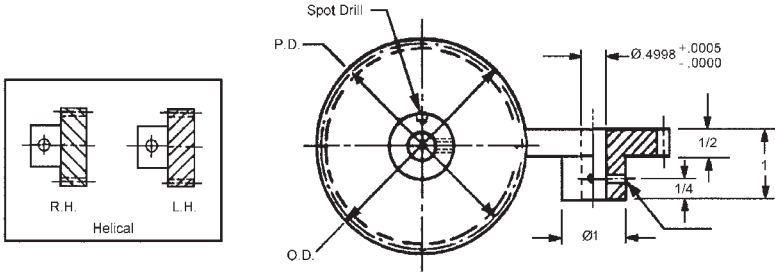


| STOCK NO. | PITCH | NO. OF TEETH | D | ENLARGED | |
|--------------|-------|--------------|-------|----------------|--------------|
| | | | | PITCH DIAMETER | OUTSIDE DIA. |
| B-PS120S2-10 | | 10 | | .0902 | .106 |
| B-PS120S2-12 | 120 | 12 | .1247 | .1050 | .121 |
| B-PS120S3-15 | | 15 | | .1270 | .143 |
| B-PS120S3-17 | 120 | 17 | .1872 | .1418 | .158 |

Other numbers of teeth available on request.

HELICAL GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|------|------------------------|--------------|-------------|-------------|
| 16 | R & L Hand PIN HUB | 1/2" | 303 Stainless Steel | 9 | 20° | 45° |

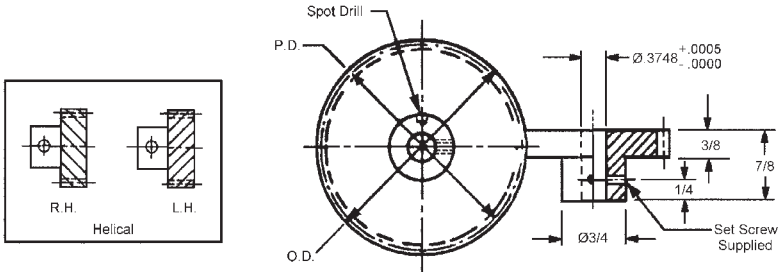


| RIGHT HAND STOCK NO. | LEFT HAND STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|----------------------|---------------------|--------------|--------|-------|
| H16S38-R12 | H16S38-L12 | 12• | 1.0600 | 1.185 |
| H16S38-R16 | H16S38-L16 | 16 | 1.4142 | 1.539 |
| H16S38-R20 | H16S38-L20 | 20 | 1.7677 | 1.892 |
| H16S38-R24 | H16S38-L24 | 24 | 2.1213 | 2.246 |
| H16S38-R32 | H16S38-L32 | 32 | 2.8284 | 2.953 |
| H16S38-R40 | H16S38-L40 | 40 | 3.5355 | 3.660 |
| H16S38-R48 | H16S38-L48 | 48 | 4.2426 | 4.367 |



• For 11-12 teeth hub diameter is .81

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|------|------------------------|--------------|-------------|-------------|
| 20 | R & L Hand PIN HUB | 3/8" | 303 Stainless Steel | 9 | 20° | 45° |



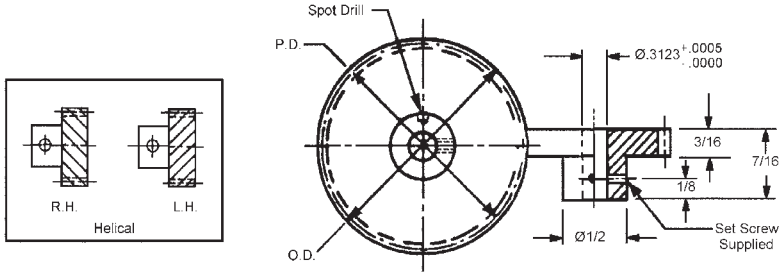
| RIGHT HAND STOCK NO. | LEFT HAND STOCK NO. | NO. OF TEETH | P.D. | O.D. |
|----------------------|---------------------|--------------|--------|-------|
| H20S35-R11 | H20S35-L11 | 11• | .7778 | .877 |
| H20S35-R15 | H20S35-L15 | 15 | 1.0606 | 1.160 |
| H20S35-R20 | H20S35-L20 | 20 | 1.4142 | 1.514 |
| H20S35-R25 | H20S35-L25 | 25 | 1.7677 | 1.867 |
| H20S35-R30 | H20S35-L30 | 30 | 2.1213 | 2.221 |
| H20S35-R40 | H20S35-L40 | 40 | 2.8284 | 2.928 |
| H20S35-R50 | H20S35-L50 | 50 | 3.5355 | 3.635 |
| H20S35-R60 | H20S35-L60 | 60 | 4.2426 | 4.342 |



• For 11-12 teeth hub diameter is .65

HELICAL GEARS

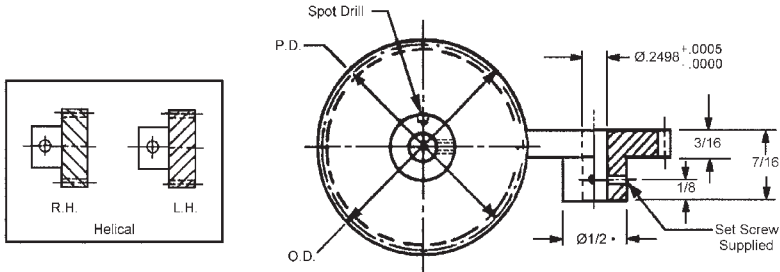
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|-------|--|--------------|-------------|-------------|
| 24 | R & L Hand PIN HUB | 5/16" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° | 45° |



| RIGHT HAND | | LEFT HAND | | NO. OF TEETH | P.D. | O.D. |
|---------------------------|--------------------------|---------------------------|--------------------------|-----------------|--------|-------|
| STAINLESS STOCK NO. | ALUMINUM STOCK NO. | STAINLESS STOCK NO. | ALUMINUM STOCK NO. | | | |
| H24S32-R12 | H24A32-R12 | H24S32-L12 | H24A32-L12 | 12 | .7071 | .790 |
| H24S32-R18 | H24A32-R18 | H24S32-L18 | H24A32-L18 | 18 | 1.0606 | 1.143 |
| H24S32-R24 | H24A32-R24 | H24S32-L24 | H24A32-L24 | 24 | 1.4142 | 1.497 |
| H24S32-R30 | H24A32-R30 | H24S32-L30 | H24A32-L30 | 30 | 1.7677 | 1.850 |
| H24S32-R36 | H24A32-R36 | H24S32-L36 | H24A32-L36 | 36 | 2.1213 | 2.204 |
| H24S32-R48 | H24A32-R48 | H24S32-L48 | H24A32-L48 | 48 | 2.8284 | 2.911 |
| H24S32-R60 | H24A32-R60 | H24S32-L60 | H24A32-L60 | 60 | 3.5355 | 3.618 |
| H24S32-R72 | H24A32-R72 | H24S32-L72 | H24A32-L72 | 72 | 4.2426 | 4.325 |



| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|------|--|--------------|-------------|-------------|
| 32 | R & L Hand PIN HUB | 1/4" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° | 45° |



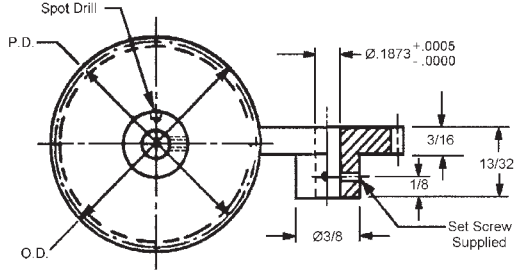
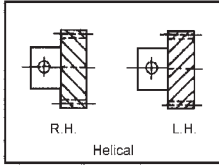
| RIGHT HAND | | LEFT HAND | | NO. OF TEETH | P.D. | O.D. |
|---------------------------|--------------------------|---------------------------|--------------------------|-----------------|--------|-------|
| STAINLESS STOCK NO. | ALUMINUM STOCK NO. | STAINLESS STOCK NO. | ALUMINUM STOCK NO. | | | |
| H32S28-R16 | H32A28-R16 | H32S28-L16 | H32A28-L16 | 16 | .7071 | .769 |
| H32S28-R24 | H32A28-R24 | H32S28-L24 | H32A28-L24 | 24 | 1.0606 | 1.122 |
| H32S28-R32 | H32A28-R32 | H32S28-L32 | H32A28-L32 | 32 | 1.4142 | 1.476 |
| H32S28-R40 | H32A28-R40 | H32S28-L40 | H32A28-L40 | 40 | 1.7677 | 1.829 |
| H32S28-R48 | H32A28-R48 | H32S28-L48 | H32A28-L48 | 48 | 2.1213 | 2.183 |
| H32S28-R64 | H32A28-R64 | H32S28-L64 | H32A28-L64 | 64 | 2.8284 | 2.890 |
| H32S28-R80 | H32A28-R80 | H32S28-L80 | H32A28-L80 | 80 | 3.5355 | 3.597 |
| H32S28-R96 | H32A28-R96 | H32S28-L96 | H32A28-L96 | 96 | 4.2426 | 4.304 |



• For 12-13 teeth hub diameter is .45

HELICAL GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|-------|--|--------------|-------------|-------------|
| 48 | R & L Hand PIN HUB | 3/16" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° | 45° |



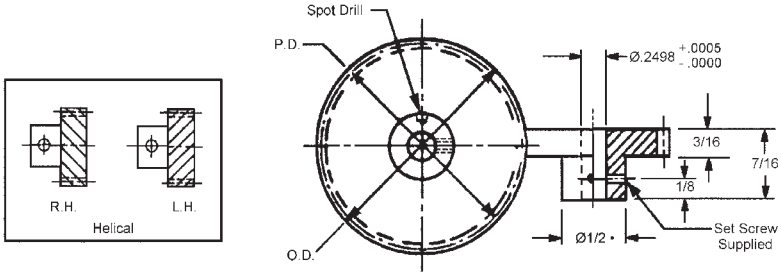
| STAINLESS STEEL | | ALUMINUM | | NO. OF TEETH | P.D. |
|-----------------|--------------|--------------|--------------|-----------------|--------|
| RIGHT HAND | LEFT HAND | RIGHT HAND | LEFT HAND | | |
| STOCK NO. | STOCK NO. | STOCK NO. | STOCK NO. | | |
| H48S21-R20 | H48S21-L20 | H48A21-R20 | H48A21-L20 | 20 | .5892 |
| H48S21-R24 | H48S21-L24 | H48A21-R24 | H48A21-L24 | 24 | .7071 |
| H48S21-R25 | H48S21-L25 | H48A21-R25 | H48A21-L25 | 25 | .7365 |
| H48S21-R30 | H48S21-L30 | H48A21-R30 | H48A21-L30 | 30 | .8838 |
| H48S21-R35 | H48S21-L35 | H48A21-R35 | H48A21-L35 | 35 | 1.0311 |
| H48S21-R36 | H48S21-L36 | H48A21-R36 | H48A21-L36 | 36 | 1.0606 |
| H48S21-R40 | H48S21-L40 | H48A21-R40 | H48A21-L40 | 40 | 1.1785 |
| H48S21-R45 | H48S21-L45 | H48A21-R45 | H48A21-L45 | 45 | 1.3258 |
| H48S21-R48 | H48S21-L48 | H48A21-R48 | H48A21-L48 | 48 | 1.4142 |
| H48S21-R50 | H48S21-L50 | H48A21-R50 | H48A21-L50 | 50 | 1.4731 |
| H48S21-R60 | H48S21-L60 | H48A21-R60 | H48A21-L60 | 60 | 1.7677 |
| H48S21-R70 | H48S21-L70 | H48A21-R70 | H48A21-L70 | 70 | 2.0623 |
| H48S21-R72 | H48S21-L72 | H48A21-R72 | H48A21-L72 | 72 | 2.1213 |
| H48S21-R80 | H48S21-L80 | H48A21-R80 | H48A21-L80 | 80 | 2.3568 |
| H48S21-R90 | H48S21-L90 | H48A21-R90 | H48A21-L90 | 90 | 2.6516 |
| H48S21-R96 | H48S21-L96 | H48A21-R96 | H48A21-L96 | 96 | 2.8282 |
| H48S21-R100 | H48S21-L100 | H48A21-R100 | H48A21-L100 | 100 | 2.9462 |
| H48S21-R120 | H48S21-L120 | H48A21-R120 | H48A21-L120 | 120 | 3.5355 |
| H48S21-R144 | H48S21-L144 | H48A21-R144 | H48A21-L144 | 144 | 4.2426 |



For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

HELICAL GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|------|--|--------------|-------------|-------------|
| 48 | R & L Hand PIN HUB | 1/4" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° | 45° |



| STAINLESS STEEL | | ALUMINUM | | NO. OF TEETH | P.D. |
|-----------------|--------------|--------------|--------------|-----------------|--------|
| RIGHT HAND | LEFT HAND | RIGHT HAND | LEFT HAND | | |
| STOCK NO. | STOCK NO. | STOCK NO. | STOCK NO. | | |
| H48S28-R20 | H48S28-L20 | H48A28-R20 | H48A28-L20 | 20 | .5892 |
| H48S28-R24 | H48S28-L24 | H48A28-R24 | H48A28-L24 | 24 | .7071 |
| H48S28-R25 | H48S28-L25 | H48A28-R25 | H48A28-L25 | 25 | .7365 |
| H48S28-R30 | H48S28-L30 | H48A28-R30 | H48A28-L30 | 30 | .8838 |
| H48S28-R35 | H48S28-L35 | H48A28-R35 | H48A28-L35 | 35 | 1.0311 |
| H48S28-R36 | H48S28-L36 | H48A28-R36 | H48A28-L36 | 36 | 1.0606 |
| H48S28-R40 | H48S28-L40 | H48A28-R40 | H48A28-L40 | 40 | 1.1785 |
| H48S28-R45 | H48S28-L45 | H48A28-R45 | H48A28-L45 | 45 | 1.3258 |
| H48S28-R48 | H48S28-L48 | H48A28-R48 | H48A28-L48 | 48 | 1.4142 |
| H48S28-R50 | H48S28-L50 | H48A28-R50 | H48A28-L50 | 50 | 1.4731 |
| H48S28-R60 | H48S28-L60 | H48A28-R60 | H48A28-L60 | 60 | 1.7677 |
| H48S28-R70 | H48S28-L70 | H48A28-R70 | H48A28-L70 | 70 | 2.0623 |
| H48S28-R72 | H48S28-L72 | H48A28-R72 | H48A28-L72 | 72 | 2.1213 |
| H48S28-R80 | H48S28-L80 | H48A28-R80 | H48A28-L80 | 80 | 2.3568 |
| H48S28-R90 | H48S28-L90 | H48A28-R90 | H48A28-L90 | 90 | 2.6516 |
| H48S28-R96 | H48S28-L96 | H48A28-R96 | H48A28-L96 | 96 | 2.8282 |
| H48S28-R100 | H48S28-L100 | H48A28-R100 | H48A28-L100 | 100 | 2.9462 |
| H48S28-R120 | H48S28-L120 | H48A28-R120 | H48A28-L120 | 120 | 3.5355 |
| H48S28-R144 | H48S28-L144 | H48A28-R144 | H48A28-L144 | 144 | 4.2426 |

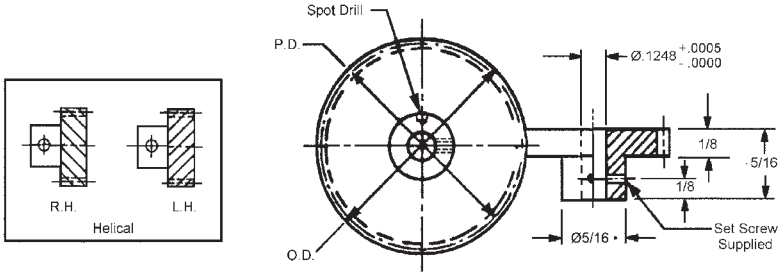


- For 17-19 teeth hub diameter is .44

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

HELICAL GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|------|--|--------------|-------------|-------------|
| 64 | R & L Hand PIN HUB | 1/8" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° | 45° |



| STAINLESS STEEL | | ALUMINUM | | NO. OF TEETH | P.D. |
|-----------------|--------------|--------------|--------------|-----------------|--------|
| RIGHT HAND | LEFT HAND | RIGHT HAND | LEFT HAND | | |
| STOCK NO. | STOCK NO. | STOCK NO. | STOCK NO. | | |
| H64S10-R20 | H64S10-L20 | H64A10-R20 | H64A10-L20 | 20 | .4419 |
| H64S10-R25 | H64S10-L25 | H64A10-R25 | H64A10-L25 | 25 | .5524 |
| H64S10-R30 | H64S10-L30 | H64A10-R30 | H64A10-L30 | 30 | .6629 |
| H64S10-R32 | H64S10-L32 | H64A10-R32 | H64A10-L32 | 32 | .7071 |
| H64S10-R35 | H64S10-L35 | H64A10-R35 | H64A10-L35 | 35 | .7733 |
| H64S10-R40 | H64S10-L40 | H64A10-R40 | H64A10-L40 | 40 | .8838 |
| H64S10-R45 | H64S10-L45 | H64A10-R45 | H64A10-L45 | 45 | .9943 |
| H64S10-R48 | H64S10-L48 | H64A10-R48 | H64A10-L48 | 48 | 1.0606 |
| H64S10-R50 | H64S10-L50 | H64A10-R50 | H64A10-L50 | 50 | 1.1048 |
| H64S10-R60 | H64S10-L60 | H64A10-R60 | H64A10-L60 | 60 | 1.3258 |
| H64S10-R64 | H64S10-L64 | H64A10-R64 | H64A10-L64 | 64 | 1.4142 |
| H64S10-R70 | H64S10-L70 | H64A10-R70 | H64A10-L70 | 70 | 1.5467 |
| H64S10-R80 | H64S10-L80 | H64A10-R80 | H64A10-L80 | 80 | 1.7677 |
| H64S10-R90 | H64S10-L90 | H64A10-R90 | H64A10-L90 | 90 | 1.9886 |
| H64S10-R96 | H64S10-L96 | H64A10-R96 | H64A10-L96 | 96 | 2.1213 |
| H64S10-R100 | H64S10-L100 | H64A10-R100 | H64A10-L100 | 100 | 2.2096 |
| H64S10-R128 | H64S10-L128 | H64A10-R128 | H64A10-L128 | 128 | 2.8284 |
| H64S10-R160 | H64S10-L160 | H64A10-R160 | H64A10-L160 | 160 | 3.5355 |

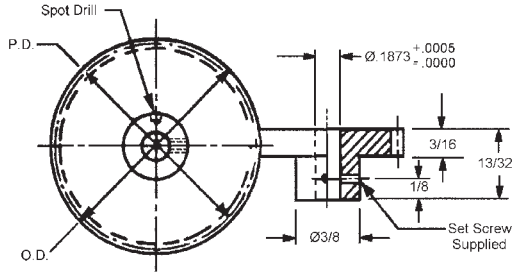
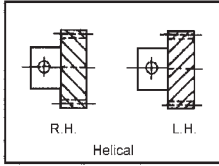


- For 13-15 teeth hub diameter equals .24

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

HELICAL GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE | HELIX ANGLE |
|-------|-----------------------|-------|--|--------------|-------------|-------------|
| 64 | R & L Hand PIN HUB | 3/16" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° | 45° |



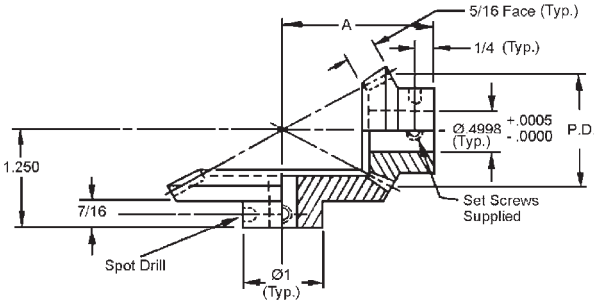
| STAINLESS STEEL | | ALUMINUM | | NO. OF TEETH | P.D. |
|-----------------|--------------|--------------|--------------|-----------------|--------|
| RIGHT HAND | LEFT HAND | RIGHT HAND | LEFT HAND | | |
| STOCK NO. | STOCK NO. | STOCK NO. | STOCK NO. | | |
| H64S21-R20 | H64S21-L20 | H64A21-R20 | H64A21-L20 | 20 | .4419 |
| H64S21-R25 | H64S21-L25 | H64A21-R25 | H64A21-L25 | 25 | .5524 |
| H64S21-R30 | H64S21-L30 | H64A21-R30 | H64A21-L30 | 30 | .6629 |
| H64S21-R32 | H64S21-L32 | H64A21-R32 | H64A21-L32 | 32 | .7071 |
| H64S21-R35 | H64S21-L35 | H64A21-R35 | H64A21-L35 | 35 | .7733 |
| H64S21-R40 | H64S21-L40 | H64A21-R40 | H64A21-L40 | 40 | .8838 |
| H64S21-R45 | H64S21-L45 | H64A21-R45 | H64A21-L45 | 45 | .9943 |
| H64S21-R48 | H64S21-L48 | H64A21-R48 | H64A21-L48 | 48 | 1.0606 |
| H64S21-R50 | H64S21-L50 | H64A21-R50 | H64A21-L50 | 50 | 1.1048 |
| H64S21-R60 | H64S21-L60 | H64A21-R60 | H64A21-L60 | 60 | 1.3258 |
| H64S21-R64 | H64S21-L64 | H64A21-R64 | H64A21-L64 | 64 | 1.4142 |
| H64S21-R70 | H64S21-L70 | H64A21-R70 | H64A21-L70 | 70 | 1.5467 |
| H64S21-R80 | H64S21-L80 | H64A21-R80 | H64A21-L80 | 80 | 1.7677 |
| H64S21-R90 | H64S21-L90 | H64A21-R90 | H64A21-L90 | 90 | 1.9886 |
| H64S21-R96 | H64S21-L96 | H64A21-R96 | H64A21-L96 | 96 | 2.1213 |
| H64S21-R100 | H64S21-L100 | H64A21-R100 | H64A21-L100 | 100 | 2.2096 |
| H64S21-R128 | H64S21-L128 | H64A21-R128 | H64A21-L128 | 128 | 2.8284 |
| H64S21-R160 | H64S21-L160 | H64A21-R160 | H64A21-L160 | 160 | 3.5355 |



For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

MITER & BEVEL GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------------------|------|-------|--|--------------|-------------|
| 16 | Matched Sets PIN HUB | 1/2" | 5/16" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |



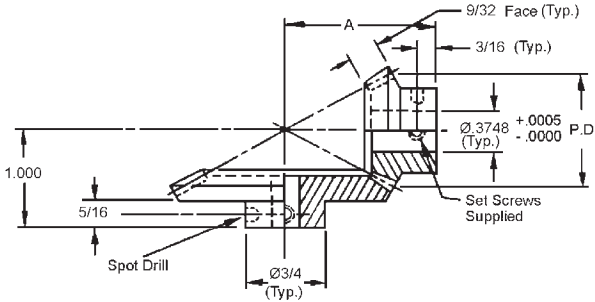
| STOCK NO. | P.D. | RATIO | NO. OF TEETH | A | MATERIAL |
|-----------|--------------------------------|--------|--------------|-------|------------------------------------|
| M16P-1 | 1.250 1.250 | 1 to 1 | 20 20 | 1.250 | STAINLESS STEEL ALUMINUM |
| M16P-1S | 1.250 1.250 | 1 to 1 | 20 20 | 1.250 | STAINLESS STEEL STAINLESS STEEL |
| M16P-1A | 1.250 1.250 | 1 to 1 | 20 20 | 1.250 | ALUMINUM ALUMINUM |
| M16P-2 | 1.250 (PINION) 2.500 (GEAR) | 1 to 2 | 20 40 | 1.875 | STAINLESS STEEL ALUMINUM |
| M16P-3 | 1.250 (PINION) 3.750 (GEAR) | 1 to 3 | 20 60 | 2.500 | STAINLESS STEEL ALUMINUM |
| M16P-1P | 1.250 | 1 to 1 | 20 | 1.250 | STAINLESS STEEL |
| M16P-1G | 1.250 | 1 to 1 | 20 | 1.250 | ALUMINUM |

Note: Gears will mesh at right angles only when used as sets described in chart.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

MITER & BEVEL GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------------------|------|-------|--|--------------|-------------|
| 24 | Matched Sets PIN HUB | 3/8" | 9/32" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |



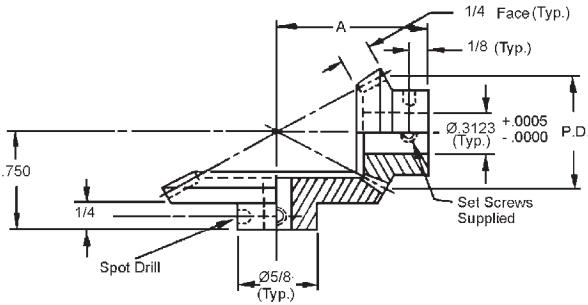
| STOCK NO. | P.D. | RATIO | NO. OF TEETH | A | MATERIAL |
|-----------|--------------------------------|--------|--------------|-------|------------------------------------|
| M24P-1 | 1.000 1.000 | 1 to 1 | 24 24 | 1.000 | STAINLESS STEEL ALUMINUM |
| M24P-1S | 1.000 1.000 | 1 to 1 | 24 24 | 1.000 | STAINLESS STEEL STAINLESS STEEL |
| M24P-1A | 1.000 1.000 | 1 to 1 | 24 24 | 1.000 | ALUMINUM ALUMINUM |
| M24P-2 | 1.000 (PINION) 2.000 (GEAR) | 1 to 2 | 24 48 | 1.500 | STAINLESS STEEL ALUMINUM |
| M24P-3 | 1.000 (PINION) 3.000 (GEAR) | 1 to 3 | 24 72 | 2.000 | STAINLESS STEEL ALUMINUM |
| M24P-4 | 1.000 (PINION) 4.000 (GEAR) | 1 to 4 | 24 96 | 2.500 | ST STEEL ALUMINUM |
| M24P-1P | 1.000 | 1 to 1 | 24 | 1.000 | STAINLESS STEEL |
| M24P-1G | 1.000 | 1 to 1 | 24 | 1.000 | ALUMINUM |

Note: Gears will mesh at right angles only when used as sets described in chart.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

MITER & BEVEL GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------------------|-------|------|--|--------------|-------------|
| 32 | Matched Sets PIN HUB | 5/16" | 1/4" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |



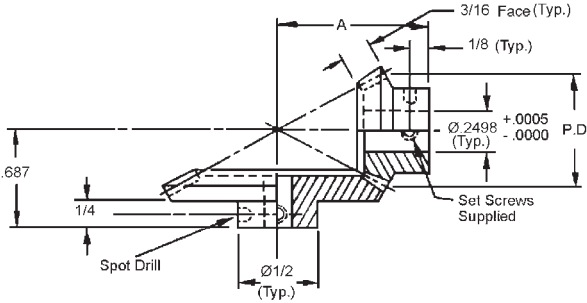
| STOCK NO. | P.D. | RATIO | NO. OF TEETH | A | MATERIAL |
|-----------|-------------------------------|--------|--------------|-------|------------------------------------|
| M32P-1 | .750 .750 | 1 to 1 | 24 24 | .750 | STAINLESS STEEL ALUMINUM |
| M32P-1S | .750 .750 | 1 to 1 | 24 24 | .750 | STAINLESS STEEL STAINLESS STEEL |
| M32P-1A | .750 .750 | 1 to 1 | 24 24 | .750 | ALUMINUM ALUMINUM |
| M32P-2 | .750 (PINION) 1.500 (GEAR) | 1 to 2 | 24 48 | 1.125 | STAINLESS STEEL ALUMINUM |
| M32P-3 | .750 (PINION) 2.250 (GEAR) | 1 to 3 | 24 72 | 1.500 | STAINLESS STEEL ALUMINUM |
| M32P-4 | .750 (PINION) 3.000 (GEAR) | 1 to 4 | 24 96 | 1.875 | STAINLESS STEEL ALUMINUM |
| M32P-1P | .750 | 1 to 1 | 24 | .750 | STAINLESS STEEL |
| M32P-1G | .750 | 1 to 1 | 24 | .750 | ALUMINUM |

Note: Gears will mesh at right angles only when used as sets described in chart.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

MITER & BEVEL GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|------------------------------|------|-------|--|--------------|-------------|
| 48 | Matched Sets PIN OR CLAMP | 1/4" | 3/16" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |

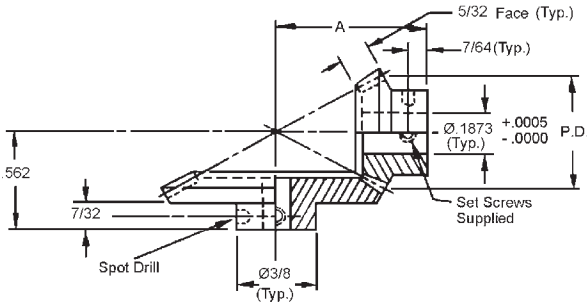


| PIN HUB STOCK NO. | CLAMP STYLE STOCK NO. | P.D. | RATIO | NO. OF TEETH | A | MATERIAL |
|-------------------|-----------------------|-------------------------------|------------|--------------|-------|-----------------------------|
| | | | | | | |
| M48N-1S | M48N-1S-C | .625 .625 | 1 to 1 | 30 30 | .687 | STAINLESS STEEL |
| M48N-1A | M48N-1A-C | .625 .625 | 1 to 1 | 30 30 | .687 | ALUMINUM |
| M48N-5 | M48N-5-C | .625 (PINION) .937 (GEAR) | 1 to 1-1/2 | 30 45 | .812 | STAINLESS STEEL ALUMINUM |
| M48N-5S | M48N-5-CS | .625 (PINION) .937 (GEAR) | 1 to 1-1/2 | 30 45 | .812 | STAINLESS STEEL |
| M48N-5A | M48N-5-CA | .625 (PINION) .937 (GEAR) | 1 to 1-1/2 | 30 45 | .812 | ALUMINUM |
| M48N-2 | M48N-2-C | .625 (PINION) 1.250 (GEAR) | 1 to 2 | 30 60 | .937 | STAINLESS STEEL ALUMINUM |
| M48N-2S | M48N-2S-C | .625 (PINION) 1.250 (GEAR) | 1 to 2 | 30 60 | .937 | STAINLESS STEEL |
| M48N-2A | M48N-2A-C | .625 (PINION) 1.250 (GEAR) | 1 to 2 | 30 60 | .937 | ALUMINUM |
| M48N-3 | M48N-3-C | .625 (PINION) 1.875 (GEAR) | 1 to 3 | 30 90 | 1.250 | STAINLESS STEEL ALUMINUM |
| M48N-3S | M48N-3-CS | .625 (PINION) 1.875 (GEAR) | 1 to 3 | 30 90 | 1.250 | STAINLESS STEEL |
| M48N-3A | M48N-3-CA | .625 (PINION) 1.875 (GEAR) | 1 to 3 | 30 90 | 1.250 | ALUMINUM |
| M48N-4 | M48N-4-C | .625 (PINION) 2.500 (GEAR) | 1 to 4 | 30 120 | 1.531 | STAINLESS STEEL ALUMINUM |
| M48N-4S | M48N-4-CS | .625 (PINION) 2.500 (GEAR) | 1 to 4 | 30 120 | 1.531 | STAINLESS STEEL |
| M48N-4A | M48N-4-CA | .625 (PINION) 2.500 (GEAR) | 1 to 4 | 30 120 | 1.531 | ALUMINUM |
| M48N-1P | M48N-1P-C | .625 | 1 to 1 | 30 | .687 | STAINLESS STEEL |
| M48N-1G | M48N-1G-C | .625 | 1 to 1 | 30 | .687 | ALUMINUM |

Note: Gears will mesh at right angles only when used as sets described in chart.

MITER & BEVEL GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|------------------------------|-------|-------|--|--------------|-------------|
| 64 | Matched Sets PIN OR CLAMP | 3/16" | 5/32" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |



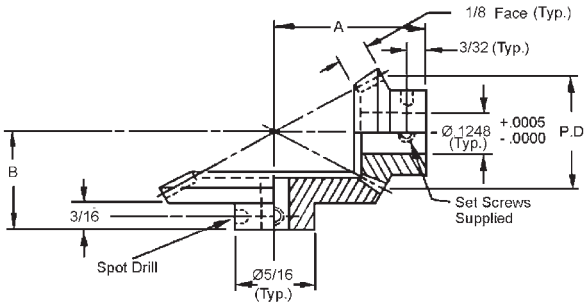
| PIN HUB STOCK NO. | CLAMP STYLE STOCK NO. | P.D. | RATIO | NO. OF TEETH | A | MATERIAL |
|-------------------|-----------------------|-------------------------------|--------|--------------|-------|-----------------------------|
| | | | | | | |
| M64N-1S | M64N-1S-C | .500 .500 | 1 to 1 | 32 32 | .562 | STAINLESS STEEL |
| M64N-1A | M64N-1A-C | .500 .500 | 1 to 1 | 32 32 | .562 | ALUMINUM |
| M64N-2 | M64N-2-C | .500 (PINION) 1.000 (GEAR) | 1 to 2 | 32 64 | .750 | STAINLESS STEEL ALUMINUM |
| M64N-2S | M64N-2-CS | .500 (PINION) 1.000 (GEAR) | 1 to 2 | 32 64 | .750 | STAINLESS STEEL |
| M64N-2A | M64N-2-CA | .500 (PINION) 1.000 (GEAR) | 1 to 2 | 32 64 | .750 | ALUMINUM |
| M64N-3 | M64N-3-C | .500 (PINION) 1.500 (GEAR) | 1 to 3 | 32 96 | 1.000 | STAINLESS STEEL ALUMINUM |
| M64N-3S | M64N-3S-C | .500 (PINION) 1.500 (GEAR) | 1 to 3 | 32 96 | 1.000 | STAINLESS STEEL |
| M64N-3A | M64N-3A-C | .500 (PINION) 1.500 (GEAR) | 1 to 3 | 32 96 | 1.000 | ALUMINUM |
| M64N-4 | M64N-4-C | .500 (PINION) 2.000 (GEAR) | 1 to 4 | 32 128 | 1.250 | STAINLESS STEEL ALUMINUM |
| M64N-4S | M64N-4S-C | .500 (PINION) 2.000 (GEAR) | 1 to 4 | 32 128 | 1.250 | STAINLESS STEEL |
| M64N-4A | M64N-4A-C | .500 (PINION) 2.000 (GEAR) | 1 to 4 | 32 128 | 1.250 | ALUMINUM |
| M64N-1P | M64N-1P-C | .500 | 1 to 1 | 32 | .562 | STAINLESS STEEL |
| M64N-1G | M64N-1G-C | .500 | 1 to 1 | 32 | .562 | ALUMINUM |

Note: Gears will mesh at right angles only when used as sets described in chart.
Clamp hubs are 1/32" longer than pin hubs.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

MITER & BEVEL GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|------------------------------|------|------|--|--------------|-------------|
| 72 | Matched Sets PIN OR CLAMP | 1/8" | 1/8" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |

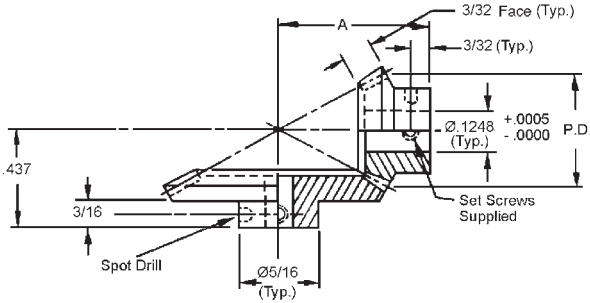


| PIN HUB STOCK NO. | CLAMP STYLE STOCK NO. | P.D. | RATIO | NO. OF TEETH | A | B | MATERIAL |
|-------------------|-----------------------|-------------------------------|------------|--------------|-------|------|------------------------------------|
| M72N-7 | M72N-7-C | .333 .333 | 1 to 1 | 24 24 | .437 | .437 | STAINLESS STEEL ALUMINUM |
| M72N-7S | M72N-7S-C | .333 .333 | 1 to 1 | 24 24 | .437 | .437 | STAINLESS STEEL STAINLESS STEEL |
| M72N-7A | M72N-7A-C | .333 .333 | 1 to 1 | 24 24 | .437 | .437 | ALUMINUM ALUMINUM |
| M72N-1 | M72N-1-C | .500 .500 | 1 to 1 | 36 36 | .531 | .531 | STAINLESS STEEL ALUMINUM |
| M72N-1S | M72N-1S-C | .500 .500 | 1 to 1 | 36 36 | .531 | .531 | STAINLESS STEEL STAINLESS STEEL |
| M72N-1A | M72N-1A-C | .500 .500 | 1 to 1 | 36 36 | .531 | .531 | ALUMINUM ALUMINUM |
| M72N-8 | M72N-8-C | .500 (PINION) .750 (GEAR) | 1 to 1-1/2 | 36 54 | .640 | .531 | STAINLESS STEEL ALUMINUM |
| M72N-2 | M72N-2-C | .500 (PINION) 1.000 (GEAR) | 1 to 2 | 36 72 | .750 | .531 | STAINLESS STEEL ALUMINUM |
| M72N-2S | M72N-2S-C | .500 (PINION) 1.000 (GEAR) | 1 to 2 | 36 72 | .750 | .531 | STAINLESS STEEL STAINLESS STEEL |
| M72N-2A | M72N-2A-C | .500 (PINION) 1.000 (GEAR) | 1 to 2 | 36 72 | .750 | .531 | ALUMINUM ALUMINUM |
| M72N-3 | M72N-3-C | .500 (PINION) 1.500 (GEAR) | 1 to 3 | 36 108 | 1.000 | .531 | STAINLESS STEEL ALUMINUM |
| M72N-3S | M72N-3S-C | .500 (PINION) 1.500 (GEAR) | 1 to 3 | 36 108 | 1.000 | .531 | STAINLESS STEEL STAINLESS STEEL |
| M72N-3A | M72N-3A-C | .500 (PINION) 1.500 (GEAR) | 1 to 3 | 36 108 | 1.000 | .531 | ALUMINUM ALUMINUM |
| M72N-9 | M72N-9-C | .500 (PINION) 2.000 (GEAR) | 1 to 4 | 36 144 | 1.250 | .531 | STAINLESS STEEL ALUMINUM |
| M72N-1P | M72N-1P-C | .500 | 1 to 1 | 36 | .531 | .531 | STAINLESS STEEL |
| M72N-1G | M72N-1G-C | .500 | 1 to 1 | 36 | .531 | .531 | ALUMINUM |

Note: Gears will mesh at right angles only when used as sets described in chart. Clamp hubs are 1/32" longer than pin hubs.

MITER & BEVEL GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------------------|------|-------|--|--------------|-------------|
| 96 | Matched Sets PIN HUB | 1/8" | 3/32" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |



| STOCK NO. | P.D. | RATIO | NO. OF TEETH | A | MATERIAL |
|-----------|-------------------------------|--------|--------------|------|------------------------------------|
| M96P-1 | .375 .375 | 1 to 1 | 36 36 | .437 | STAINLESS STEEL ALUMINUM |
| M96P-1S | .375 .375 | 1 to 1 | 36 36 | .437 | STAINLESS STEEL STAINLESS STEEL |
| M96P-1A | .375 .375 | 1 to 1 | 36 36 | .437 | ALUMINUM ALUMINUM |
| M96P-2 | .375 (PINION) .750 (GEAR) | 1 to 2 | 36 72 | .687 | STAINLESS STEEL ALUMINUM |
| M96P-3 | .375 (PINION) 1.125 (GEAR) | 1 to 3 | 36 108 | .875 | STAINLESS STEEL ALUMINUM |
| M96P-1P | .375 | 1 to 1 | 36 | .437 | STAINLESS STEEL |
| M96P-1G | .375 | 1 to 1 | 36 | .437 | ALUMINUM |

Note: Gears will mesh at right angles only when used as sets described in chart.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

ANTI-BACKLASH MITER GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------------------|------|--|--------------|-------------|
| 48 | Matched Sets PIN HUB | 1/4" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |

| STOCK NO. | PITCH DIA. | D BORE | FACE | T | PITCH | NO. OF TEETH | A | G | H | MATERIAL |
|-----------|--------------|--------|------|-----|-------|--------------|------|-----|-----|------------------------------------|
| M48N-1AB | .625 .625 | .2498 | 3/16 | 1/8 | 48 | 30 30 | .687 | 1/2 | 3/8 | STAINLESS STEEL ALUMINUM |
| M48N-1ABS | .625 .625 | .2498 | 3/16 | 1/8 | 48 | 30 30 | .687 | 1/2 | 3/8 | STAINLESS STEEL STAINLESS STEEL |

Note: Gears will mesh at right angles only when used as sets described in chart.

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------------------|-------|--|--------------|-------------|
| 64 | Matched Sets PIN HUB | 3/16" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |

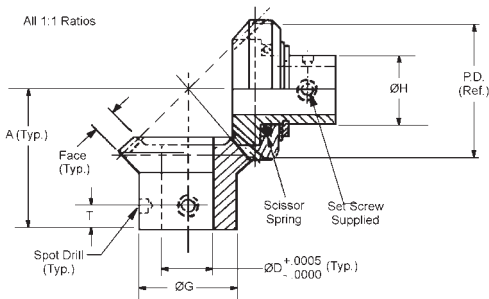
| STOCK NO. | PITCH DIA. | D BORE | FACE | T | PITCH | NO. OF TEETH | A | G | H | MATERIAL |
|-----------|-------------|--------|------|------|-------|--------------|------|-----|-------|------------------------------------|
| M64N-1ABS | .500 500 | .1873 | 5/32 | 7/64 | 64 | 32 32 | .562 | 3/8 | 17/64 | STAINLESS STEEL STAINLESS STEEL |

Note: Gears will mesh at right angles only when used as sets described in chart.

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|-------------------------|------|--|--------------|-------------|
| 72 | Matched Sets PIN HUB | 1/8" | 303 Stainless Steel or 2024-T4 Aluminum Anodized | 10 | 20° |

| STOCK NO. | PITCH DIA. | D BORE | FACE | T | PITCH | NO. OF TEETH | A | G | H | MATERIAL |
|-----------|--------------|--------|------|------|-------|--------------|------|------|-----|------------------------------------|
| M72N-1AB | .500 .500 | .1248 | 1/8 | 3/32 | 72 | 36 36 | .531 | 5/16 | 1/4 | STAINLESS STEEL ALUMINUM |
| M72N-1ABS | .500 .500 | .1248 | 1/8 | 3/32 | 72 | 36 36 | .531 | 5/16 | 1/4 | STAINLESS STEEL STAINLESS STEEL |

Note: Gears will mesh at right angles only when used as sets described in chart.



For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

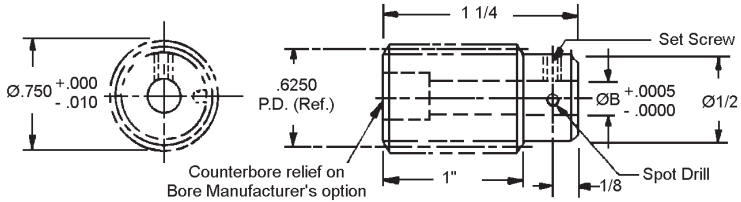
PRECISION WORMS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|----------------------------------|------|------------------------|--------------|------------|
| 16 | SINGLE, DOUBLE OR FOUR THREAD | 1/4" | 303 STAINLESS STEEL | 8 | RIGHT HAND |

| STOCK NO. | B | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|-------|--------|-------|------------|----------------|
| W16S-4S | .2498 | SINGLE | .1963 | 5° - 43' | 14-1/2° |
| W16S-4D | | DOUBLE | .3927 | 11° - 19' | 14-1/2° |
| W16S-4F | | FOUR | .7854 | 21° - 48' | 20° |

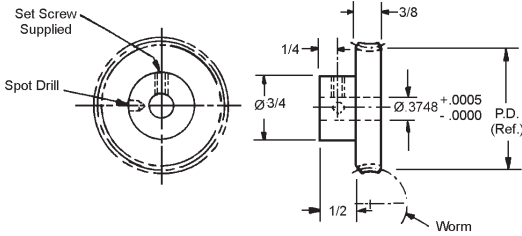
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|----------------------------------|-------|------------------------|--------------|------------|
| 16 | SINGLE, DOUBLE OR FOUR THREAD | 5/16" | 303 STAINLESS STEEL | 8 | RIGHT HAND |

| STOCK NO. | B | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|-------|--------|-------|------------|----------------|
| W16S-5S | .3123 | SINGLE | .1963 | 5° - 43' | 14-1/2° |
| W16S-5D | | DOUBLE | .3927 | 11° - 19' | 14-1/2° |
| W16S-5F | | FOUR | .7854 | 21° - 48' | 20° |



WORM GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|------|------------------------------|--------------|------------|
| 16 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 3/8" | 3/8" | BRONZE QQ-B-637 ALLOY 464 | 8 | RIGHT HAND |

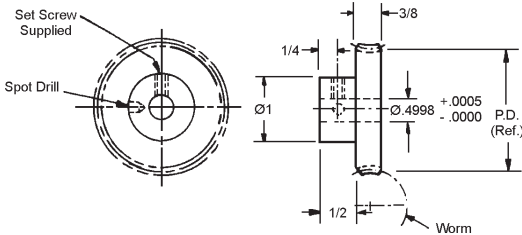


| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|--|---|---|-----------------|---------------|
| CIRCULAR PITCH .1963 HELIX ANGLE 5° - 43' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .3927 HELIX ANGLE 11° - 19' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .7854 HELIX ANGLE 21°-48' PRESSURE ANGLE 20° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W16B35-S20 | W16B35-D20 | W16B35-F20 | 20 | 1.250 |
| W16B35-S30 | W16B35-D30 | W16B35-F30 | 30 | 1.875 |
| W16B35-S40 | W16B35-D40 | W16B35-F40 | 40 | 2.500 |
| W16B35-S50 | W16B35-D50 | W16B35-F50 | 50 | 3.125 |
| W16B35-S60 | W16B35-D60 | W16B35-F60 | 60 | 3.750 |
| W16B35-S80 | W16B35-D80 | W16B35-F80 | 80 | 5.000 |
| W16B35-S100 | W16B35-D100 | W16B35-F100 | 100 | 6.250 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction.

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|------|------------------------------|--------------|------------|
| 16 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/2" | 3/8" | BRONZE QQ-B-637 ALLOY 464 | 8 | RIGHT HAND |



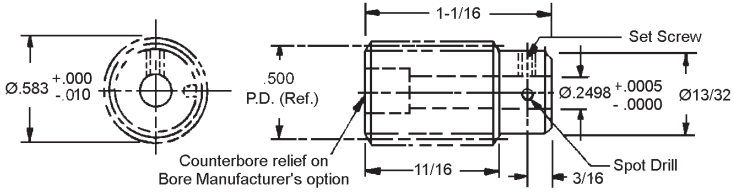
| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|--|---|---|-----------------|---------------|
| CIRCULAR PITCH .1963 HELIX ANGLE 5° - 43' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .3927 HELIX ANGLE 11° - 19' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .7854 HELIX ANGLE 21°-48' PRESSURE ANGLE 20° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W16B37-S20 | W16B37-D20 | W16B37-F20 | 20 | 1.250 |
| W16B37-S30 | W16B37-D30 | W16B37-F30 | 30 | 1.875 |
| W16B37-S40 | W16B37-D40 | W16B37-F40 | 40 | 2.500 |
| W16B37-S50 | W16B37-D50 | W16B37-F50 | 50 | 3.125 |
| W16B37-S60 | W16B37-D60 | W16B37-F60 | 60 | 3.750 |
| W16B37-S80 | W16B37-D80 | W16B37-F80 | 80 | 5.000 |
| W16B37-S100 | W16B37-D100 | W16B37-F100 | 100 | 6.250 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

May be two piece construction.

PRECISION WORMS

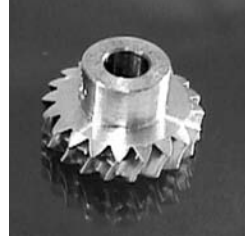
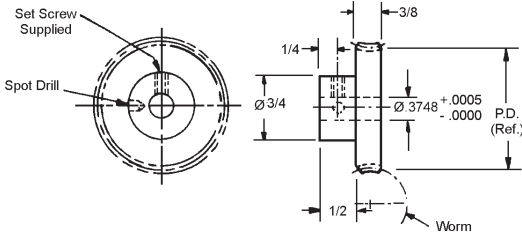
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|----------------------------------|------|------------------------|--------------|------------|
| 24 | SINGLE, DOUBLE OR FOUR THREAD | 1/4" | 303 STAINLESS STEEL | 10 | RIGHT HAND |



| STOCK NO. | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|--------|-------|------------|----------------|
| W24S-4S | SINGLE | .1309 | 4° - 46' | 14-1/2° |
| W24S-4D | DOUBLE | .2618 | 9° - 28' | 20° |
| W24S-4F | FOUR | .5236 | 18° - 26' | 25° |

PRECISION WORM GEARS

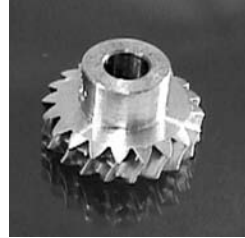
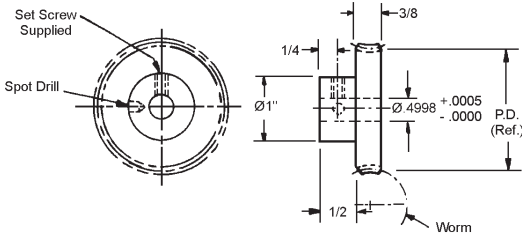
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|------|------------------------------|--------------|------------|
| 24 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 3/8" | 3/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



20 tooth hub diameter does not exceed O.D.

| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. | Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$ |
|--|--|---|--------------|------------|---|
| CIRCULAR PITCH .1309 HELIX ANGLE 4° - 46' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .2518 HELIX ANGLE 9° - 28' PRESSURE ANGLE 20° | CIRCULAR PITCH .5236 HELIX ANGLE 18° - 26' PRESSURE ANGLE 25° | | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | | |
| W24B35-S20 | W24B35-D20 | W24B35-F20 | 20 | .833 | |
| W24B35-S30 | W24B35-D30 | W24B35-F30 | 30 | 1.250 | |
| W24B35-S40 | W24B35-D40 | W24B35-F40 | 40 | 1.667 | |
| W24B35-S50 | W24B35-D50 | W24B35-F50 | 50 | 2.083 | |
| W24B35-S60 | W24B35-D60 | W24B35-F60 | 60 | 2.500 | |
| W24B35-S72 | W24B35-D72 | W24B35-F72 | 72 | 3.000 | |
| W24B35-S80 | W24B35-D80 | W24B35-F80 | 80 | 3.333 | |
| W24B35-S90 | W24B35-D90 | W24B35-F90 | 90 | 3.750 | |
| W24B35-S100 | W24B35-D100 | W24B35-F100 | 100 | 4.167 | |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|------|------------------------------|--------------|------------|
| 24 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/2" | 3/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

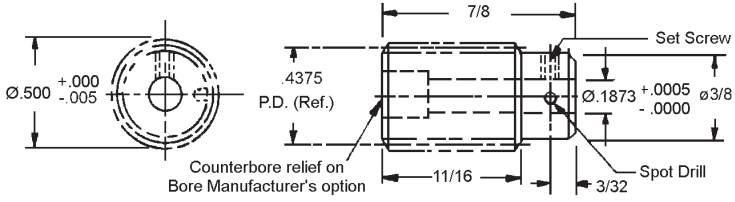


20 tooth hub diameter does not exceed O.D.

| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. | Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$ |
|--|--|---|--------------|------------|---|
| CIRCULAR PITCH .1309 HELIX ANGLE 4° - 46' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .2518 HELIX ANGLE 9° - 28' PRESSURE ANGLE 20° | CIRCULAR PITCH .5236 HELIX ANGLE 18° - 26' PRESSURE ANGLE 25° | | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | | |
| W24B37-S20 | W24B37-D20 | W24B37-F20 | 20 | .833 | |
| W24B37-S30 | W24B37-D30 | W24B37-F30 | 30 | 1.250 | |
| W24B37-S40 | W24B37-D40 | W24B37-F40 | 40 | 1.667 | |
| W24B37-S50 | W24B37-D50 | W24B37-F50 | 50 | 2.083 | |
| W24B37-S60 | W24B37-D60 | W24B37-F60 | 60 | 2.500 | |
| W24B37-S72 | W24B37-D72 | W24B37-F72 | 72 | 3.000 | |
| W24B37-S80 | W24B37-D80 | W24B37-F80 | 80 | 3.333 | |
| W24B37-S90 | W24B37-D90 | W24B37-F90 | 90 | 3.750 | |
| W24B37-S100 | W24B37-D100 | W24B37-F100 | 100 | 4.167 | |

PRECISION WORMS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|----------------------------------|-------|------------------------|--------------|------------|
| 32 | SINGLE, DOUBLE OR FOUR THREAD | 3/16" | 303 STAINLESS STEEL | 10 | RIGHT HAND |

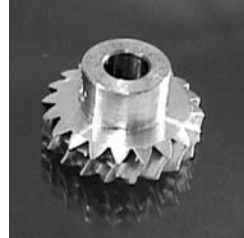
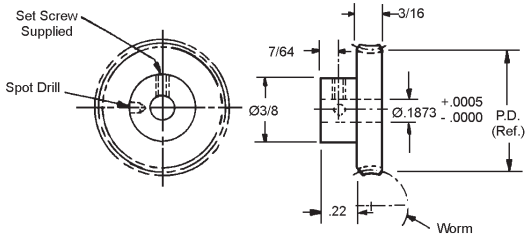


| STOCK NO. | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|--------|-------|------------|----------------|
| W32S-3S | SINGLE | .0982 | 4° - 5' | 14-1/2° |
| W32S-3D | DOUBLE | .1963 | 8° - 8' | 20° |
| W32S-3F | FOUR | .3927 | 15° - 57' | 25° |

AGMA Quality 12 on request.

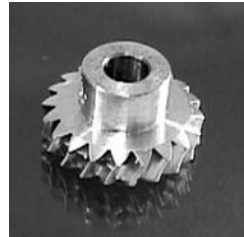
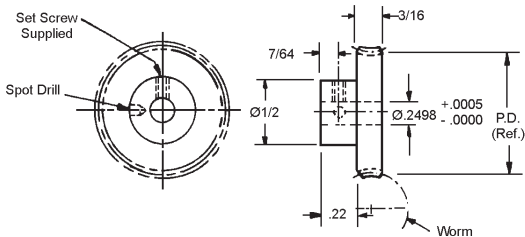
PRECISION WORM GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|-------|-------|------------------------------|--------------|------------|
| 32 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 3/16" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|---|---|------------|
| CIRCULAR PITCH .0982 HELIX ANGLE 4° - 5° PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .1963 HELIX ANGLE 8° - 8° PRESSURE ANGLE 20° | CIRCULAR PITCH .3927 HELIX ANGLE 15° - 57° PRESSURE ANGLE 25° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$ | |
| W32B21-S20 | W32B21-D20 | W32B21-F20 | 20 | .625 |
| W32B21-S30 | W32B21-D30 | W32B21-F30 | 30 | .938 |
| W32B21-S40 | W32B21-D40 | W32B21-F40 | 40 | 1.250 |
| W32B21-S50 | W32B21-D50 | W32B21-F50 | 50 | 1.562 |
| W32B21-S60 | W32B21-D60 | W32B21-F60 | 60 | 1.875 |
| W32B21-S80 | W32B21-D80 | W32B21-F80 | 80 | 2.500 |
| W32B21-S96 | W32B21-D96 | W32B21-F96 | 96 | 3.000 |
| W32B21-S100 | W32B21-D100 | W32B21-F100 | 100 | 3.125 |
| W32B21-S120 | W32B21-D120 | W32B21-F120 | 120 | 3.750 |
| W32B21-S180 | W32B21-D180 | W32B21-F180 | 180 | 5.625 |

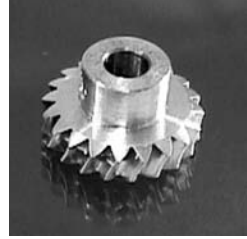
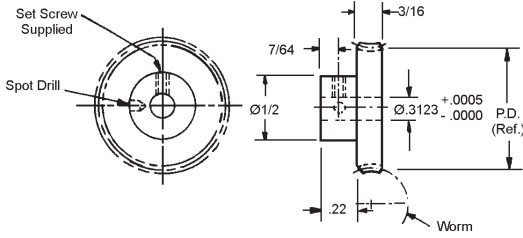
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 32 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/4" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|---|---|------------|
| CIRCULAR PITCH .0982 HELIX ANGLE 4° - 5° PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .1963 HELIX ANGLE 8° - 8° PRESSURE ANGLE 20° | CIRCULAR PITCH .3927 HELIX ANGLE 15° - 57° PRESSURE ANGLE 25° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | Ratio = $\frac{\# \text{ of Teeth}}{\text{Worm Threads}}$ | |
| W32B29-S20 | W32B29-D20 | W32B29-F20 | 20 | .625 |
| W32B29-S30 | W32B29-D30 | W32B29-F30 | 30 | .938 |
| W32B29-S40 | W32B29-D40 | W32B29-F40 | 40 | 1.250 |
| W32B29-S50 | W32B29-D50 | W32B29-F50 | 50 | 1.562 |
| W32B29-S60 | W32B29-D60 | W32B29-F60 | 60 | 1.875 |
| W32B29-S80 | W32B29-D80 | W32B29-F80 | 80 | 2.500 |
| W32B29-S96 | W32B29-D96 | W32B29-F96 | 96 | 3.000 |
| W32B29-S100 | W32B29-D100 | W32B29-F100 | 100 | 3.125 |
| W32B29-S120 | W32B29-D120 | W32B29-F120 | 120 | 3.750 |
| W32B29-S180 | W32B29-D180 | W32B29-F180 | 180 | 5.625 |

PRECISION WORM GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|-------|-------|------------------------------|--------------|------------|
| 32 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 5/16" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



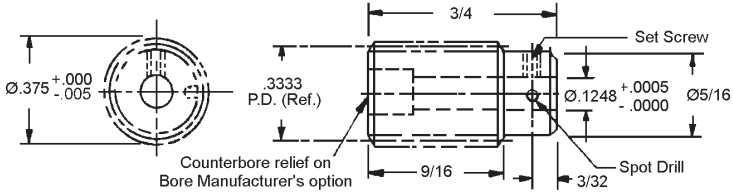
| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|---|-----------------|---------------|
| CIRCULAR PITCH .0982 HELIX ANGLE 4° - 5° PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .1963 HELIX ANGLE 8° - 8° PRESSURE ANGLE 20° | CIRCULAR PITCH .3927 HELIX ANGLE 15° - 57° PRESSURE ANGLE 25° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W32B30-S20 | W32B30-D20 | W32B30-F20 | 20 | .625 |
| W32B30-S30 | W32B30-D30 | W32B30-F30 | 30 | .938 |
| W32B30-S40 | W32B30-D40 | W32B30-F40 | 40 | 1.250 |
| W32B30-S50 | W32B30-D50 | W32B30-F50 | 50 | 1.562 |
| W32B30-S60 | W32B30-D60 | W32B30-F60 | 60 | 1.875 |
| W32B30-S80 | W32B30-D80 | W32B30-F80 | 80 | 2.500 |
| W32B30-S96 | W32B30-D96 | W32B30-F96 | 96 | 3.000 |
| W32B30-S100 | W32B30-D100 | W32B30-F100 | 100 | 3.125 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

PRECISION WORMS

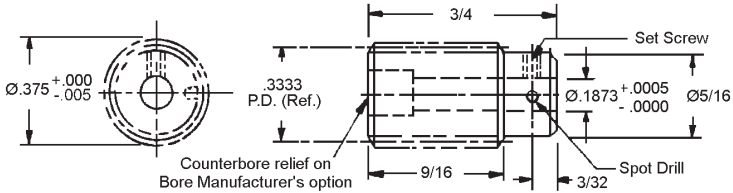
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|-------------------------------|------|---------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD | 1/8" | 303 STAINLESS STEEL | 10 | RIGHT HAND |



| STOCK NO. | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|--------|-------|------------|----------------|
| W48S-2S | SINGLE | .0654 | 3° - 35° | 14-1/2° |
| W48S-2D | DOUBLE | .1309 | 7° - 7° | 20° |
| W48S-2F | FOUR | .2618 | 14° - 2° | 25° |

AGMA Quality 12 and 14 on request.

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|-------------------------------|-------|---------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD | 3/16" | 303 STAINLESS STEEL | 10 | RIGHT HAND |

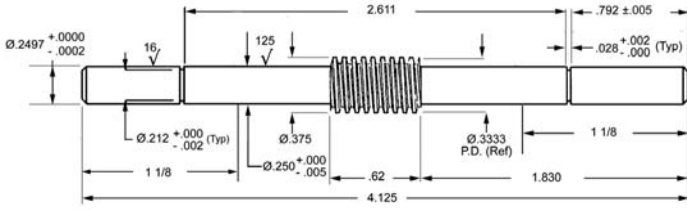


| STOCK NO. | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|--------|-------|------------|----------------|
| W48S-3S | SINGLE | .0654 | 3° - 35° | 14-1/2° |
| W48S-3D | DOUBLE | .1309 | 7° - 7° | 20° |
| W48S-3F | FOUR | .2618 | 14° - 2° | 25° |

AGMA Quality 12 and 14 on request.

PRECISION WORM SHAFT

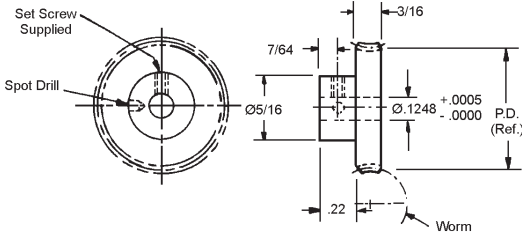
| PITCH | STYLE | SHAFT DIA. | MATERIAL | AGMA QUALITY | TYPE |
|-------|---------------------------|------------|------------------------|--------------|------------|
| 48 | SINGLE START 14.5 P.A. | 1/4" | 303 STAINLESS STEEL | 10 AND 12 | RIGHT HAND |



| STOCK NO. | AGMA QUALITY |
|--------------|--------------|
| WS48S-4S | 10 |
| WS48S-4S-Q12 | 12 |

PRECISION WORM GEARS

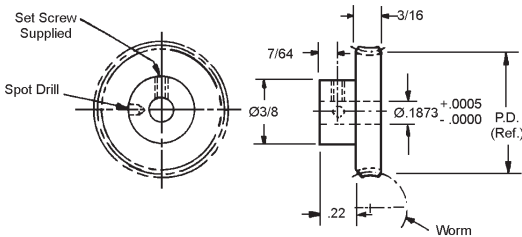
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/8" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|--|---|--|-----------------|---------------|
| CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7' PRESSURE ANGLE 20° | CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2' PRESSURE ANGLE 25° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W48B13-S30 | W48B13-D30 | W48B13-F30 | 30 | .625 |
| W48B13-S40 | W48B13-D40 | W48B13-F40 | 40 | .833 |
| W48B13-S50 | W48B13-D50 | W48B13-F50 | 50 | 1.042 |
| W48B13-S60 | W48B13-D60 | W48B13-F60 | 60 | 1.250 |
| W48B13-S70 | W48B13-D70 | W48B13-F70 | 70 | 1.458 |
| W48B13-S80 | W48B13-D80 | W48B13-F80 | 80 | 1.667 |
| W48B13-S90 | W48B13-D90 | W48B13-F90 | 90 | 1.875 |
| W48B13-S100 | W48B13-D100 | W48B13-F100 | 100 | 2.083 |
| W48B13-S120 | W48B13-D120 | W48B13-F120 | 120 | 2.500 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|-------|-------|------------------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 3/16" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

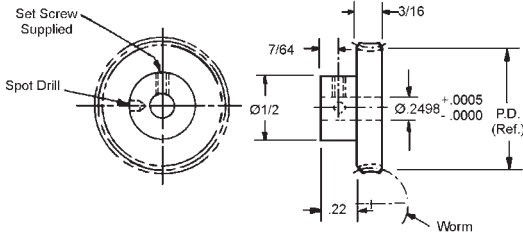


| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|--|---|--|-----------------|---------------|
| CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7' PRESSURE ANGLE 20° | CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2' PRESSURE ANGLE 25° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W48B21-S30 | W48B21-D30 | W48B21-F30 | 30 | .625 |
| W48B21-S40 | W48B21-D40 | W48B21-F40 | 40 | .833 |
| W48B21-S50 | W48B21-D50 | W48B21-F50 | 50 | 1.042 |
| W48B21-S60 | W48B21-D60 | W48B21-F60 | 60 | 1.250 |
| W48B21-S70 | W48B21-D70 | W48B21-F70 | 70 | 1.458 |
| W48B21-S80 | W48B21-D80 | W48B21-F80 | 80 | 1.667 |
| W48B21-S90 | W48B21-D90 | W48B21-F90 | 90 | 1.875 |
| W48B21-S100 | W48B21-D100 | W48B21-F100 | 100 | 2.083 |
| W48B21-S120 | W48B21-D120 | W48B21-F120 | 120 | 2.500 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

PRECISION WORM GEARS

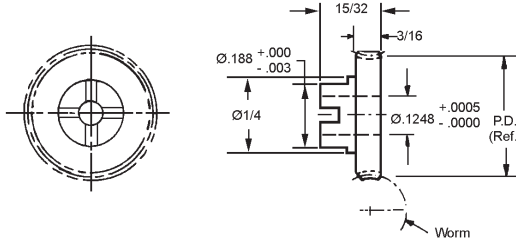
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/4" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|---|---|--|
| CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° STOCK NO. | CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7' PRESSURE ANGLE 20° STOCK NO. | CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2' PRESSURE ANGLE 25° STOCK NO. | | |
| W48B29-S30 W48B29-S40 W48B29-S50 W48B29-S60 W48B29-S70 W48B29-S80 W48B29-S90 W48B29-S100 W48B29-S120 W48B29-S180 | W48B29-D30 W48B29-D40 W48B29-D50 W48B29-D60 W48B29-D70 W48B29-D80 W48B29-D90 W48B29-D100 W48B29-D120 W48B29-D180 | W48B29-F30 W48B29-F40 W48B29-F50 W48B29-F60 W48B29-F70 W48B29-F80 W48B29-F90 W48B29-F100 W48B29-F120 W48B29-F180 | 30 40 50 60 70 80 90 100 120 180 | .625 .833 1.042 1.250 1.458 1.667 1.875 2.083 2.500 3.750 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/8" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

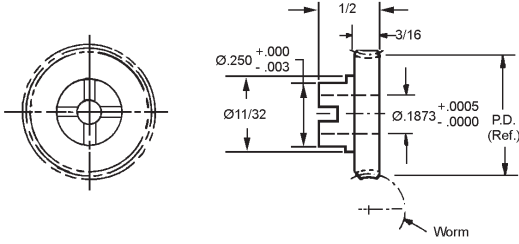


| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|--|--|--|--|---|
| CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° STOCK NO. | CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7' PRESSURE ANGLE 20° STOCK NO. | CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2' PRESSURE ANGLE 25° STOCK NO. | | |
| W48B13-S30-C W48B13-S40-C W48B13-S50-C W48B13-S60-C W48B13-S70-C W48B13-S80-C W48B13-S90-C W48B13-S100-C W48B13-S120-C | W48B13-D30-C W48B13-D40-C W48B13-D50-C W48B13-D60-C W48B13-D70-C W48B13-D80-C W48B13-D90-C W48B13-D100-C W48B13-D120-C | W48B13-F30-C W48B13-F40-C W48B13-F50-C W48B13-F60-C W48B13-F70-C W48B13-F80-C W48B13-F90-C W48B13-F100-C W48B13-F120-C | 30 40 50 60 70 80 90 100 120 | .625 .833 1.042 1.250 1.458 1.667 1.875 2.083 2.500 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

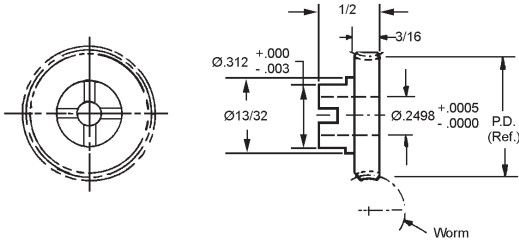
PRECISION WORM GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|-------|-------|------------------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD CLAMP STYLE | 3/16" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|--|---|--|--|---------------|
| CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35° PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7° PRESSURE ANGLE 20° | CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2° PRESSURE ANGLE 25° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$ | |
| W48B21-S30-C | W48B21-D30-C | W48B21-F30-C | 30 | .625 |
| W48B21-S40-C | W48B21-D40-C | W48B21-F40-C | 40 | .833 |
| W48B21-S50-C | W48B21-D50-C | W48B21-F50-C | 50 | 1.042 |
| W48B21-S60-C | W48B21-D60-C | W48B21-F60-C | 60 | 1.250 |
| W48B21-S70-C | W48B21-D70-C | W48B21-F70-C | 70 | 1.458 |
| W48B21-S80-C | W48B21-D80-C | W48B21-F80-C | 80 | 1.667 |
| W48B21-S90-C | W48B21-D90-C | W48B21-F90-C | 90 | 1.875 |
| W48B21-S100-C | W48B21-D100-C | W48B21-F100-C | 100 | 2.083 |
| W48B21-S120-C | W48B21-D120-C | W48B21-F120-C | 120 | 2.500 |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 48 | SINGLE, DOUBLE OR FOUR THREAD CLAMP STYLE | 1/4" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|--|---|--|--|---------------|
| CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35° PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7° PRESSURE ANGLE 20° | CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2° PRESSURE ANGLE 25° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$ | |
| W48B29-S30-C | W48B29-D30-C | W48B29-F30-C | 30 | .625 |
| W48B29-S40-C | W48B29-D40-C | W48B29-F40-C | 40 | .833 |
| W48B29-S50-C | W48B29-D50-C | W48B29-F50-C | 50 | 1.042 |
| W48B29-S60-C | W48B29-D60-C | W48B29-F60-C | 60 | 1.250 |
| W48B29-S70-C | W48B29-D70-C | W48B29-F70-C | 70 | 1.458 |
| W48B29-S80-C | W48B29-D80-C | W48B29-F80-C | 80 | 1.667 |
| W48B29-S90-C | W48B29-D90-C | W48B29-F90-C | 90 | 1.875 |
| W48B29-S100-C | W48B29-D100-C | W48B29-F100-C | 100 | 2.083 |
| W48B29-S120-C | W48B29-D120-C | W48B29-F120-C | 120 | 2.500 |
| W48B29-S180-C | W48B29-D180-C | W48B29-F180-C | 180 | 3.750 |

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 48 | SINGLE THREAD PIN HUB | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS13-S40 | 40 | .833 |
| AW48BS13-S48 | 48 | 1.000 |
| AW48BS13-S50 | 50 | 1.042 |
| AW48BS13-S56 | 56 | 1.167 |
| AW48BS13-S60 | 60 | 1.250 |
| AW48BC13-S70 | 70 | 1.458 |
| AW48BC13-S72 | 72 | 1.500 |
| AW48BC13-S80 | 80 | 1.667 |
| AW48BC13-S90 | 90 | 1.875 |
| AW48BC13-S96 | 96 | 2.000 |
| AW48BC13-S100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm #
W48S-2S
OR
W48S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 48 | DOUBLE THREAD PIN HUB | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS13-D40 | 40 | .833 |
| AW48BS13-D48 | 48 | 1.000 |
| AW48BS13-D50 | 50 | 1.042 |
| AW48BS13-D56 | 56 | 1.167 |
| AW48BS13-D60 | 60 | 1.250 |
| AW48BC13-D70 | 70 | 1.458 |
| AW48BC13-D72 | 72 | 1.500 |
| AW48BC13-D80 | 80 | 1.667 |
| AW48BC13-D90 | 90 | 1.875 |
| AW48BC13-D96 | 96 | 2.000 |
| AW48BC13-D100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 20°

Runs with worm #
W48S-2D
OR
W48S-3D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------|------|------------------------------|--------------|------------|
| 48 | FOUR THREAD PIN HUB | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS13-F40 | 40 | .833 |
| AW48BS13-F48 | 48 | 1.000 |
| AW48BS13-F50 | 50 | 1.042 |
| AW48BS13-F56 | 56 | 1.167 |
| AW48BS13-F60 | 60 | 1.250 |
| AW48BC13-F70 | 70 | 1.458 |
| AW48BC13-F72 | 72 | 1.500 |
| AW48BC13-F80 | 80 | 1.667 |
| AW48BC13-F90 | 90 | 1.875 |
| AW48BC13-F96 | 96 | 2.000 |
| AW48BC13-F100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

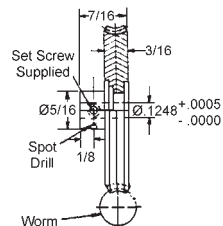
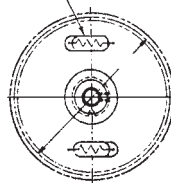
Pressure Angle 25°

Runs with worm #
W48S-2F
OR
W48S-3F



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

Scissor Spring
Or Coil Hub



ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|-------|------------------------------|--------------|------------|
| 48 | SINGLE THREAD PIN HUB | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS21-S40 | 40 | .833 |
| AW48BS21-S48 | 48 | 1.000 |
| AW48BS21-S50 | 50 | 1.042 |
| AW48BS21-S56 | 56 | 1.167 |
| AW48BS21-S60 | 60 | 1.250 |
| AW48BC21-S70 | 70 | 1.458 |
| AW48BC21-S72 | 72 | 1.500 |
| AW48BC21-S80 | 80 | 1.667 |
| AW48BC21-S90 | 90 | 1.875 |
| AW48BC21-S96 | 96 | 2.000 |
| AW48BC21-S100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm #

W48S-2S

OR

W48S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|-------|------------------------------|--------------|------------|
| 48 | DOUBLE THREAD PIN HUB | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS21--D40 | 40 | .833 |
| AW48BS21--D48 | 48 | 1.000 |
| AW48BS21--D50 | 50 | 1.042 |
| AW48BS21--D56 | 56 | 1.167 |
| AW48BS21--D60 | 60 | 1.250 |
| AW48BC21-D70 | 70 | 1.458 |
| AW48BC21-D72 | 72 | 1.500 |
| AW48BC21-D80 | 80 | 1.667 |
| AW48BC21-D90 | 90 | 1.875 |
| AW48BC21-D96 | 96 | 2.000 |
| AW48BC21-D100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 20°

Runs with worm #

W48S-2D

OR

W48S-3D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------|-------|------------------------------|--------------|------------|
| 48 | FOUR THREAD PIN HUB | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS21-F40 | 40 | .833 |
| AW48BS21-F48 | 48 | 1.000 |
| AW48BS21-F50 | 50 | 1.042 |
| AW48BS21-F56 | 56 | 1.167 |
| AW48BS21-F60 | 60 | 1.250 |
| AW48BC21-F70 | 70 | 1.458 |
| AW48BC21-F72 | 72 | 1.500 |
| AW48BC21-F80 | 80 | 1.667 |
| AW48BC21-F90 | 90 | 1.875 |
| AW48BC21-F96 | 96 | 2.000 |
| AW48BC21-F100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 25°

Runs with worm #

W48S-2F

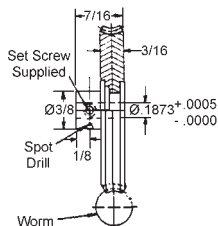
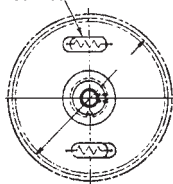
OR

W48S-3F



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

Scissor Spring
Or Coil Hub



ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 48 | SINGLE THREAD PIN HUB | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS29-S40 | 40 | .833 |
| AW48BS29-S48 | 48 | 1.000 |
| AW48BS29-S50 | 50 | 1.042 |
| AW48BS29-S56 | 56 | 1.167 |
| AW48BS29-S60 | 60 | 1.250 |
| AW48BC29-S70 | 70 | 1.458 |
| AW48BC29-S72 | 72 | 1.500 |
| AW48BC29-S80 | 80 | 1.667 |
| AW48BC29-S90 | 90 | 1.875 |
| AW48BC29-S96 | 96 | 2.000 |
| AW48BC29-S100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm #
W48S-2S
OR
W48S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 48 | DOUBLE THREAD PIN HUB | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS29-D40 | 40 | .833 |
| AW48BS29-D48 | 48 | 1.000 |
| AW48BS29-D50 | 50 | 1.042 |
| AW48BS29-D56 | 56 | 1.167 |
| AW48BS29-D60 | 60 | 1.250 |
| AW48BC29-D70 | 70 | 1.458 |
| AW48BC29-D72 | 72 | 1.500 |
| AW48BC29-D80 | 80 | 1.667 |
| AW48BC29-D90 | 90 | 1.875 |
| AW48BC29-D96 | 96 | 2.000 |
| AW48BC29-D100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 20°

Runs with worm #
W48S-2D
OR
W48S-3D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------|------|------------------------------|--------------|------------|
| 48 | FOUR THREAD PIN HUB | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW48BS29-F40 | 40 | .833 |
| AW48BS29-F48 | 48 | 1.000 |
| AW48BS29-F50 | 50 | 1.042 |
| AW48BS29-F56 | 56 | 1.167 |
| AW48BS29-F60 | 60 | 1.250 |
| AW48BC29-F70 | 70 | 1.458 |
| AW48BC29-F72 | 72 | 1.500 |
| AW48BC29-F80 | 80 | 1.667 |
| AW48BC29-F90 | 90 | 1.875 |
| AW48BC29-F96 | 96 | 2.000 |
| AW48BC29-F100 | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

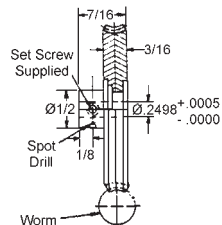
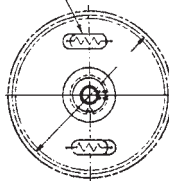
Pressure Angle 25°

Runs with worm #
W48S-2F
OR
W48S-3F



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

Scissor Spring
Or Coil Hub



ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---------------------------|------|---------------------------|--------------|------------|
| 48 | SINGLE THREAD CLAMP STYLE | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS13-S40-C | 40 | .833 |
| AW48BS13-S48-C | 48 | 1.000 |
| AW48BS13-S50-C | 50 | 1.042 |
| AW48BS13-S56-C | 56 | 1.167 |
| AW48BS13-S60-C | 60 | 1.250 |
| AW48BC13-S70-C | 70 | 1.458 |
| AW48BC13-S72-C | 72 | 1.500 |
| AW48BC13-S80-C | 80 | 1.667 |
| AW48BC13-S90-C | 90 | 1.875 |
| AW48BC13-S96-C | 96 | 2.000 |
| AW48BC13-S100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm #

W48S-2S

OR

W48S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---------------------------|------|---------------------------|--------------|------------|
| 48 | DOUBLE THREAD CLAMP STYLE | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS13-D40-C | 40 | .833 |
| AW48BS13-D48-C | 48 | 1.000 |
| AW48BS13-D50-C | 50 | 1.042 |
| AW48BS13-D56-C | 56 | 1.167 |
| AW48BS13-D60-C | 60 | 1.250 |
| AW48BC13-D70-C | 70 | 1.458 |
| AW48BC13-D72-C | 72 | 1.500 |
| AW48BC13-D80-C | 80 | 1.667 |
| AW48BC13-D90-C | 90 | 1.875 |
| AW48BC13-D96-C | 96 | 2.000 |
| AW48BC13-D100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 20°

Runs with worm #

W48S-2D

OR

W48S-3D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|-------------------------|------|---------------------------|--------------|------------|
| 48 | FOUR THREAD CLAMP STYLE | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS13-F40-C | 40 | .833 |
| AW48BS13-F48-C | 48 | 1.000 |
| AW48BS13-F50-C | 50 | 1.042 |
| AW48BS13-F56-C | 56 | 1.167 |
| AW48BS13-F60-C | 60 | 1.250 |
| AW48BC13-F70-C | 70 | 1.458 |
| AW48BC13-F72-C | 72 | 1.500 |
| AW48BC13-F80-C | 80 | 1.667 |
| AW48BC13-F90-C | 90 | 1.875 |
| AW48BC13-F96-C | 96 | 2.000 |
| AW48BC13-F100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

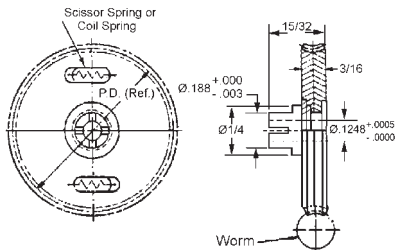
Pressure Angle 25°

Runs with worm #

W48S-2F

OR

W48S-3F



Hub Material: 303 Stainless Steel

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------------|-------|------------------------------|--------------|------------|
| 48 | SINGLE THREAD CLAMP STYLE | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS21-S40-C | 40 | .833 |
| AW48BS21-S48-C | 48 | 1.000 |
| AW48BS21-S50-C | 50 | 1.042 |
| AW48BS21-S56-C | 56 | 1.167 |
| AW48BS21-S60-C | 60 | 1.250 |
| AW48BC21-S70-C | 70 | 1.458 |
| AW48BC21-S72-C | 72 | 1.500 |
| AW48BC21-S80-C | 80 | 1.667 |
| AW48BC21-S90-C | 90 | 1.875 |
| AW48BC21-S96-C | 96 | 2.000 |
| AW48BC21-S100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm #
W48S-2S
OR
W48S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------------|-------|------------------------------|--------------|------------|
| 48 | DOUBLE THREAD CLAMP STYLE | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS21-D40-C | 40 | .833 |
| AW48BS21-D48-C | 48 | 1.000 |
| AW48BS21-D50-C | 50 | 1.042 |
| AW48BS21-D56-C | 56 | 1.167 |
| AW48BS21-D60-C | 60 | 1.250 |
| AW48BC21-D70-C | 70 | 1.458 |
| AW48BC21-D72-C | 72 | 1.500 |
| AW48BC21-D80-C | 80 | 1.667 |
| AW48BC21-D90-C | 90 | 1.875 |
| AW48BC21-D96-C | 96 | 2.000 |
| AW48BC21-D100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 20°

Runs with worm #
W48S-2D
OR
W48S-3D

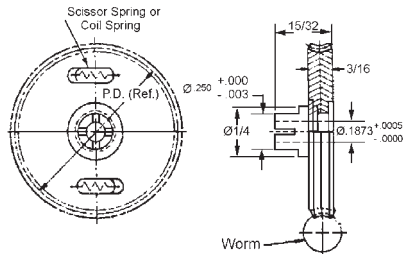
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|----------------------------|-------|------------------------------|--------------|------------|
| 48 | FOUR THREAD CLAMP STYLE | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS21-F40-C | 40 | .833 |
| AW48BS21-F48-C | 48 | 1.000 |
| AW48BS21-F50-C | 50 | 1.042 |
| AW48BS21-F56-C | 56 | 1.167 |
| AW48BS21-F60-C | 60 | 1.250 |
| AW48BC21-F70-C | 70 | 1.458 |
| AW48BC21-F72-C | 72 | 1.500 |
| AW48BC21-F80-C | 80 | 1.667 |
| AW48BC21-F90-C | 90 | 1.875 |
| AW48BC21-F96-C | 96 | 2.000 |
| AW48BC21-F100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 25°

Runs with worm #
W48S-2F
OR
W48S-3F



Hub Material: 303 Stainless Steel

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---------------------------|------|------------------------------|--------------|------------|
| 48 | SINGLE THREAD CLAMP STYLE | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS29-S40-C | 40 | .833 |
| AW48BS29-S48-C | 48 | 1.000 |
| AW48BS29-S50-C | 50 | 1.042 |
| AW48BS29-S56-C | 56 | 1.167 |
| AW48BS29-S60-C | 60 | 1.250 |
| AW48BC29-S70-C | 70 | 1.458 |
| AW48BC29-S72-C | 72 | 1.500 |
| AW48BC29-S80-C | 80 | 1.667 |
| AW48BC29-S90-C | 90 | 1.875 |
| AW48BC29-S96-C | 96 | 2.000 |
| AW48BC29-S100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°

Runs with worm #

W48S-2S

OR

W48S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---------------------------|------|------------------------------|--------------|------------|
| 48 | DOUBLE THREAD CLAMP STYLE | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS29-D40-C | 40 | .833 |
| AW48BS29-D48-C | 48 | 1.000 |
| AW48BS29-D50-C | 50 | 1.042 |
| AW48BS29-D56-C | 56 | 1.167 |
| AW48BS29-D60-C | 60 | 1.250 |
| AW48BC29-D70-C | 70 | 1.458 |
| AW48BC29-D72-C | 72 | 1.500 |
| AW48BC29-D80-C | 80 | 1.667 |
| AW48BC29-D90-C | 90 | 1.875 |
| AW48BC29-D96-C | 96 | 2.000 |
| AW48BC29-D100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 20°

Runs with worm #

W48S-2D

OR

W48S-3D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|-------------------------|------|------------------------------|--------------|------------|
| 48 | FOUR THREAD CLAMP STYLE | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW48BS29-F40-C | 40 | .833 |
| AW48BS29-F48-C | 48 | 1.000 |
| AW48BS29-F50-C | 50 | 1.042 |
| AW48BS29-F56-C | 56 | 1.167 |
| AW48BS29-F60-C | 60 | 1.250 |
| AW48BC29-F70-C | 70 | 1.458 |
| AW48BC29-F72-C | 72 | 1.500 |
| AW48BC29-F80-C | 80 | 1.667 |
| AW48BC29-F90-C | 90 | 1.875 |
| AW48BC29-F96-C | 96 | 2.000 |
| AW48BC29-F100-C | 100 | 2.083 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

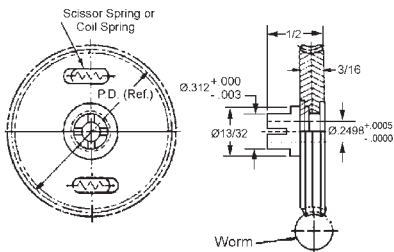
Pressure Angle 25°

Runs with worm #

W48S-2F

OR

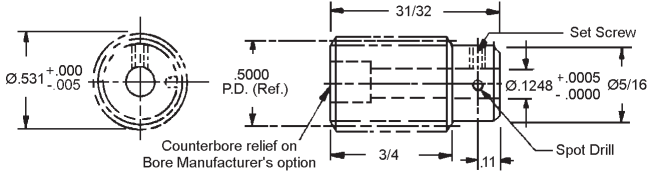
W48S-3F



Hub Material: 303 Stainless Steel

PRECISION WORMS

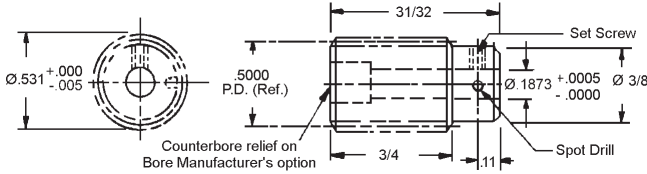
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------------------------|------|------------------------|--------------|-------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD | 1/8" | 303 STAINLESS STEEL | 10 | RIGHT HAND |



| STOCK NO. | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|--------|--------|------------|----------------|
| W64S-2S | SINGLE | .04908 | 1° - 47' | 14-1/2° |
| W64S-2D | DOUBLE | .09817 | 3° - 35' | |
| W64S-2F | FOUR | .19635 | 7° - 8' | |

Counterbore relief on bore manufacturer's option.

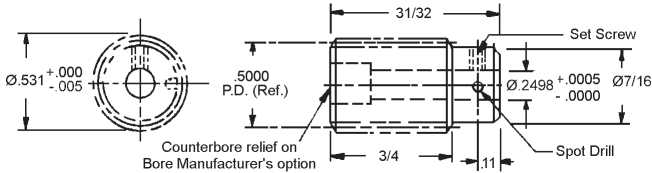
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------------------------|-------|------------------------|--------------|-------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD | 3/16" | 303 STAINLESS STEEL | 10 | RIGHT HAND |



| STOCK NO. | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|--------|--------|------------|----------------|
| W64S-3S | SINGLE | .04908 | 1° - 47' | 14-1/2° |
| W64S-3D | DOUBLE | .09817 | 3° - 35' | |
| W64S-3F | FOUR | .19635 | 7° - 8' | |

Counterbore relief on bore manufacturer's option.

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | PRES. ANGLE |
|-------|----------------------------------|------|------------------------|--------------|-------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD | 1/4" | 303 STAINLESS STEEL | 10 | RIGHT HAND |

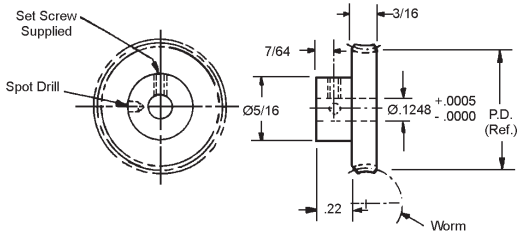


| STOCK NO. | THREAD | LEAD | LEAD ANGLE | PRESSURE ANGLE |
|-----------|--------|--------|------------|----------------|
| W64S-4S | SINGLE | .04908 | 1° - 47' | 14-1/2° |
| W64S-4D | DOUBLE | .09817 | 3° - 35' | |
| W64S-4F | FOUR | .19635 | 7° - 8' | |

Counterbore relief on bore manufacturer's option.

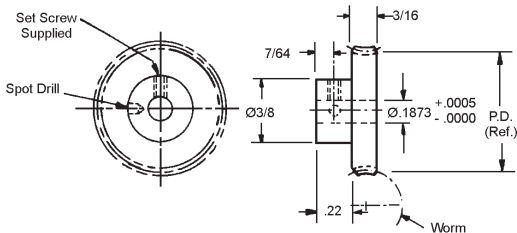
PRECISION WORM GEARS

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/8" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. | Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$ |
|---|---|--|-----------------|---------------|--|
| CIRCULAR PITCH .04908 HELIX ANGLE 1° - 47' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° | | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | | |
| W64B13-S40 | W64B13-D40 | W64B13-F40 | 40 | .625 | |
| W64B13-S50 | W64B13-D50 | W64B13-F50 | 50 | .781 | |
| W64B13-S60 | W64B13-D60 | W64B13-F60 | 60 | .937 | |
| W64B13-S70 | W64B13-D70 | W64B13-F70 | 70 | 1.093 | |
| W64B13-S80 | W64B13-D80 | W64B13-F80 | 80 | 1.250 | |
| W64B13-S90 | W64B13-D90 | W64B13-F90 | 90 | 1.406 | |
| W64B13-S100 | W64B13-D100 | W64B13-F100 | 100 | 1.562 | |
| W64B13-S110 | W64B13-D110 | W64B13-F110 | 110 | 1.719 | |
| W64B13-S120 | W64B13-D120 | W64B13-F120 | 120 | 1.875 | |
| W64B13-S180 | W64B13-D180 | W64B13-F180 | 180 | 2.813 | |
| W64B13-S360 | W64B13-D360 | W64B13-F360 | 360 | 5.625 | |

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|-------|-------|------------------------------|--------------|------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 3/16" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

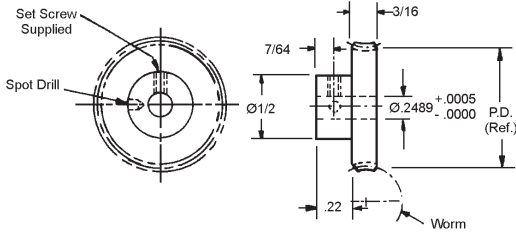


| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. | Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$ |
|---|---|--|-----------------|---------------|--|
| CIRCULAR PITCH .04908 HELIX ANGLE 1° - 47' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° | | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | | |
| W64B21-S40 | W64B21-D40 | W64B21-F40 | 40 | .625 | |
| W64B21-S50 | W64B21-D50 | W64B21-F50 | 50 | .781 | |
| W64B21-S60 | W64B21-D60 | W64B21-F60 | 60 | .937 | |
| W64B21-S70 | W64B21-D70 | W64B21-F70 | 70 | 1.093 | |
| W64B21-S80 | W64B21-D80 | W64B21-F80 | 80 | 1.250 | |
| W64B21-S90 | W64B21-D90 | W64B21-F90 | 90 | 1.406 | |
| W64B21-S100 | W64B21-D100 | W64B21-F100 | 100 | 1.562 | |
| W64B21-S110 | W64B21-D110 | W64B21-F110 | 110 | 1.719 | |
| W64B21-S120 | W64B21-D120 | W64B21-F120 | 120 | 1.875 | |

Other numbers of teeth and AGMA Quality 12 and 14 are available on request.

PRECISION WORM GEARS

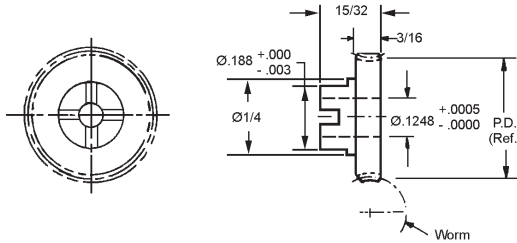
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/4" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|--|-----------------|---------------|
| CIRCULAR PITCH .04908 HELIX ANGLE 1° - 47' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W64B29-S40 | W64B29-D40 | W64B29-F40 | 40 | .625 |
| W64B29-S50 | W64B29-D50 | W64B29-F50 | 50 | .781 |
| W64B29-S60 | W64B29-D60 | W64B29-F60 | 60 | .937 |
| W64B29-S70 | W64B29-D70 | W64B29-F70 | 70 | 1.093 |
| W64B29-S80 | W64B29-D80 | W64B29-F80 | 80 | 1.250 |
| W64B29-S90 | W64B29-D90 | W64B29-F90 | 90 | 1.406 |
| W64B29-S100 | W64B29-D100 | W64B29-F100 | 100 | 1.562 |
| W64B29-S110 | W64B29-D110 | W64B29-F110 | 110 | 1.719 |
| W64B29-S120 | W64B29-D120 | W64B29-F120 | 120 | 1.875 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD PIN HUB | 1/8" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



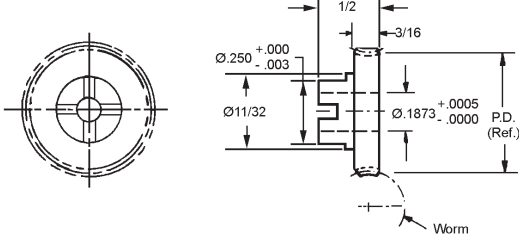
| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|--|-----------------|---------------|
| CIRCULAR PITCH .04908 HELIX ANGLE 1° - 47' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W64B13-S40-C | W64B13-D40-C | W64B13-F40-C | 40 | .625 |
| W64B13-S50-C | W64B13-D50-C | W64B13-F50-C | 50 | .781 |
| W64B13-S60-C | W64B13-D60-C | W64B13-F60-C | 60 | .937 |
| W64B13-S70-C | W64B13-D70-C | W64B13-F70-C | 70 | 1.093 |
| W64B13-S80-C | W64B13-D80-C | W64B13-F80-C | 80 | 1.250 |
| W64B13-S90-C | W64B13-D90-C | W64B13-F90-C | 90 | 1.406 |
| W64B13-S100-C | W64B13-D100-C | W64B13-F100-C | 100 | 1.562 |
| W64B13-S110-C | W64B13-D110-C | W64B13-F110-C | 110 | 1.719 |
| W64B13-S120-C | W64B13-D120-C | W64B13-F120-C | 120 | 1.875 |
| W64B13-S180-C | W64B13-D180-C | W64B13-F180-C | 180 | 2.813 |
| W64B13-S360-C | W64B13-D360-C | W64B13-F360-C | 360 | 5.625 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Other numbers of teeth and AGMA Quality 12 and 14 are available on request.

PRECISION WORM GEARS

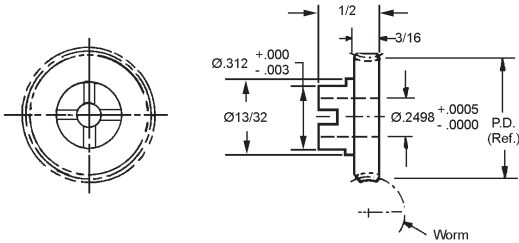
| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|-------|-------|------------------------------|--------------|------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD CLAMP STYLE | 3/16" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|--|--------------|------------|
| CIRCULAR PITCH .04908 HELIX ANGLE 1° - 47' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W64B21-S40-C | W64B21-D40-C | W64B21-F40-C | 40 | .625 |
| W64B21-S50-C | W64B21-D50-C | W64B21-F50-C | 50 | .781 |
| W64B21-S60-C | W64B21-D60-C | W64B21-F60-C | 60 | .937 |
| W64B21-S70-C | W64B21-D70-C | W64B21-F70-C | 70 | 1.093 |
| W64B21-S80-C | W64B21-D80-C | W64B21-F80-C | 80 | 1.250 |
| W64B21-S90-C | W64B21-D90-C | W64B21-F90-C | 90 | 1.406 |
| W64B21-S100-C | W64B21-D100-C | W64B21-F100-C | 100 | 1.562 |
| W64B21-S110-C | W64B21-D110-C | W64B21-F110-C | 110 | 1.719 |
| W64B21-S120-C | W64B21-D120-C | W64B21-F120-C | 120 | 1.875 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

| PITCH | STYLE | BORE | FACE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---|------|-------|------------------------------|--------------|------------|
| 64 | SINGLE, DOUBLE OR FOUR THREAD CLAMP STYLE | 1/4" | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |



| SINGLE THREAD WORM | DOUBLE THREAD WORM | FOUR THREAD WORM | NO. OF TEETH | PITCH DIA. |
|---|---|--|--------------|------------|
| CIRCULAR PITCH .04908 HELIX ANGLE 1° - 47' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° | CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° | | |
| STOCK NO. | STOCK NO. | STOCK NO. | | |
| W64B29-S40-C | W64B29-D40-C | W64B29-F40-C | 40 | .625 |
| W64B29-S50-C | W64B29-D50-C | W64B29-F50-C | 50 | .781 |
| W64B29-S60-C | W64B29-D60-C | W64B29-F60-C | 60 | .937 |
| W64B29-S70-C | W64B29-D70-C | W64B29-F70-C | 70 | 1.093 |
| W64B29-S80-C | W64B29-D80-C | W64B29-F80-C | 80 | 1.250 |
| W64B29-S90-C | W64B29-D90-C | W64B29-F90-C | 90 | 1.406 |
| W64B29-S100-C | W64B29-D100-C | W64B29-F100-C | 100 | 1.562 |
| W64B29-S110-C | W64B29-D110-C | W64B29-F110-C | 110 | 1.719 |
| W64B29-S120-C | W64B29-D120-C | W64B29-F120-C | 120 | 1.875 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Other numbers of teeth and AGMA Quality 12 and 14 are available on request.

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 64 | SINGLE THREAD PIN HUB | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS13-S50 | 50 | .781 |
| AW64BS13-S52 | 52 | .812 |
| AW64BS13-S60 | 60 | .937 |
| AW64BS13-S64 | 64 | 1.000 |
| AW64BS13-S70 | 70 | 1.094 |
| AW64BS13-S72 | 72 | 1.125 |
| AW64BS13-S80 | 80 | 1.250 |
| AW64BC13-S96 | 96 | 1.500 |
| AW64BC13-S100 | 100 | 1.563 |
| AW64BC13-S110 | 110 | 1.719 |
| AW64BC13-S120 | 120 | 1.875 |
| AW64BC13-S130 | 130 | 2.031 |
| AW64BC13-S140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°
Runs with worm # W64S-2S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 64 | DOUBLE THREAD PIN HUB | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS13-D50 | 50 | .781 |
| AW64BS13-D52 | 52 | .812 |
| AW64BS13-D60 | 60 | .937 |
| AW64BS13-D64 | 64 | 1.000 |
| AW64BS13-D70 | 70 | 1.094 |
| AW64BS13-D72 | 72 | 1.125 |
| AW64BS13-D80 | 80 | 1.250 |
| AW64BC13-D96 | 96 | 1.500 |
| AW64BC13-D100 | 100 | 1.563 |
| AW64BC13-D110 | 110 | 1.719 |
| AW64BC13-D120 | 120 | 1.875 |
| AW64BC13-D130 | 130 | 2.031 |
| AW64BC13-D140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°
Runs with worm # W64S-2D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------|------|------------------------------|--------------|------------|
| 64 | FOUR THREAD PIN HUB | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

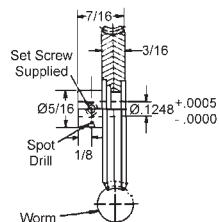
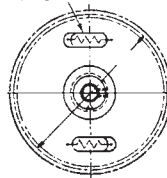
| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS13-F50 | 50 | .781 |
| AW64BS13-F52 | 52 | .812 |
| AW64BS13-F60 | 60 | .937 |
| AW64BS13-F64 | 64 | 1.000 |
| AW64BS13-F70 | 70 | 1.094 |
| AW64BS13-F72 | 72 | 1.125 |
| AW64BS13-F80 | 80 | 1.250 |
| AW64BC13-F96 | 96 | 1.500 |
| AW64BC13-F100 | 100 | 1.563 |
| AW64BC13-F110 | 110 | 1.719 |
| AW64BC13-F120 | 120 | 1.875 |
| AW64BC13-F130 | 130 | 2.031 |
| AW64BC13-F140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°
Runs with worm # W64S-2F



Scissor Spring 50T to 80T
Coil Spring 96T to 140T



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|-------|------------------------------|--------------|------------|
| 64 | SINGLE THREAD PIN HUB | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS21-S50 | 50 | .781 |
| AW64BS21-S52 | 52 | .812 |
| AW64BS21-S60 | 60 | .937 |
| AW64BS21-S64 | 64 | 1.000 |
| AW64BS21-S70 | 70 | 1.094 |
| AW64BS21-S72 | 72 | 1.125 |
| AW64BS21-S80 | 80 | 1.250 |
| AW64BC21-S96 | 96 | 1.500 |
| AW64BC21-S100 | 100 | 1.563 |
| AW64BC21-S110 | 110 | 1.719 |
| AW64BC21-S120 | 120 | 1.875 |
| AW64BC21-S130 | 130 | 2.031 |
| AW64BC21-S140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°

Runs with worm # W64S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|-------|------------------------------|--------------|------------|
| 64 | DOUBLE THREAD PIN HUB | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS21-D50 | 50 | .781 |
| AW64BS21-D52 | 52 | .812 |
| AW64BS21-D60 | 60 | .937 |
| AW64BS21-D64 | 64 | 1.000 |
| AW64BS21-D70 | 70 | 1.094 |
| AW64BS21-D72 | 72 | 1.125 |
| AW64BS21-D80 | 80 | 1.250 |
| AW64BC21-D96 | 96 | 1.500 |
| AW64BC21-D100 | 100 | 1.563 |
| AW64BC21-D110 | 110 | 1.719 |
| AW64BC21-D120 | 120 | 1.875 |
| AW64BC21-D130 | 130 | 2.031 |
| AW64BC21-D140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°

Runs with worm # W64S-3D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------|-------|------------------------------|--------------|------------|
| 64 | FOUR THREAD PIN HUB | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS21-F50 | 50 | .781 |
| AW64BS21-F52 | 52 | .812 |
| AW64BS21-F60 | 60 | .937 |
| AW64BS21-F64 | 64 | 1.000 |
| AW64BS21-F70 | 70 | 1.094 |
| AW64BS21-F72 | 72 | 1.125 |
| AW64BS21-F80 | 80 | 1.250 |
| AW64BC21-F96 | 96 | 1.500 |
| AW64BC21-F100 | 100 | 1.563 |
| AW64BC21-F110 | 110 | 1.719 |
| AW64BC21-F120 | 120 | 1.875 |
| AW64BC21-F130 | 130 | 2.031 |
| AW64BC21-F140 | 140 | 2.187 |

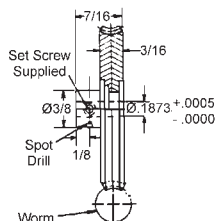
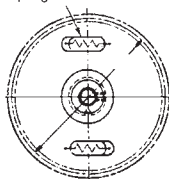
$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°

Runs with worm # W64S-3F



Scissor Spring 50T to 80T
Coil Spring 96T to 140T



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 64 | SINGLE THREAD PIN HUB | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS29-S50 | 50 | .781 |
| AW64BS29-S52 | 52 | .812 |
| AW64BS29-S60 | 60 | .937 |
| AW64BS29-S64 | 64 | 1.000 |
| AW64BS29-S70 | 70 | 1.094 |
| AW64BS29-S72 | 72 | 1.125 |
| AW64BS29-S80 | 80 | 1.250 |
| AW64BC29-S96 | 96 | 1.500 |
| AW64BC29-S100 | 100 | 1.563 |
| AW64BC29-S110 | 110 | 1.719 |
| AW64BC29-S120 | 120 | 1.875 |
| AW64BC29-S130 | 130 | 2.031 |
| AW64BC29-S140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°
Runs with worm # W64S-4S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|--------------------------|------|------------------------------|--------------|------------|
| 64 | DOUBLE THREAD PIN HUB | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS29-D50 | 50 | .781 |
| AW64BS29-D52 | 52 | .812 |
| AW64BS29-D60 | 60 | .937 |
| AW64BS29-D64 | 64 | 1.000 |
| AW64BS29-D70 | 70 | 1.094 |
| AW64BS29-D72 | 72 | 1.125 |
| AW64BS29-D80 | 80 | 1.250 |
| AW64BC29-D96 | 96 | 1.500 |
| AW64BC29-D100 | 100 | 1.563 |
| AW64BC29-D110 | 110 | 1.719 |
| AW64BC29-D120 | 120 | 1.875 |
| AW64BC29-D130 | 130 | 2.031 |
| AW64BC29-D140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°
Runs with worm # W64S-4D

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------|------|------------------------------|--------------|------------|
| 64 | FOUR THREAD PIN HUB | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

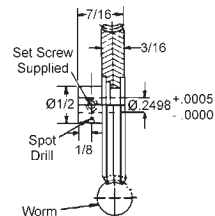
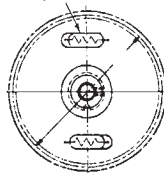
| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|---------------|--------------|------------|
| AW64BS21-F50 | 50 | .781 |
| AW64BS21-F52 | 52 | .812 |
| AW64BS21-F60 | 60 | .937 |
| AW64BS21-F64 | 64 | 1.000 |
| AW64BS21-F70 | 70 | 1.094 |
| AW64BS21-F72 | 72 | 1.125 |
| AW64BS21-F80 | 80 | 1.250 |
| AW64BC21-F96 | 96 | 1.500 |
| AW64BC21-F100 | 100 | 1.563 |
| AW64BC21-F110 | 110 | 1.719 |
| AW64BC21-F120 | 120 | 1.875 |
| AW64BC21-F130 | 130 | 2.031 |
| AW64BC21-F140 | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°
Runs with worm # W64S-4F



Scissor Spring 50T to 80T
Coil Spring 96T to 140T



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------------|------|------------------------------|--------------|------------|
| 64 | SINGLE THREAD CLAMP STYLE | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS13-S50-C | 50 | .781 |
| AW64BS13-S52-C | 52 | .812 |
| AW64BS13-S60-C | 60 | .937 |
| AW64BS13-S64-C | 64 | 1.000 |
| AW64BS13-S70-C | 70 | 1.094 |
| AW64BS13-S72-C | 72 | 1.125 |
| AW64BS13-S80-C | 80 | 1.250 |
| AW64BC13-S96-C | 96 | 1.500 |
| AW64BC13-S100-C | 100 | 1.563 |
| AW64BC13-S110-C | 110 | 1.719 |
| AW64BC13-S120-C | 120 | 1.875 |
| AW64BC13-S130-C | 130 | 2.031 |
| AW64BC13-S140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm # W64S-2S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------------|------|------------------------------|--------------|------------|
| 64 | DOUBLE THREAD CLAMP STYLE | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS13-D50-C | 50 | .781 |
| AW64BS13-D52-C | 52 | .812 |
| AW64BS13-D60-C | 60 | .937 |
| AW64BS13-D64-C | 64 | 1.000 |
| AW64BS13-D70-C | 70 | 1.094 |
| AW64BS13-D72-C | 72 | 1.125 |
| AW64BS13-D80-C | 80 | 1.250 |
| AW64BC13-D96-C | 96 | 1.500 |
| AW64BC13-D100-C | 100 | 1.563 |
| AW64BC13-D110-C | 110 | 1.719 |
| AW64BC13-D120-C | 120 | 1.875 |
| AW64BC13-D130-C | 130 | 2.031 |
| AW64BC13-D140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm # W64S-2D

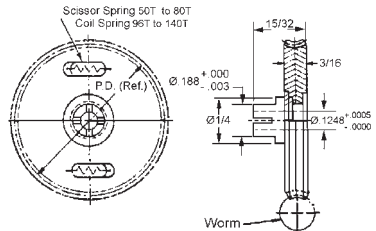
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|----------------------------|------|------------------------------|--------------|------------|
| 64 | FOUR THREAD CLAMP STYLE | 1/8" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS13-F50-C | 50 | .781 |
| AW64BS13-F52-C | 52 | .812 |
| AW64BS13-F60-C | 60 | .937 |
| AW64BS13-F64-C | 64 | 1.000 |
| AW64BS13-F70-C | 70 | 1.094 |
| AW64BS13-F72-C | 72 | 1.125 |
| AW64BS13-F80-C | 80 | 1.250 |
| AW64BC13-F96-C | 96 | 1.500 |
| AW64BC13-F100-C | 100 | 1.563 |
| AW64BC13-F110-C | 110 | 1.719 |
| AW64BC13-F120-C | 120 | 1.875 |
| AW64BC13-F130-C | 130 | 2.031 |
| AW64BC13-F140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm # W64S-2F



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---------------------------|-------|---------------------------|--------------|------------|
| 64 | SINGLE THREAD CLAMP STYLE | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS21-S50-C | 50 | .781 |
| AW64BS21-S52-C | 52 | .812 |
| AW64BS21-S60-C | 60 | .937 |
| AW64BS21-S64-C | 64 | 1.000 |
| AW64BS21-S70-C | 70 | 1.094 |
| AW64BS21-S72-C | 72 | 1.125 |
| AW64BS21-S80-C | 80 | 1.250 |
| AW64BC21-S96-C | 96 | 1.500 |
| AW64BC21-S100-C | 100 | 1.563 |
| AW64BC21-S110-C | 110 | 1.719 |
| AW64BC21-S120-C | 120 | 1.875 |
| AW64BC21-S130-C | 130 | 2.031 |
| AW64BC21-S140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°

Runs with worm # W64S-3S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|---------------------------|-------|---------------------------|--------------|------------|
| 64 | DOUBLE THREAD CLAMP STYLE | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS21-D50-C | 50 | .781 |
| AW64BS21-D52-C | 52 | .812 |
| AW64BS21-D60-C | 60 | .937 |
| AW64BS21-D64-C | 64 | 1.000 |
| AW64BS21-D70-C | 70 | 1.094 |
| AW64BS21-D72-C | 72 | 1.125 |
| AW64BS21-D80-C | 80 | 1.250 |
| AW64BC21-D96-C | 96 | 1.500 |
| AW64BC21-D100-C | 100 | 1.563 |
| AW64BC21-D110-C | 110 | 1.719 |
| AW64BC21-D120-C | 120 | 1.875 |
| AW64BC21-D130-C | 130 | 2.031 |
| AW64BC21-D140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°

Runs with worm # W64S-3D

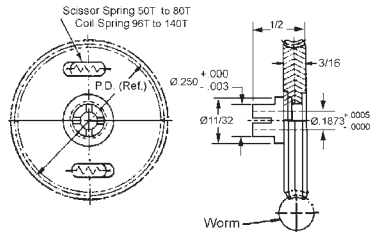
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|-------------------------|-------|---------------------------|--------------|------------|
| 64 | FOUR THREAD CLAMP STYLE | 3/16" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS21-F50-C | 50 | .781 |
| AW64BS21-F52-C | 52 | .812 |
| AW64BS21-F60-C | 60 | .937 |
| AW64BS21-F64-C | 64 | 1.000 |
| AW64BS21-F70-C | 70 | 1.094 |
| AW64BS21-F72-C | 72 | 1.125 |
| AW64BS21-F80-C | 80 | 1.250 |
| AW64BC21-F96-C | 96 | 1.500 |
| AW64BC21-F100-C | 100 | 1.563 |
| AW64BC21-F110-C | 110 | 1.719 |
| AW64BC21-F120-C | 120 | 1.875 |
| AW64BC21-F130-C | 130 | 2.031 |
| AW64BC21-F140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14/1/2°

Runs with worm # W64S-2F



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

ANTI-BACKLASH WORM GEARS

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------------|------|------------------------------|--------------|------------|
| 64 | SINGLE THREAD CLAMP STYLE | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS29-S50-C | 50 | .781 |
| AW64BS29-S52-C | 52 | .812 |
| AW64BS29-S60-C | 60 | .937 |
| AW64BS29-S64-C | 64 | 1.000 |
| AW64BS29-S70-C | 70 | 1.094 |
| AW64BS29-S72-C | 72 | 1.125 |
| AW64BS29-S80-C | 80 | 1.250 |
| AW64BC29-S96-C | 96 | 1.500 |
| AW64BC29-S100-C | 100 | 1.563 |
| AW64BC29-S110-C | 110 | 1.719 |
| AW64BC29-S120-C | 120 | 1.875 |
| AW64BC29-S130-C | 130 | 2.031 |
| AW64BC29-S140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm # W64S-4S

| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|------------------------------|------|------------------------------|--------------|------------|
| 64 | DOUBLE THREAD CLAMP STYLE | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS29-D50-C | 50 | .781 |
| AW64BS29-D52-C | 52 | .812 |
| AW64BS29-D60-C | 60 | .937 |
| AW64BS29-D64-C | 64 | 1.000 |
| AW64BS29-D70-C | 70 | 1.094 |
| AW64BS29-D72-C | 72 | 1.125 |
| AW64BS29-D80-C | 80 | 1.250 |
| AW64BC29-D96-C | 96 | 1.500 |
| AW64BC29-D100-C | 100 | 1.563 |
| AW64BC29-D110-C | 110 | 1.719 |
| AW64BC29-D120-C | 120 | 1.875 |
| AW64BC29-D130-C | 130 | 2.031 |
| AW64BC29-D140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm # W64S-4D

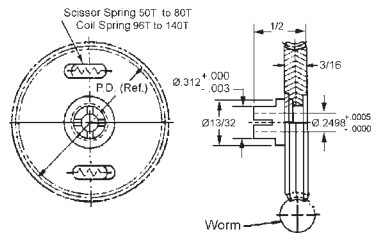
| PITCH | STYLE | BORE | MATERIAL | AGMA QUALITY | TYPE |
|-------|----------------------------|------|------------------------------|--------------|------------|
| 64 | FOUR THREAD CLAMP STYLE | 1/4" | BRONZE QQ-B-637 ALLOY 464 | 10 | RIGHT HAND |

| STOCK NO. | NO. OF TEETH | PITCH DIA. |
|-----------------|--------------|------------|
| AW64BS29-F50-C | 50 | .781 |
| AW64BS29-F52-C | 52 | .812 |
| AW64BS29-F60-C | 60 | .937 |
| AW64BS29-F64-C | 64 | 1.000 |
| AW64BS29-F70-C | 70 | 1.094 |
| AW64BS29-F72-C | 72 | 1.125 |
| AW64BS29-F80-C | 80 | 1.250 |
| AW64BC29-F96-C | 96 | 1.500 |
| AW64BC29-F100-C | 100 | 1.563 |
| AW64BC29-F110-C | 110 | 1.719 |
| AW64BC29-F120-C | 120 | 1.875 |
| AW64BC29-F130-C | 130 | 2.031 |
| AW64BC29-F140-C | 140 | 2.187 |

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

Pressure Angle 14 1/2°

Runs with worm # W64S-4F



Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

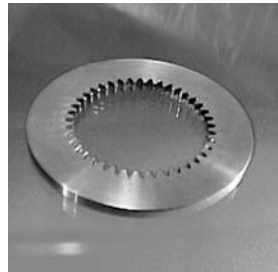
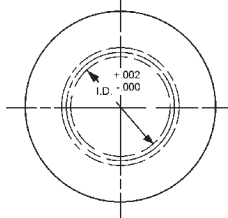
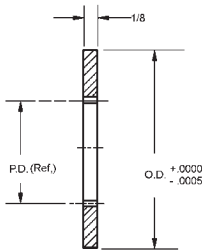
INTERNAL GEARS

| PITCH | I.D. | O.D. | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|------------------|---------------------|--|--------------|----------------|
| 24 | .750 TO 3.166 | 1.9980 TO 3.9980 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | INSIDE DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|-------------|--------------|
| N24S2-20 | N24A2-20 | 20 | .8333 | .750 | 1.9980 |
| N24S2-25 | N24A2-25 | 25 | 1.0417 | .958 | |
| N24S2-30 | N24A2-30 | 30 | 1.2500 | 1.166 | |
| N24S2-35 | N24A2-35 | 35 | 1.4583 | 1.375 | |
| N24S3-35 | N24A3-35 | 35 | 1.4583 | 1.375 | 2.9980 |
| N24S3-40 | N24A3-40 | 40 | 1.6667 | 1.583 | |
| N24S3-45 | N24A3-45 | 45 | 1.8750 | 1.791 | |
| N24S3-50 | N24A3-50 | 50 | 2.0833 | 2.000 | |
| N24S3-60 | N24A3-60 | 60 | 2.5000 | 2.416 | 3.9980 |
| N24S4-60 | N24A4-60 | 60 | 2.5000 | 2.416 | |
| N24S4-65 | N24A4-65 | 65 | 2.7083 | 2.625 | |
| N24S4-70 | N24A4-70 | 70 | 2.9167 | 2.834 | |
| N24S4-72 | N24A4-72 | 72 | 3.0000 | 2.916 | 3.9980 |
| N24S4-78 | N24A4-78 | 78 | 3.2500 | 3.166 | |

| PITCH | I.D. | O.D. | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|------------------|---------------------|--|--------------|----------------|
| 32 | .718 TO 3.062 | 1.9980 TO 3.9980 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | INSIDE DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|-------------|--------------|
| N32S2-25 | N32A2-25 | 25 | .7813 | .718 | 1.9980 |
| N32S2-30 | N32A2-30 | 30 | .9375 | .875 | |
| N32S2-35 | N32A2-35 | 35 | 1.0938 | 1.031 | |
| N32S2-40 | N32A2-40 | 40 | 1.2500 | 1.187 | |
| N32S2-45 | N32A2-45 | 45 | 1.4063 | 1.343 | |
| N32S3-45 | N32A3-45 | 45 | 1.4063 | 1.343 | 2.9980 |
| N32S3-50 | N32A3-50 | 50 | 1.5625 | 1.500 | |
| N32S3-60 | N32A3-60 | 60 | 1.8750 | 1.812 | |
| N32S3-70 | N32A3-70 | 70 | 2.1875 | 2.125 | |
| N32S3-80 | N32A3-80 | 80 | 2.5000 | 2.437 | |
| N32S4-80 | N32A4-80 | 80 | 2.5000 | 2.437 | 3.9980 |
| N32S4-85 | N32A4-85 | 85 | 2.6563 | 2.593 | |
| N32S4-90 | N32A4-90 | 90 | 2.8125 | 2.750 | |
| N32S4-96 | N32A4-96 | 96 | 3.0000 | 2.937 | |
| N32S4-100 | N32A4-100 | 100 | 3.1250 | 3.062 | |



Drawing and dimensions apply to all pitches.
Special internal gears on request.

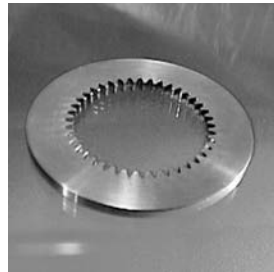
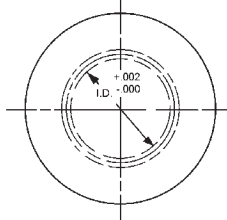
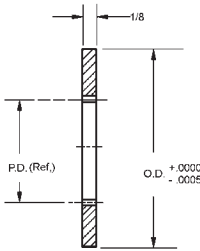
INTERNAL GEARS

| PITCH | I.D. | O.D. | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------|------------------|--|--------------|----------------|
| 48 | .791 TO 3.208 | 1.9980 TO 3.9980 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | INSIDE DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|-------------|--------------|
| N48S2-40 | N48A2-40 | 40 | .8333 | .791 | 1.9980 |
| N48S2-50 | N48A2-50 | 50 | 1.0417 | 1.000 | |
| N48S2-60 | N48A2-60 | 60 | 1.2500 | 1.208 | |
| N48S2-70 | N48A2-70 | 70 | 1.4583 | 1.416 | |
| N48S3-70 | N48A3-70 | 70 | 1.4583 | 1.416 | 2.9980 |
| N48S3-80 | N48A3-80 | 80 | 1.6667 | 1.625 | |
| N48S3-90 | N48A3-90 | 90 | 1.8750 | 1.833 | |
| N48S3-100 | N48A3-100 | 100 | 2.0833 | 2.041 | |
| N48S3-120 | N48A3-120 | 120 | 2.5000 | 2.458 | 3.9980 |
| N48S4-120 | N48A4-120 | 120 | 2.5000 | 2.458 | |
| N48S4-130 | N48A4-130 | 130 | 2.7083 | 2.666 | |
| N48S4-140 | N48A4-140 | 140 | 2.9167 | 2.875 | |
| N48S4-144 | N48A4-144 | 144 | 3.0000 | 2.958 | 3.9980 |
| N48S4-156 | N48A4-156 | 156 | 3.2500 | 3.208 | |

| PITCH | I.D. | O.D. | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------|------------------|--|--------------|----------------|
| 64 | .750 TO 3.093 | 1.9980 TO 3.9980 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | INSIDE DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|-------------|--------------|
| N64S2-50 | N64A2-50 | 50 | .7813 | .750 | 1.9980 |
| N64S2-60 | N64A2-60 | 60 | .9375 | .906 | |
| N64S2-70 | N64A2-70 | 70 | 1.0938 | 1.062 | |
| N64S2-80 | N64A2-80 | 80 | 1.2500 | 1.219 | |
| N64S2-90 | N64A2-90 | 90 | 1.4063 | 1.375 | |
| N64S3-90 | N64A3-90 | 90 | 1.4063 | 1.375 | 2.9980 |
| N64S3-100 | N64A3-100 | 100 | 1.5625 | 1.531 | |
| N64S3-120 | N64A3-120 | 120 | 1.8750 | 1.843 | |
| N64S3-140 | N64A3-140 | 140 | 2.1875 | 2.156 | |
| N64S3-160 | N64A3-160 | 160 | 2.5000 | 2.468 | |
| N64S4-160 | N64A4-160 | 160 | 2.5000 | 2.468 | 3.9980 |
| N64S4-170 | N64A4-170 | 170 | 2.6563 | 2.625 | |
| N64S4-180 | N64A4-180 | 180 | 2.8125 | 2.781 | |
| N64S4-192 | N64A4-192 | 192 | 3.0000 | 2.968 | |
| N64S4-200 | N64A4-200 | 200 | 3.1250 | 3.093 | |



Drawing and dimensions apply to all pitches.
Special internal gears on request.

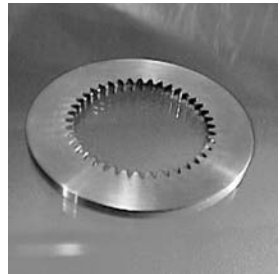
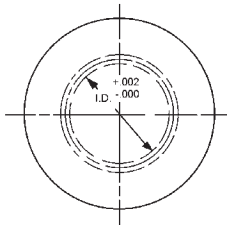
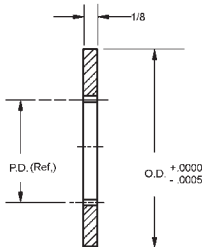
INTERNAL GEARS

| PITCH | I.D. | O.D. | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------|------------------|--|--------------|----------------|
| 72 | .805 TO 3.027 | 1.9980 TO 3.9980 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | INSIDE DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|-------------|--------------|
| N72S2-60 | N72A2-60 | 60 | .8333 | .805 | 1.9980 |
| N72S2-80 | N72A2-80 | 80 | 1.1111 | 1.083 | |
| N72S2-100 | N72A2-100 | 100 | 1.3889 | 1.361 | |
| N72S2-110 | N72A2-110 | 110 | 1.5278 | 1.500 | |
| N72S3-110 | N72A3-110 | 110 | 1.5278 | 1.500 | 2.9980 |
| N72S3-120 | N72A3-120 | 120 | 1.6667 | 1.639 | |
| N72S3-140 | N72A3-140 | 140 | 1.9444 | 1.916 | |
| N72S3-160 | N72A3-160 | 160 | 2.2222 | 2.194 | |
| N72S3-180 | N72A3-180 | 180 | 2.5000 | 2.472 | |
| N72S4-180 | N72A4-180 | 180 | 2.5000 | 2.472 | 3.9980 |
| N72S4-190 | N72A4-190 | 190 | 2.6389 | 2.611 | |
| N72S4-200 | N72A4-200 | 200 | 2.7778 | 2.750 | |
| N72S4-216 | N72A4-216 | 216 | 3.0000 | 2.972 | |
| N72S4-220 | N72A4-220 | 220 | 3.0556 | 3.027 | |

| PITCH | I.D. | O.D. | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------|------------------|--|--------------|----------------|
| 96 | .812 TO 3.105 | 1.9980 TO 3.9980 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | INSIDE DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|-------------|--------------|
| N96S2-80 | N96A2-80 | 80 | .8333 | .812 | 1.9980 |
| N96S2-100 | N96A2-100 | 100 | 1.0416 | 1.021 | |
| N96S2-120 | N96A2-120 | 120 | 1.2500 | 1.230 | |
| N96S2-140 | N96A2-140 | 140 | 1.4583 | 1.438 | |
| N96S2-150 | N96A2-150 | 150 | 1.5625 | 1.542 | |
| N96S3-150 | N96A3-150 | 150 | 1.5625 | 1.542 | 2.9980 |
| N96S3-160 | N96A3-160 | 160 | 1.6667 | 1.646 | |
| N96S3-180 | N96A3-180 | 180 | 1.8750 | 1.855 | |
| N96S3-200 | N96A3-200 | 200 | 2.0833 | 2.063 | |
| N96S3-240 | N96A3-240 | 240 | 2.5000 | 2.480 | |
| N96S4-240 | N96A4-240 | 240 | 2.5000 | 2.480 | 3.9980 |
| N96S4-250 | N96A4-250 | 250 | 2.6042 | 2.584 | |
| N96S4-260 | N96A4-260 | 260 | 2.7083 | 2.688 | |
| N96S4-280 | N96A4-280 | 280 | 2.9167 | 2.896 | |
| N96S4-288 | N96A4-288 | 288 | 3.0000 | 2.980 | |
| N96S4-300 | N96A4-300 | 300 | 3.1250 | 3.105 | |

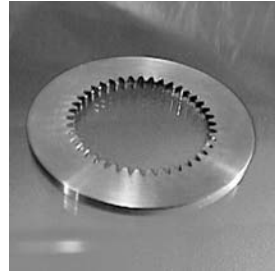
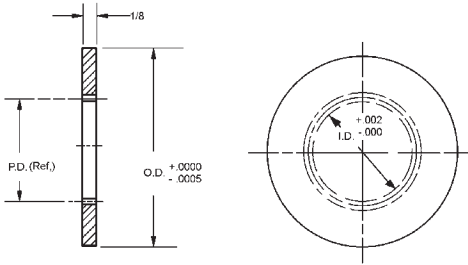


Drawing and dimensions apply to all pitches.
Special internal gears on request.

INTERNAL GEARS

| PITCH | I.D. | O.D. | MATERIAL | AGMA QUALITY | PRESSURE ANGLE |
|-------|---------------|------------------|--|--------------|----------------|
| 120 | .816 TO 3.149 | 1.9980 TO 3.9980 | 303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED | 10 | 20° |

| 303 STAINLESS STEEL STOCK NO. | 2024-T4 ALUMINUM ANODIZED STOCK NO. | NO. OF TEETH | PITCH DIA. | INSIDE DIA. | OUTSIDE DIA. |
|-------------------------------|-------------------------------------|--------------|------------|-------------|--------------|
| N120S2-100 | N120A2-100 | 100 | .8333 | .816 | 1.9980 |
| N120S2-120 | N120A2-120 | 120 | 1.0000 | .983 | |
| N120S2-140 | N120A2-140 | 140 | 1.1667 | 1.149 | |
| N120S2-160 | N120A2-160 | 160 | 1.3333 | 1.316 | |
| N120S2-180 | N120A2-180 | 180 | 1.5000 | 1.483 | |
| N120S3-180 | N120A3-180 | 180 | 1.5000 | 1.483 | 2.9980 |
| N120S3-200 | N120A3-200 | 200 | 1.6667 | 1.649 | |
| N120S3-240 | N120A3-240 | 240 | 2.0000 | 1.983 | |
| N120S3-250 | N120A3-250 | 250 | 2.0833 | 2.066 | |
| N120S3-270 | N120A3-270 | 270 | 2.2500 | 2.233 | |
| N120S3-300 | N120A3-300 | 300 | 2.5000 | 2.483 | |
| N120S4-300 | N120A4-300 | 300 | 2.5000 | 2.483 | 3.9980 |
| N120S4-320 | N120A4-320 | 320 | 2.6667 | 2.649 | |
| N120S4-340 | N120A4-340 | 340 | 2.8333 | 2.816 | |
| N120S4-350 | N120A4-350 | 350 | 2.9167 | 2.900 | |
| N120S4-360 | N120A4-360 | 360 | 3.0000 | 2.983 | |
| N120S4-380 | N120A4-380 | 380 | 3.1667 | 3.149 | |



Drawing and dimensions apply to all pitches.
Special internal gears on request.

For Couplings See Section G.
For Shafts, Bearings and Collars See Section I.

