

GEARS

Table of Contents

GEAR BLANKS

HUBLESS	B 2
PIN HUB	B 3 - B 4
CLAMP HUB	B 5

SPUR GEARS

HUBLESS - 12 PITCH	B 6
HUBLESS - 16 PITCH	B 8 - B 9
HUBLESS - 20 PITCH	B 14
HUBLESS - 24 PITCH	B 20 - B 21
HUBLESS - 32 PITCH	B 46 - B 49
HUBLESS - 48 PITCH	B 72 - B 74
HUBLESS - 64 PITCH	B 115 - B 116
HUBLESS - 72 PITCH	B 151
HUBLESS - 80 PITCH	B 175
HUBLESS - 96 PITCH	B 180
HUBLESS - 120 PITCH	B 203
PIN HUB - 1/20 PITCH	B 111 - B 112
PIN HUB - 1/10 PITCH	B 40 - B 41
PIN HUB - 12 PITCH	B 7
PIN HUB - 16 PITCH	B 10 - B 11
PIN HUB - 20 PITCH	B 15 - B 17
PIN HUB - 24 PITCH	B 23 - B 32
PIN HUB - 32 PITCH	B 51 - B 60
PIN HUB - 48 PITCH	B 77 - B 89
PIN HUB - 64 PITCH	B 119 - B 128
PIN HUB - 72 PITCH	B 154 - B 157
PIN HUB - 80 PITCH	B 176 - B 177
PIN HUB - 96 PITCH	B 182 - B 186
PIN HUB - 120 PITCH	B 206 - B 208
CLAMP HUB - 16 PITCH	B 12
CLAMP HUB - 20 PITCH	B 18
CLAMP HUB - 32 PITCH	B 61 - B 62
CLAMP HUB - 48 PITCH	B 90 - B 93
CLAMP HUB - 64 PITCH	B 129 - B 131
CLAMP HUB - 72 PITCH	B 158 - B 159
CLAMP HUB - 96 PITCH	B 187

GEAR RACKS

1/20 PITCH	B 113
1/10 PITCH	B 42 - B 43
16 PITCH	B 13
20 PITCH	B 19
24 PITCH	B 33 - B 34
32 PITCH	B 63 - B 64
48 PITCH	B 94 - B 95
64 PITCH	B 132 - B 133
72 PITCH	B 160 - B 161
80 PITCH	B 178
96 PITCH	B 188 - B 189
120 PITCH	B 209

CLUSTER GEARS & HUBS

24 PITCH	B 22
32 PITCH	B 50
48 PITCH	B 75 - B 76
64 PITCH	B 117 - B 118
72 PITCH	B 152 - B 153
96 PITCH	B 181
120 PITCH	B 204 - B 205

ANTI-BACKLASH GEARS

PIN HUB - 24 PITCH	B 35 - B 36
PIN HUB - 32 PITCH	B 65 - B 67
PIN HUB - 48 PITCH	B 96 - B 101
PIN HUB - 64 PITCH	B 134 - B 140
PIN HUB - 72 PITCH	B 162 - B 163, B 165 - B 167
PIN HUB - 96 PITCH	B 191 - B 193, B 195

ANTI-BACKLASH GEARS CONT.

CLAMP HUB - 1/10 PITCH	B 44
CLAMP HUB - 24 PITCH	B 36 - B 37
CLAMP HUB - 32 PITCH	B 68 - B 69
CLAMP HUB - 48 PITCH	B 102 - B 107
CLAMP HUB - 64 PITCH	B 141 - B 147
CLAMP HUB - 72 PITCH	B 169 - B 173
CLAMP HUB - 96 PITCH	B 196 - B 201

PINION SHAFTS

1/20 PITCH	B 114
1/10 PITCH	B 45
24 PITCH	B 38
32 PITCH	B 70
48 PITCH	B 108 - B 109
64 PITCH	B 148 - B 149
72 PITCH	B 174
80 PITCH	B 179
96 PITCH	B 202
120 PITCH	B 210

SPUR GEAR STOCKS

24 PITCH	B 39
32 PITCH	B 71
48 PITCH	B 110
64 PITCH	B 150

ANTI-BACKLASH PINIONS

PIN HUB - 72 PITCH	B 164
PIN HUB - 96 PITCH	B 190, B 194
CLAMP HUB - 72 PITCH	B 168

HELICAL GEARS

16 PITCH	B 211
20 PITCH	B 211
24 PITCH	B 212
32 PITCH	B 212
48 PITCH	B 213 - B 214
64 PITCH	B 215 - B 216

PRECISION WORMS

16 PITCH	B 217
24 PITCH	B 219
32 PITCH	B 221
48 PITCH	B 224
64 PITCH	B 235

PRECISION WORM GEARS

16 PITCH	B 218
24 PITCH	B 220
32 PITCH	B 222 - B 223
48 PITCH	B 226 - B 228
64 PITCH	B 236 - B 238

PRECISION WORM SHAFTS

48 PITCH	B 225
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ANTI-BACKLASH WORM GEARS

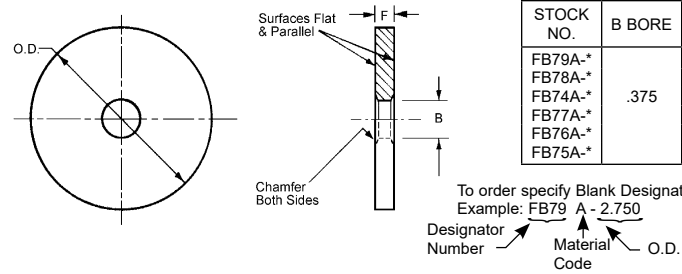
48 PITCH	B 229 - B 234
64 PITCH	B 239 - B 244

INTERNAL GEARS

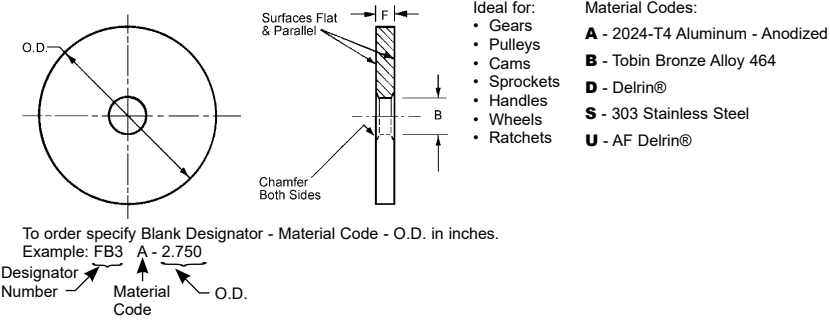
24 PITCH	B 245
32 PITCH	B 245
48 PITCH	B 246
64 PITCH	B 246
72 PITCH	B 247
96 PITCH	B 247
120 PITCH	B 248

GEAR BLANKS

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



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

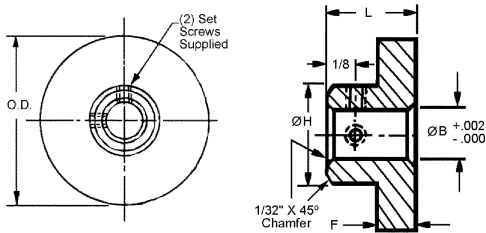


BLANK DESIGNATOR	B BORE	F FACE	MAX. AVAILABLE MATERIAL	ANODIZE STOCK O.D.	COLOR (ALUM.ONLY)
FB1	+.0005 .3748	1/16	A, S	3.125	GRAY
FB2		3/32	A, S	4.250	GRAY
FB3		1/8	A, S, U	4.250	GRAY
FB5		3/16	A, D**, S	4.250	GRAY
FB6		1/4	A, S, U	7.500	GRAY
FB75	+.002 .375	1/8	A	3.106	BLACK
FB76		3/16	A	4.063	GOLD
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	GRAY
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	-

** 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

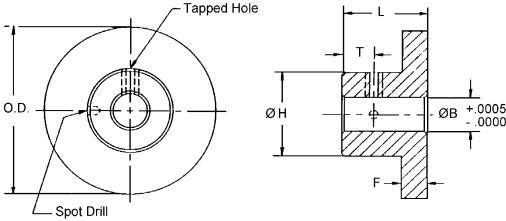
Designator Number ↗ ↘ O.D.

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

Designator Material
Number Code O.D.

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	.11			A, N, S	2.625
PB13		3/16		13/32				B	2.625
PB14		3/16	3/8	.09			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	3.250
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

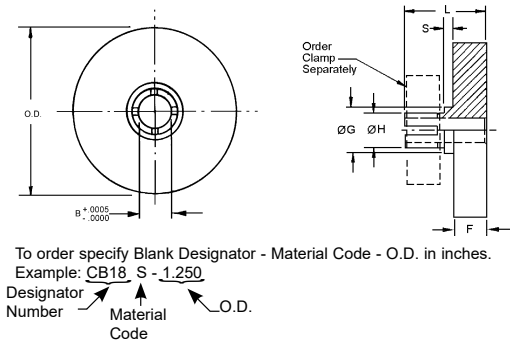
B - Tobin Bronze Alloy 464

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



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

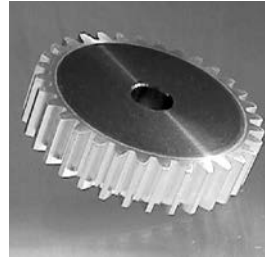
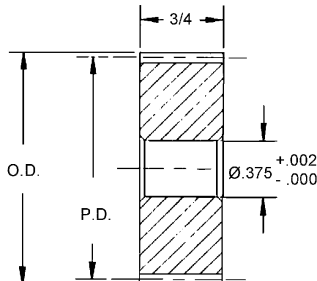
- Ideal for:

 - 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°



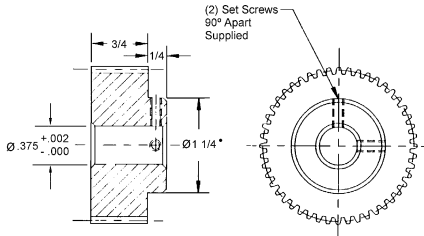
STOCK NO.	NO. OF TEETH	P.D.	O.D.
F12A79-12	12	1.0000	1.166
F12A79-13	13	1.0833	1.250
F12A79-14	14	1.1666	1.333
F12A79-15	15	1.2500	1.416
F12A79-16	16	1.3333	1.500
F12A79-18	18	1.5000	1.666
F12A79-20	20	1.6666	1.833
F12A79-21	21	1.7500	1.916
F12A79-22	22	1.8333	2.000
F12A79-24	24	2.0000	2.166
F12A79-30	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	PRES. ANGLE
12	PIN HUB	3/8"	3/4"	Aluminum Anodized (Green)	8	20°

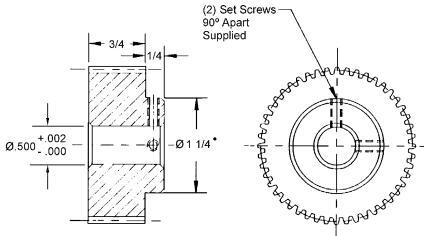


STOCK NO.	NO. OF TEETH	P.D.	O.D.
P12A72-12	12•	1.0000	1.166
P12A72-13	13•	1.0833	1.250
P12A72-14	14•	1.1666	1.333
P12A72-15	15•	1.2500	1.416
P12A72-16	16•	1.3333	1.500
P12A72-18	18	1.5000	1.666
P12A72-20	20	1.6666	1.833
P12A72-21	21	1.7500	1.916
P12A72-22	22	1.8333	2.000
P12A72-24	24	2.0000	2.166
P12A72-30	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	PRES. ANGLE
12	PIN HUB	1/2"	3/4"	Aluminum Anodized (Green)	8	20°

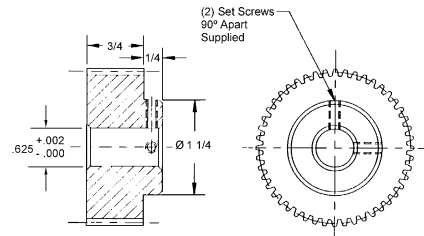


STOCK NO.	NO. OF TEETH	P.D.	O.D.
P12A73-12	12•	1.0000	1.166
P12A73-13	13•	1.0833	1.250
P12A73-14	14•	1.1666	1.333
P12A73-15	15•	1.2500	1.416
P12A73-16	16•	1.3333	1.500
P12A73-18	18	1.5000	1.666
P12A73-20	20	1.6666	1.833
P12A73-21	21	1.7500	1.916
P12A73-22	22	1.8333	2.000
P12A73-24	24	2.0000	2.166
P12A73-30	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

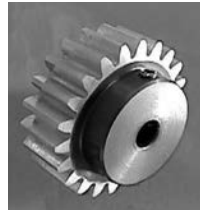


• For 11 - 17 teeth hub diameter equals .71.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

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



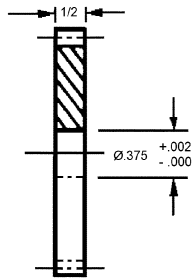
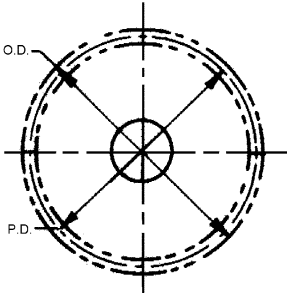
STOCK NO.	NO. OF TEETH	P.D.	O.D.
P12A74-18	18	1.5000	1.666
P12A74-20	20	1.6666	1.833
P12A74-21	21	1.7500	1.916
P12A74-22	22	1.8333	2.000
P12A74-24	24	2.0000	2.166
P12A74-30	30	2.5000	2.666
P12A74-32	32	2.6666	2.833
P12A74-36	36	3.0000	3.166
P12A74-40	40	3.3333	3.500
P12A74-42	42	3.5000	3.666
P12A74-48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

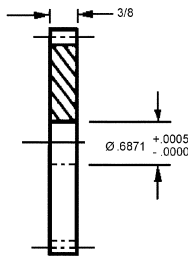
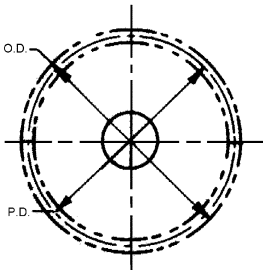
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
16	HUBLESS	3/8"	1/2"	Aluminum Anodized (BLUE)	8	20°



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	PRES. 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

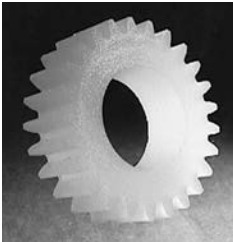
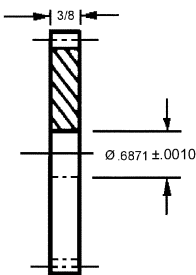
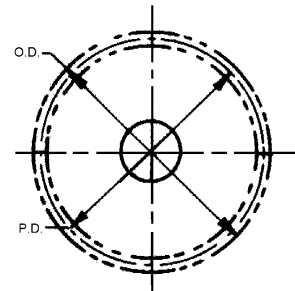
Available on request:
Other numbers of teeth; Pin or Clamp hubs assembled; 14 - 1/2° pressure angle.



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

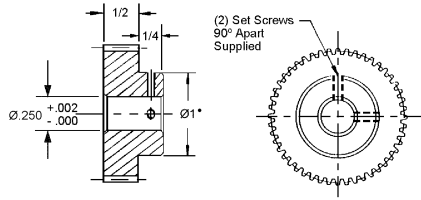
Available on request:
Other numbers of teeth;
Pin or Clamp hubs assembled;
14 - 1/2° pressure angle.

B

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

SPUR GEARS

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

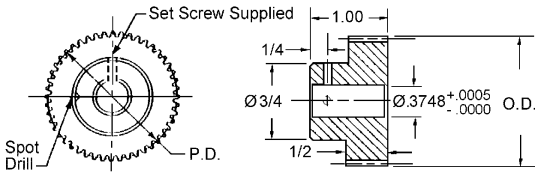


• For 10 - 18 teeth hub diameter equals .47.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

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



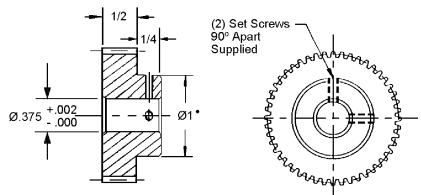
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
16	PIN HUB	3/8"	1/2"	303 STAINLESS STEEL	10	20°



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	PRES. 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.

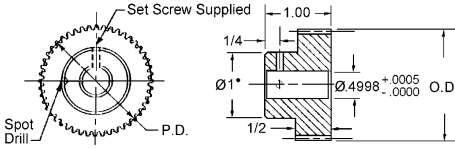
STOCK NO.	NO. OF TEETH	P.D.	O.D.
P16A70-12	12•	.7500	.875
P16A70-13	13•	.8125	.937
P16A70-14	14•	.8750	1.000
P16A70-15	15•	.9375	1.062
P16A70-16	16•	1.0000	1.125
P16A70-18	18•	1.1250	1.250
P16A70-20	20	1.2500	1.375
P16A70-22	22	1.3750	1.500
P16A70-24	24	1.5000	1.625
P16A70-26	26	1.6250	1.750
P16A70-28	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	PRES. ANGLE
16	PIN HUB	1/2"	1/2"	303 STAINLESS STEEL	10	20°

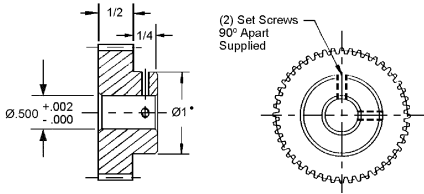


STOCK NO.	NO. OF TEETH	P.D.	O.D.
P16S38-18	18•	1.1250	1.250
P16S38-20	20	1.2500	1.375
P16S38-24	24	1.5000	1.625
P16S38-28	28	1.7500	1.875
P16S38-30	30	1.8750	2.000
P16S38-32	32	2.0000	2.125
P16S38-36	36	2.2500	2.375
P16S38-40	40	2.5000	2.625
P16S38-48	48	3.0000	3.125
P16S38-56	56	3.5000	3.625
P16S38-64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

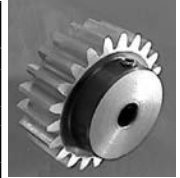


• For 15 - 18 teeth hub diameter equals .78.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. 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

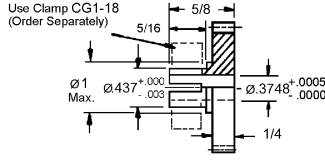
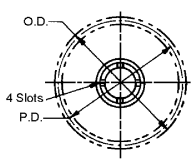


• For 16 - 18 teeth hub diameter equals .84.
Available on request: other numbers of teeth; 14 - 1/2° pressure angle.

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

SPUR GEARS

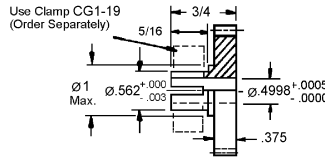
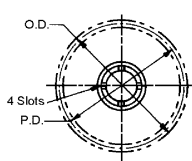
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
16	CLAMP HUB	3/8"	1/4"	303 STAINLESS STEEL	9	20°



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;
14 - 1/2° pressure angle.

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



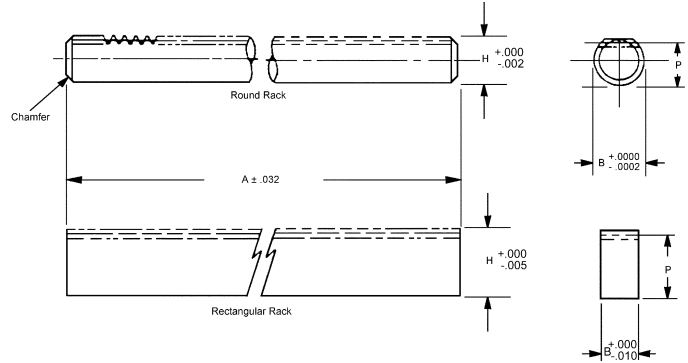
STOCK NO.	NO. OF TEETH	P.D.	O.D.
C16S29-16	16	1.0000	1.125
C16S29-18	18	1.1250	1.250
C16S29-20	20	1.2500	1.375
C16S29-24	24	1.5000	1.625
C16S29-32	32	2.0000	2.125
C16S29-40	40	2.5000	2.625
C16S29-48	48	3.0000	3.125

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°

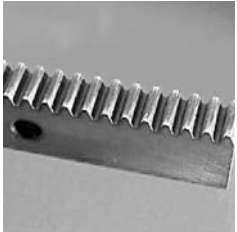
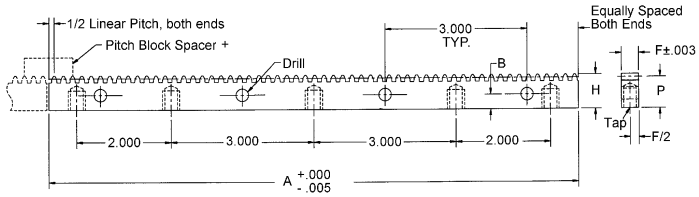


B

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°



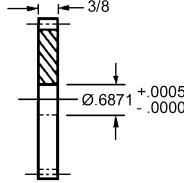
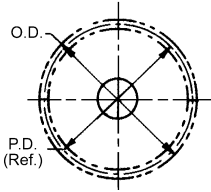
+Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

RACKS	SPACER BLOCK	AGMA QTY. 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.											
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

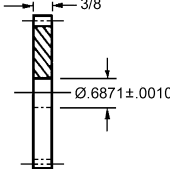
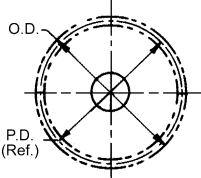
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
20	HUBLESS	11/16"	3/8"	303 STAINLESS STEEL	9	20°



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	PRES. 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

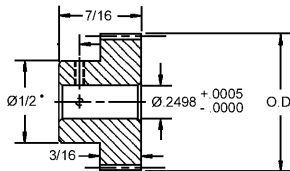
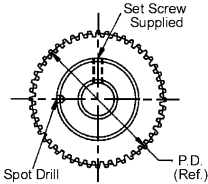
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
F20U20-24	24	1.2000	1.300
F20U20-25	25	1.2500	1.350
F20U20-30	30	1.5000	1.600
F20U20-35	35	1.7500	1.850
F20U20-40	40	2.0000	2.100
F20U20-45	45	2.2500	2.350
F20U20-50	50	2.5000	2.600
F20U20-60	60	3.0000	3.100
F20U20-70	70	3.5000	3.600
F20U20-80	80	4.0000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

For Couplings See Section G.

For Shafts, Bearings and Collars See Section I.

SPUR GEARS

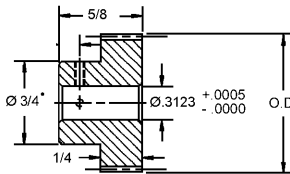
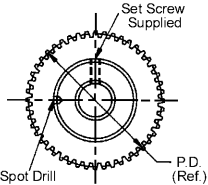
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
20	PIN HUB	1/4"	3/16"	303 STAINLESS STEEL	10	20°



- 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	PRES. ANGLE
20	PIN HUB	5/16"	1/4"	303 STAINLESS STEEL	10	20°



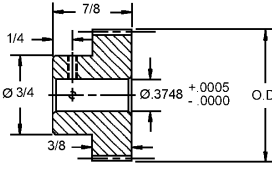
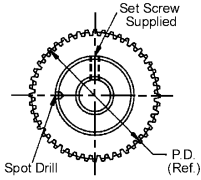
- For 14 - 16 teeth hub diameter equals .57.
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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

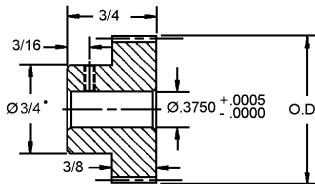
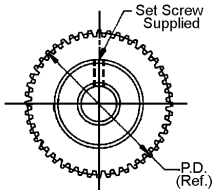
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
20	PIN HUB	3/8"	3/8"	303 STAINLESS STEEL	10	20°



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	PRES. ANGLE
20	PIN HUB	3/8"	3/8"	303 STAINLESS STEEL OR BRONZE ALLOY 464	10	20°

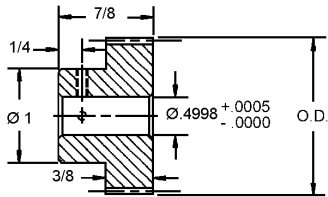
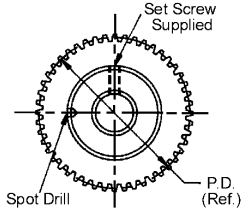


• For 14 - 16 teeth hub diameter equals .57
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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

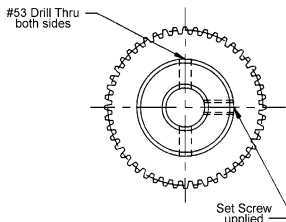
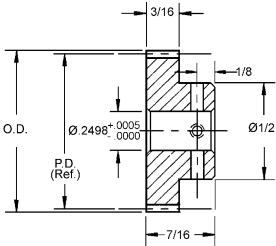
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
20	PIN HUB	1/2"	3/8"	303 STAINLESS STEEL	10	20°



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	PRES. ANGLE
20	PIN HUB	1/4"	3/16"	17-4 PH STAINLESS STEEL RC 32-38	10	20°

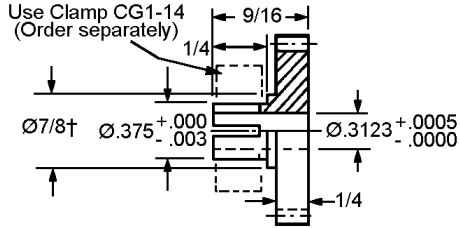
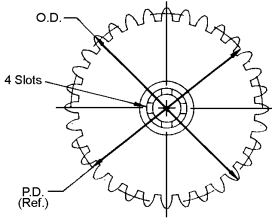


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
P20PH28-12	12	.6000	.700
P20PH28-14	14	.7000	.800
P20PH28-15	15	.7500	.850
P20PH28-16	16	.8000	.900
P20PH28-18	18	.9000	1.000
P20PH28-20	20	1.0000	1.100
P20PH28-24	24	1.2000	1.300
P20PH28-25	25	1.2500	1.350

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

SPUR GEARS

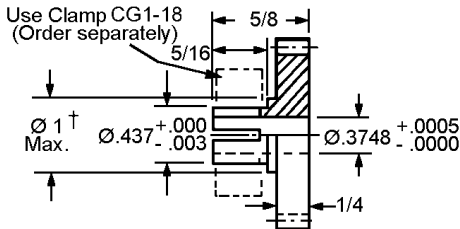
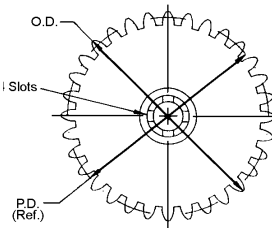
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
20	CLAMP HUB	5/16"	1/4"	303 STAINLESS STEEL	10	20°



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	PRES. ANGLE
20	CLAMP HUB	3/8"	1/4"	303 STAINLESS STEEL	10	20°

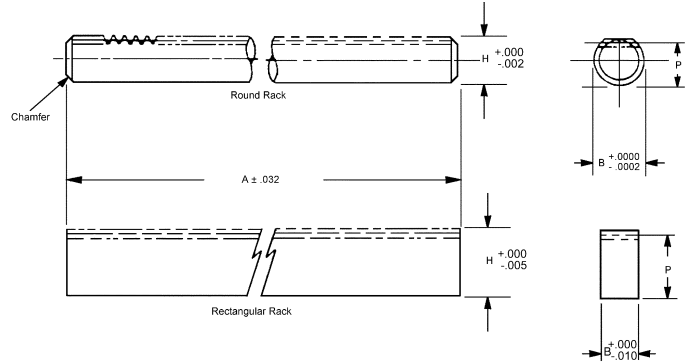


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
C20S25-16	16†	.800	.900
C20S25-20	20	1.000	1.100
C20S25-24	24	1.200	1.300
C20S25-32	32	1.600	1.700
C20S25-40	40	2.000	2.100
C20S25-48	48	2.400	2.500
C20S25-50	50	2.500	2.600
C20S25-55	55	2.750	2.850
C20S25-60	60	3.000	3.100

† 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°

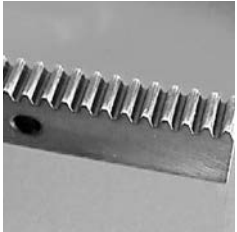
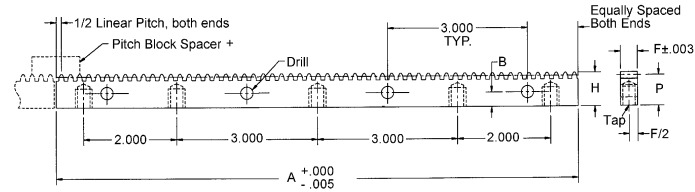


B

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°



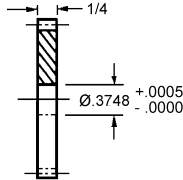
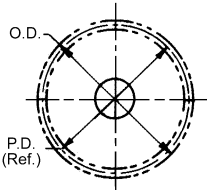
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

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.												
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

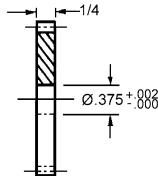
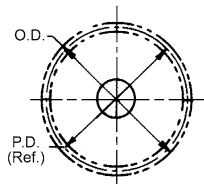
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
24	HUBLESS	3/8"	1/4"	303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED	10	20°



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	PRES. ANGLE
24	HUBLESS	3/8"	1/4"	ALUMINUM RED ANODIZED	8	20°



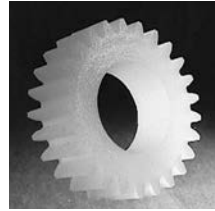
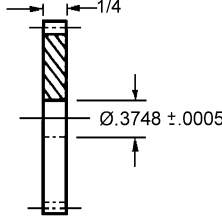
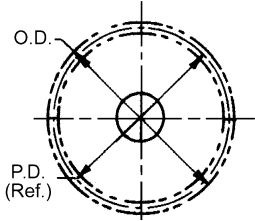
Available on request:
Other numbers of teeth
14-1/2° Pressure Angle

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

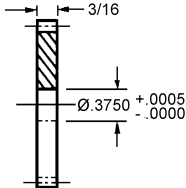
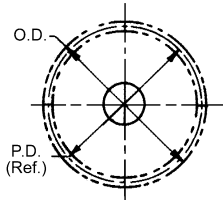
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
24	HUBLESS	3/8"	1/4"	POLYURETHANE	8	20°



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	PRES. 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 GEARS & HUBS

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

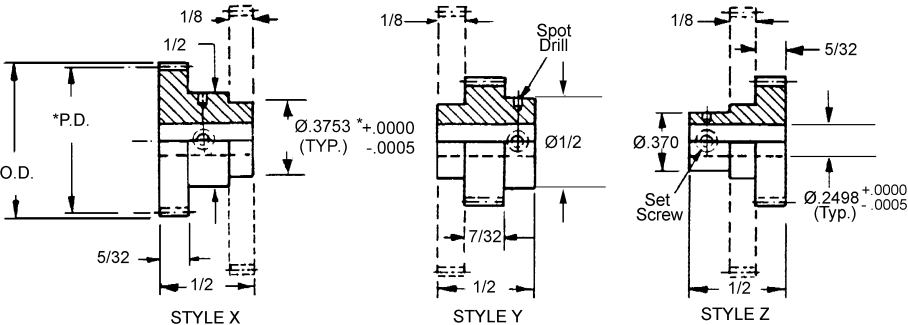
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP24S14-12	24	12	.5000	.583
DP24S14-13		13	.5418	.625
DP24S14-15		15	.6250	.708

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

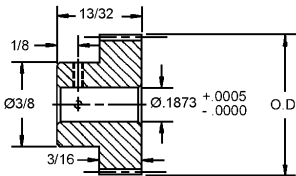
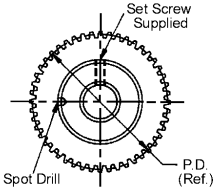


*Concentric within .0003
Order hubless gear separately.

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°



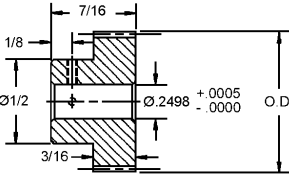
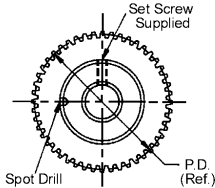
B

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°



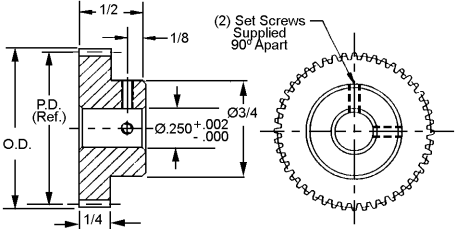
Available on request, other numbers of teeth
and 14-1/2° Pressure Angle.

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

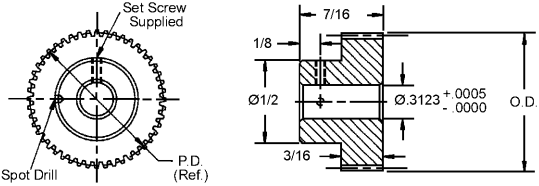
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
24	PIN HUB	1/4"	1/4"	ALUMINUM RED ANODIZED	8	20°



Available on request:
Other numbers of teeth
14 - 1/2" Pressure Angle
For 14-20 teeth
Hub diameter equals Ø.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	PRES. ANGLE
24	PIN HUB	5/16"	3/16"	303 STAINLESS STEEL	10	20°

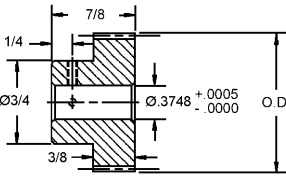
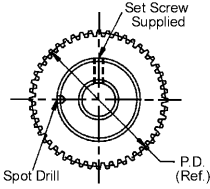


Available on request, other numbers of teeth
and 14-1/2° Pressure Angle.

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

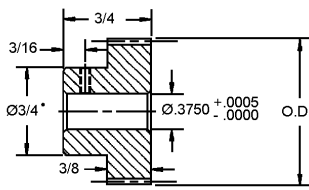
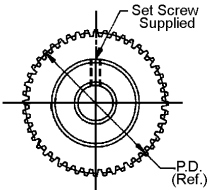
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
24	PIN HUB	3/8"	3/8"	303 STAINLESS STEEL	10	20°



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	PRES. 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.)

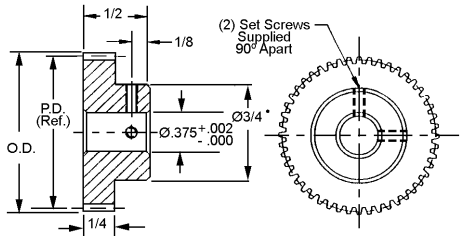
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

303 STAINLESS STEEL	BRONZE ALLOY 464	BERG QUALITY #10		
STOCK NO.	STOCK NO.	NO. OF TEETH	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

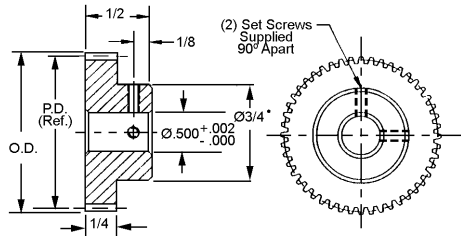
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
24	PIN HUB	3/8"	1/4"	ALUMINUM RED ANODIZED	8	20°



- 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	PRES. ANGLE
24	PIN HUB	1/2"	1/4"	ALUMINUM RED ANODIZED	8	20°



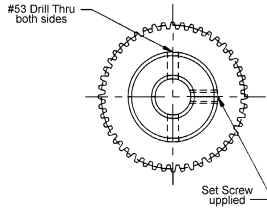
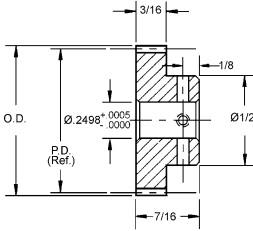
- For 19 - 20 teeth hub diameter is .68
- Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

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

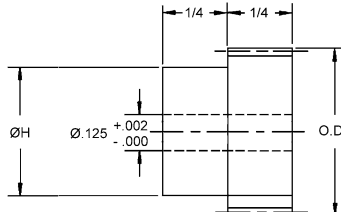
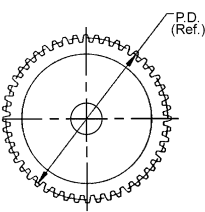
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
24	PIN HUB	1/4"	3/16"	17-4PH STAINLESS STEEL RC 32-38	10	20°



- 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	PRES. ANGLE
24	PIN HUB	1/8"	1/4"	COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM OR BRASS ALLOY 360	5	20°

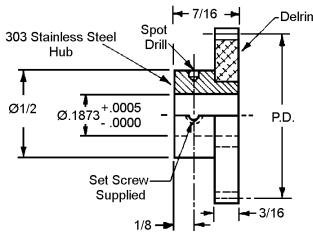


COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM STOCK NO.	BRASS ALLOY 360 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.	H
PX24S-8	PX24B-8	8	.333	.416	.208
PX24S-9	PX24B-9	9	.375	.458	.250
PX24S-10	PX24B-10	10	.417	.500	.291
PX24S-12	PX24B-12	12	.500	.583	.375
PX24S-16	PX24B-16	16	.666	.750	.542
PX24S-18	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	PRES. ANGLE
24	PIN HUB	3/16"	3/16"	DELTRIN WITH STAINLESS STEEL HUB	10	20°



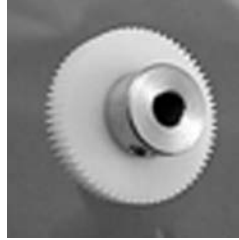
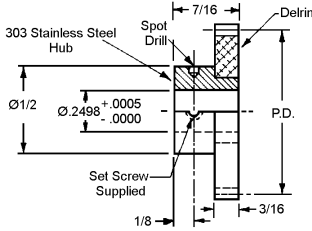
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

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	PRES. ANGLE
24	PIN HUB	1/4"	3/16"	DELTRIN WITH STAINLESS STEEL HUB	10	20°



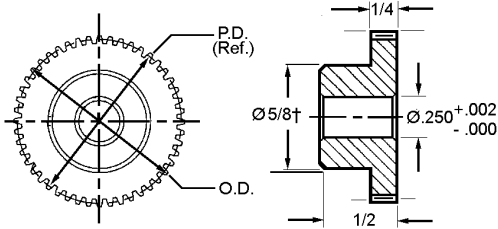
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
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	PRES. ANGLE
24	PIN HUB	1/4"	1/4"	MOLDED ACETAL	5	20°

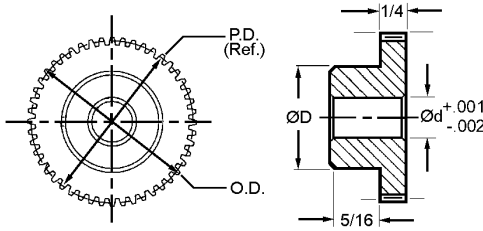


† Teeth runout on hub.
Available on request, other numbers of teeth,
quality 12 and 14-1/2° Pressure Angle.

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	PRES. ANGLE
24	PIN HUB	3/16" TO 5/16"	1/4"	MOLDED DELRIN	5	20°



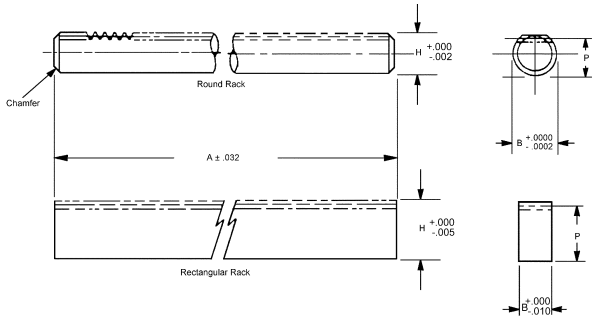
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.	$\varnothing d$	$\varnothing D$
P24D4P-12	12	.500	.583	3/16	3/8
P24D4P-14	14	.583	.667	3/16	7/16
P24D4P-15	15	.625	.709	3/16	31/64
P24D4P-16	16	.667	.750	3/16	31/64
P24D4P-17	17	.709	.791	3/16	35/64
P24D4P-18	18	.750	.833	3/16	35/64
P24D4P-19	19	.791	.875	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

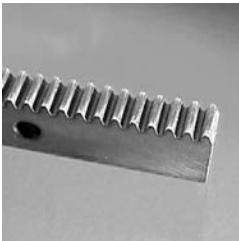
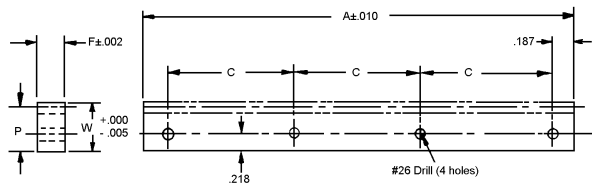
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
24	ROUND & RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



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°

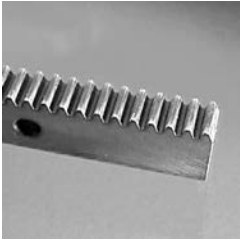
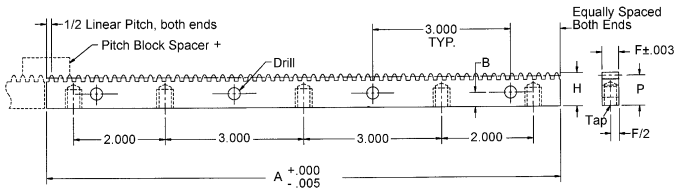


STOCK NO.	MATERIAL	A (Inch)	P (Ref.)	W	F	C
R4-5	STAINLESS ST.	10	.4383	.480	.230	3.208
R4-6	ALUMINUM					

Available on request: special,
modified and custom racks.

GEAR RACKS

PITCH	STYLE	MATERIAL	AGMA QUALITY	PRES. ANGLE
24	RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



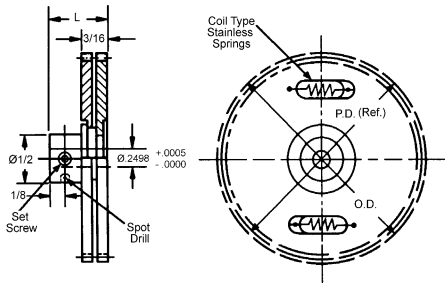
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

RACKS		SPACER											
STOCK NO.	STOCK NO.	AGMA QTY. NO.	MAX ACCUM. ERROR	TOOTH TO TOOTH ERROR	PITCH	LINEAR PITCH	A INCH	P REF.	H $\begin{smallmatrix} +.000 \\ -.005 \end{smallmatrix}$	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	PRES. ANGLE
24	PIN HUB	1/4"	3/16"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

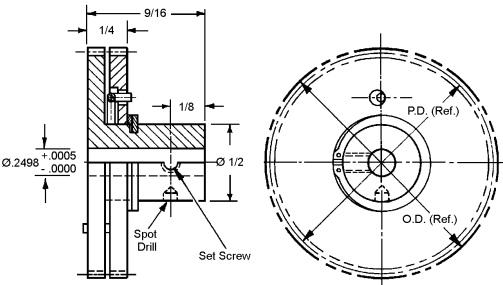
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	L	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AP24MS-24	AP24QS-24	15/32	24	1.0000	1.083
AP24MS-25	AP24QS-25		25	1.0417	1.125
AP24MS-26	AP24QS-26		26	1.0833	1.166
AP24MS-28	AP24QS-28		28	1.1667	1.250
AP24M-30	AP24Q-30		30	1.2500	1.333
AP24M-35	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,
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
24	PIN HUB	1/4"	1/4"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°

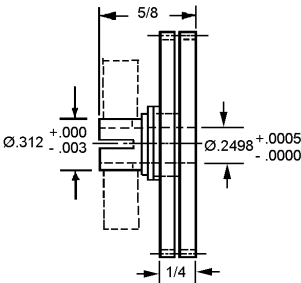


Hub Material: 303 Stainless Steel

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	PRES. ANGLE
24	CLAMP HUB	1/4"	1/4"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



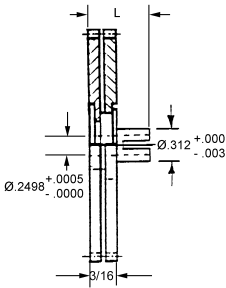
Hub Material: 303 Stainless Steel

STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
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	PRES. ANGLE
24	CLAMP HUB	1/4"	3/16"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



B

Hub Material: 303 Stainless Steel

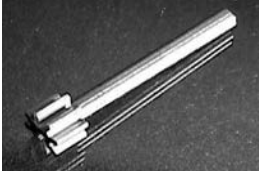
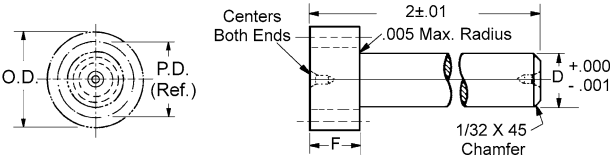
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	L	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC24MS-24	AC24QS-24	15/32	24	1.0000	1.083
AC24MS-25	AC24QS-25		25	1.0417	1.125
AC24MS-26	AC24QS-26		26	1.0833	1.166
AC24MS-28	AC24QS-28		28	1.1667	1.250
AC24M-30	AC24Q-30	27/64	30	1.2500	1.333
AC24M-35	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.

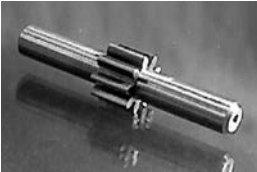
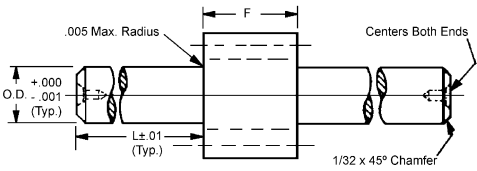
PINION SHAFTS

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



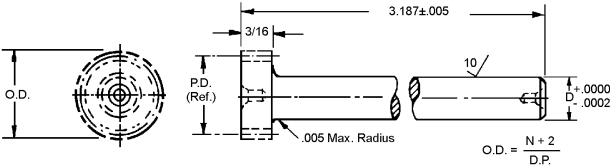
COLD ROLLED STEEL 12L14 OR 12L15 W/SELENIUM STOCK NO.	BRASS ALLOY 360 STOCK NO.	NUMBER OF TEETH	PITCH DIAMETER	OUTSIDE DIAMETER	D	F
PSX24S-8	PSX24B-8	8	.3333	.416	.187	5/16
PSX24S-9	PSX24B-9	9	.3750	.458	.250	
PSX24S-10	PSX24B-10	10	.4167	.500	.250	
PSX24S-12	PSX24B-12	12	.5000	.583	.375	

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		

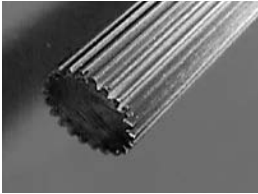
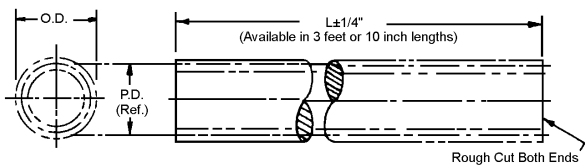
PITCH	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
24	303 STAINLESS STEEL	5	20°



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

SPUR GEAR STOCKS

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

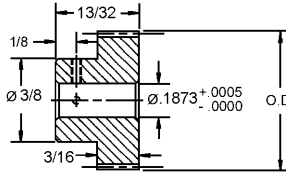
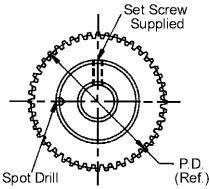


B

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

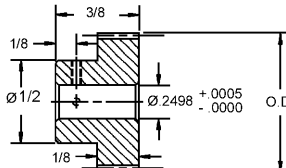
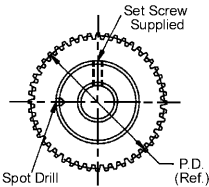
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
1/10	PIN HUB	3/16"	3/16"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



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	PRES. ANGLE
1/10	PIN HUB	1/4"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



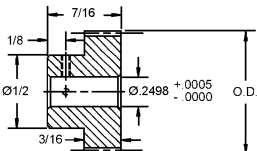
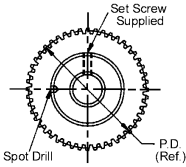
Available on request, other numbers of teeth,
AGMA Quality 12 and 14-1/2° Pressure Angle.

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

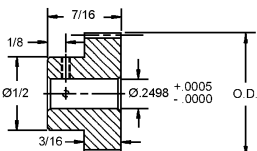
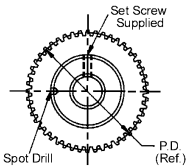
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
1/10	PIN HUB	1/4"	3/16"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



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

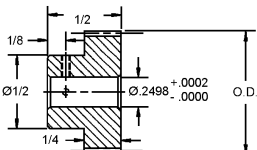
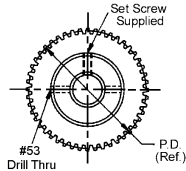
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	BERG QUALITY #10		
		NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
P31S28-20	P31A28-20	20	.6366	.700
P31S28-25	P31A28-25	25	.7957	.859
P31S28-30	P31A28-30	30	.9549	1.018
P31S28-35	P31A28-35	35	1.1140	1.177
P31S28-40	P31A28-40	40	1.2732	1.336
P31S28-45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

PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. 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

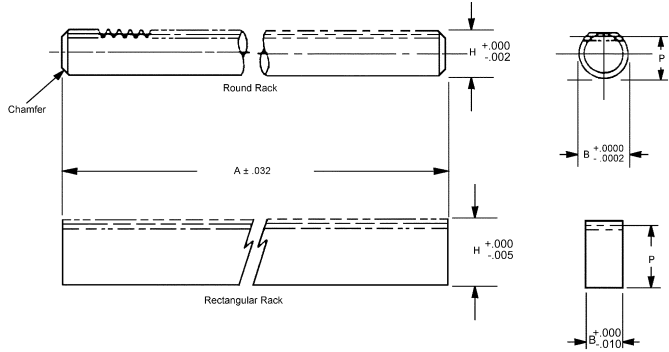
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
1/10	PIN HUB	1/4"	1/4"	17-4PH STAINLESS STEEL HARDENED RC 28-35	13	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
P31PH41-20-Q10	20	.6366	.700
P31PH41-40-Q10	40	1.2732	1.337

GEAR RACKS

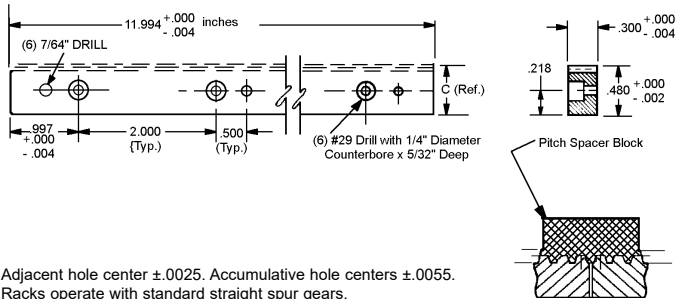
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
1/10	ROUND & RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



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	PRES. ANGLE
1/10	Order With or Without Spacer Block	416 SERIES STAINLESS STEEL RC26-36	10	20°

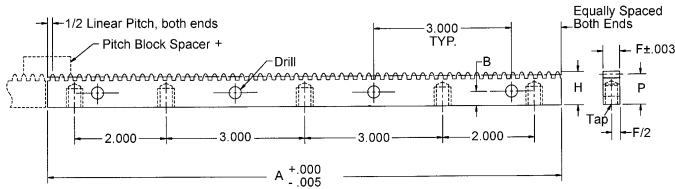


WITHOUT SPACER BLOCK STOCK NO.	SPACER BLOCK STOCK NO.	AGMA QUALITY NO.	TOTAL COMPOSITE ERROR	TOTAL TOOTH ERROR	PITCH PLANE PARALLELISM TO BASE SURFACE	LINEAR PITCH	C REF
R8-2-G1	R8-2-G1-SB	Q10*	.0014	.0005	.0015	1/10	.4480

* Higher quality on request.

GEAR RACKS

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



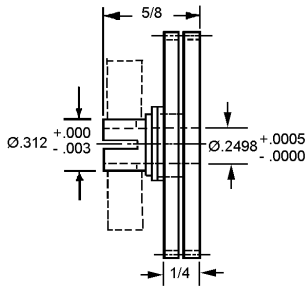
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

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
STOCK NO.	STOCK NO.												
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	PRES. ANGLE
1/10	CLAMP HUB	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



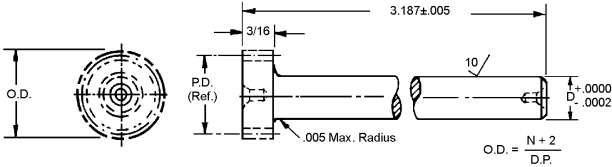
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC31BS-25	AC31DS-25	1/10	25	.7958	.859
AC31BS-30	AC31DS-30		30	.9549	1.018

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°



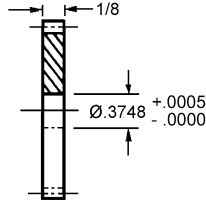
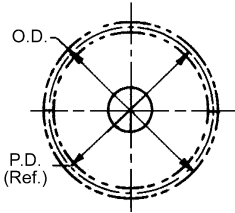
STOCK NO	PITCH	NO. OF TEETH	PITCH DIA.	D
PS31S4-10H	1/10	10	.3183	.2497

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°



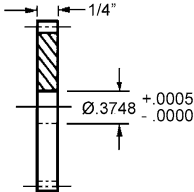
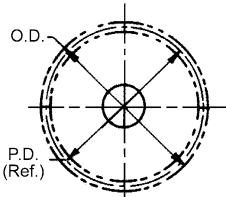
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

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

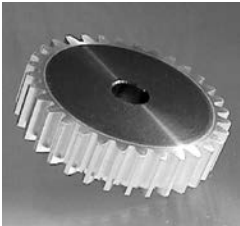
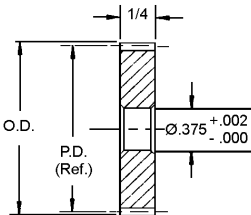
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
32	HUBLESS	3/8"	1/4"	303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED	10	20°



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°

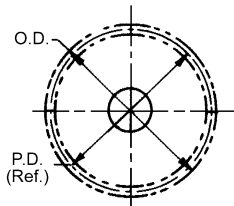


Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

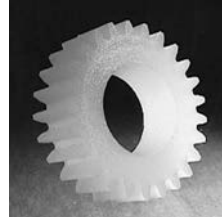
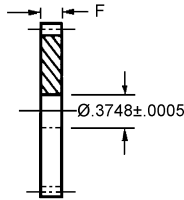
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
F32A77-20	20	.6250	.687
F32A77-24	24	.7500	.812
F32A77-30	30	.9375	1.000
F32A77-32	32	1.0000	1.062
F32A77-36	36	1.1250	1.187
F32A77-40	40	1.2500	1.312
F32A77-48	48	1.5000	1.562
F32A77-56	56	1.7500	1.812
F32A77-60	60	1.8750	1.937
F32A77-64	64	2.0000	2.062
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°

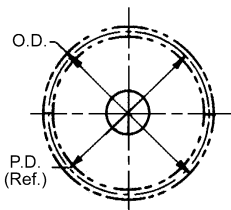


Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

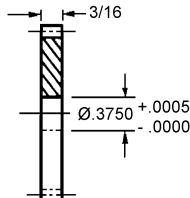


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
F32U3-32	32	1.0000	1.062
F32U3-36	36	1.1250	1.187
F32U3-40	40	1.2500	1.312
F32U3-48	48	1.5000	1.562
F32U3-60	60	1.8750	1.937
F32U3-64	64	2.0000	2.062
F32U3-72	72	2.2500	2.312

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

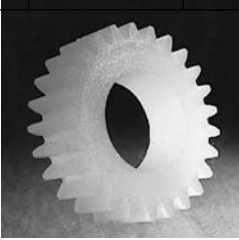
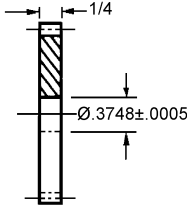
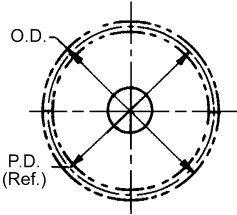


STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
F32D5-20	20	.6250	.687
F32D5-21	21	.6562	.718
F32D5-22	22	.6875	.750
F32D5-23	23	.7187	.781
F32D5-24	24	.7500	.812
F32D5-25	25	.7812	.843
F32D5-26	26	.8125	.875
F32D5-28	28	.8750	.937
F32D5-30	30	.9375	1.000
F32D5-32	32	1.0000	1.062
F32D5-36	36	1.1250	1.187
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 GEARS & HUBS

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
32	X	1/4"	303 STAINLESS STEEL	10	20°

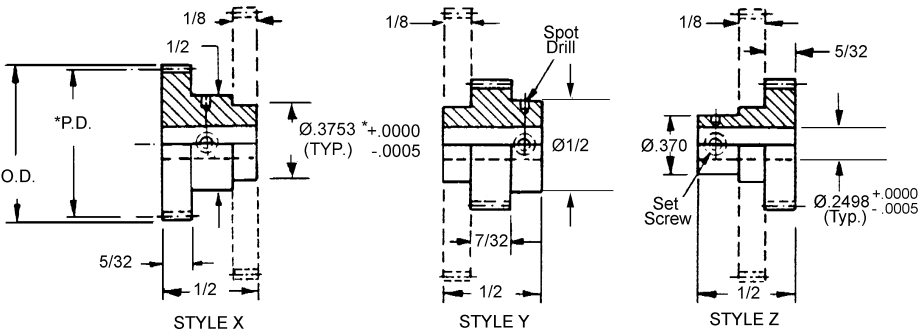
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP32S14-15	32	15	.4688	.531
DP32S14-16		16	.5000	.563
DP32S14-18		18	.5625	.625
DP32S14-19		19	.5983	.656
DP32S14-20		20	.6250	.688

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. 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	PRES. ANGLE
32	Z	1/4"	303 STAINLESS STEEL	10	20°

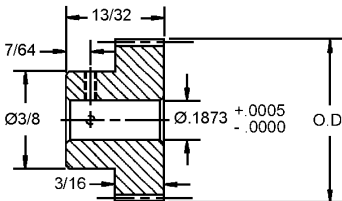
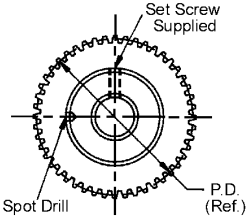
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP32S18-15	32	15	.4688	.531
DP32S18-16		16	.5000	.563
DP32S18-18		18	.5625	.625
DP32S18-19		19	.5983	.656
DP32S18-20		20	.6250	.688



*Concentric within .0003
Order hubless gear separately.

SPUR GEARS

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



B

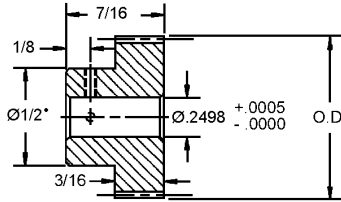
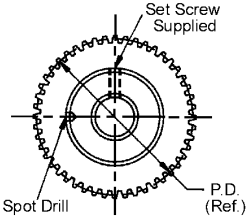
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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	PRES. ANGLE
32	PIN HUB	1/4"	3/16"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



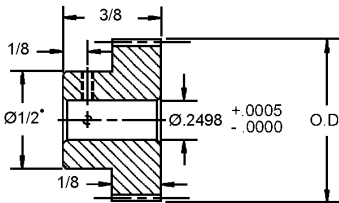
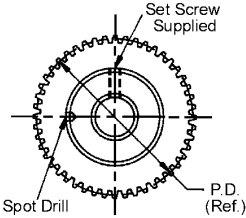
• For tooth counts 17-18 new hub diameter is .44.
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

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	PRES. ANGLE
32	PIN HUB	1/4"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



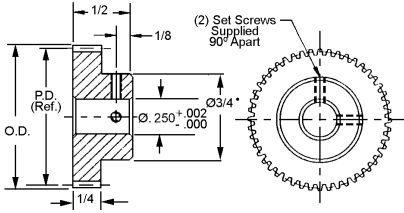
• For 17 - 18 teeth hub diameter equals .45.
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

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

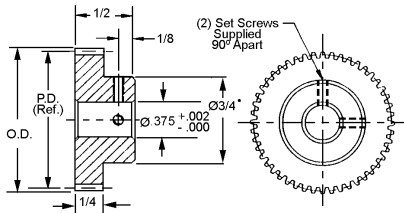
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
32	PIN HUB	1/4"	1/4"	ALUMINUM ANODIZED	8	20°



- For 17 - 26 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	PRES. ANGLE
32	PIN HUB	3/8"	1/4"	ALUMINUM ANODIZED	8	20°

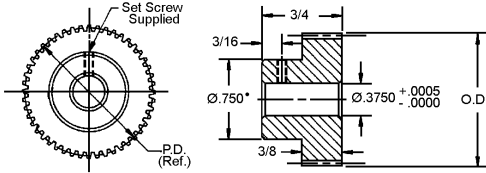


- For 21 - 26 teeth hub diameter equals .57
Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

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	PRES. ANGLE
32	PIN HUB	3/8"	3/8"	303 STAINLESS STEEL OR BRONZE ALLOY 464	10	20°



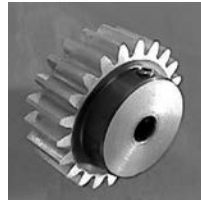
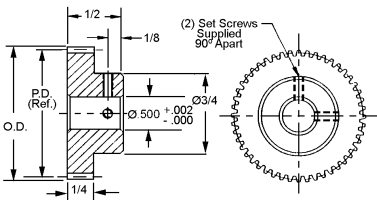
- For 21 - 26 teeth hub diameter equals .57

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.

303 STAINLESS STEEL	BRONZE ALLOY 464	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
STOCK NO.	STOCK NO.			
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	PRES. ANGLE
32	PIN HUB	1/2"	1/4"	ALUMINUM ANODIZED	8	20°

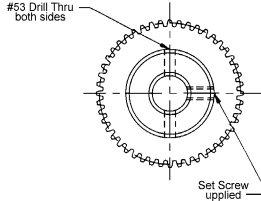
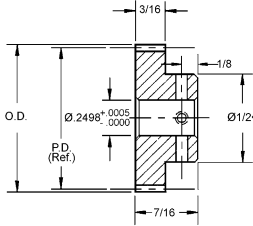


Available on request, other numbers of teeth, quality 12 and 14-1/2° Pressure Angle.

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

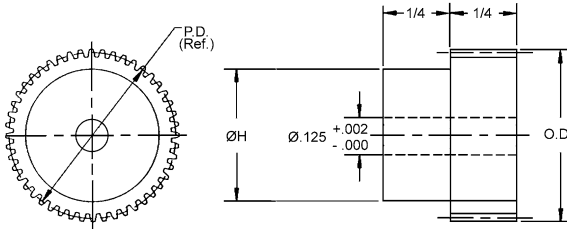
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
32	PIN HUB	1/4"	3/16"	17-4 PH STAINLESS STEEL RC26 - 32	10	20°



- 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

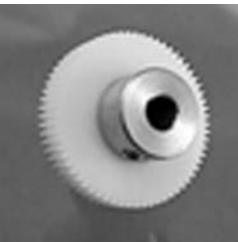
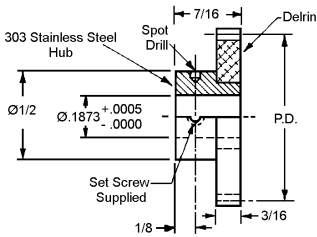
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
32	PIN HUB	1/8"	1/4"	COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM OR BRASS ALLOY 360	5	20°



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	PRES. ANGLE
32	PIN HUB	3/16"	3/16"	DELRIN WITH STAINLESS STEEL HUB	10	20°



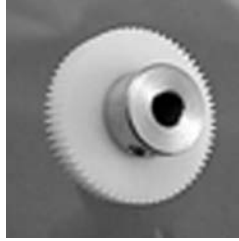
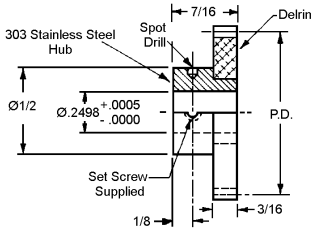
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
P32D21X-20	20	.6250	.687
P32D21X-21	21	.6562	.718
P32D21X-22	22	.6875	.750
P32D21X-23	23	.7187	.781
P32D21X-24	24	.7500	.812
P32D21X-25	25	.7812	.843
P32D21X-26	26	.8125	.875
P32D21X-28	28	.8750	.937
P32D21X-30	30	.9375	1.000
P32D21X-32	32	1.0000	1.062
P32D21X-36	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	PRES. ANGLE
32	PIN HUB	1/4"	3/16"	DELTRIN WITH STAINLESS STEEL HUB	10	20°



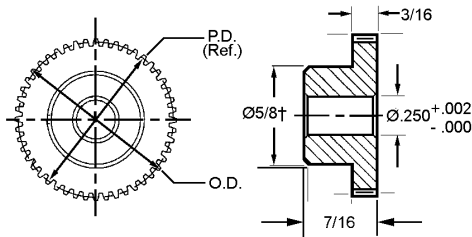
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
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	PRES. ANGLE
32	PIN HUB	1/4"	3/16"	MOLDED ACETAL	5	20°

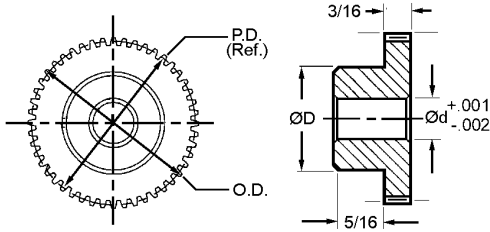


† Teeth runout on hub.
Available on request, other bore sizes and
numbers of teeth on request.

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	PRES. ANGLE
32	PIN HUB	5/32" TO 5/16"	3/16"	MOLDED DELRIN	5	20°



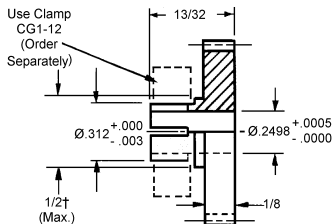
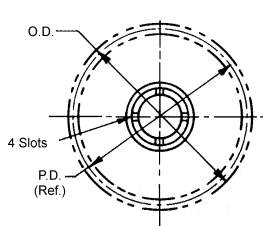
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.	Ød	ØD
P32D4P-12	12	.375	.438	5/32	9/32
P32D4P-14	14	.438	.500	5/32	5/16
P32D4P-15	15	.469	.532	5/32	5/16
P32D4P-16	16	.500	.562	5/32	11/32
P32D4P-18	18	.562	.625	5/32	11/32
P32D4P-20	20	.625	.688	3/16	15/32
P32D4P-22	22	.688	.750	3/16	1/2
P32D4P-24	24	.750	.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.

B

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



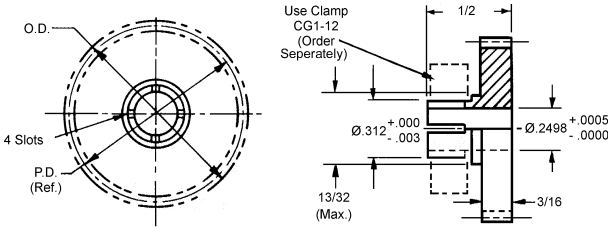
† Teeth may runout on flange diameter.
Available on request, other numbers of teeth,
AGMA Quality 12 and 14-1/2° Pressure Angle.

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	PRES. ANGLE
32	CLAMP HUB	1/4"	3/16"	303 STAINLESS STEEL	10	20°



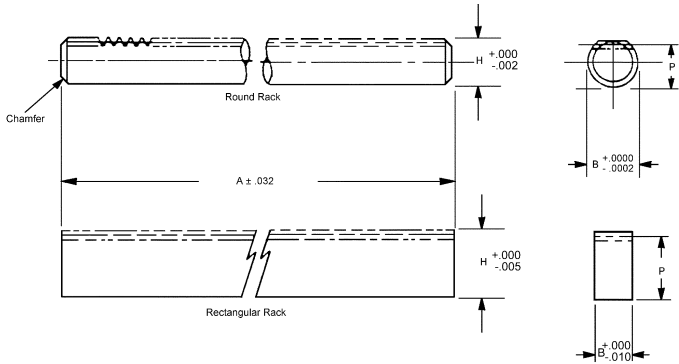
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

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°

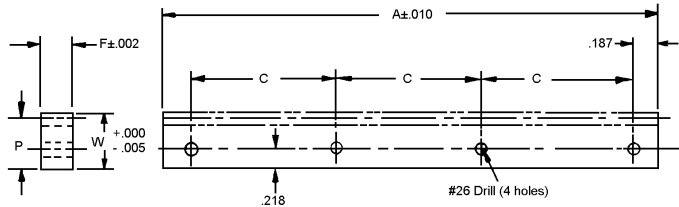


B

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°



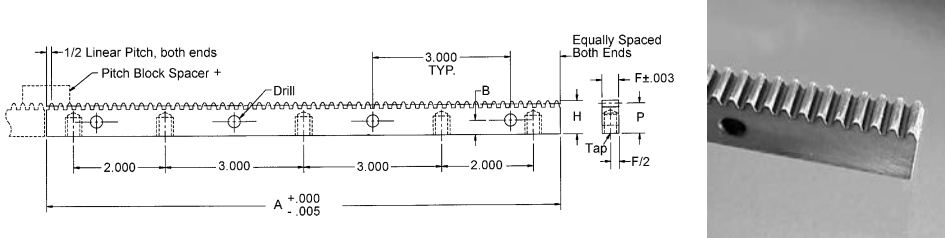
STOCK NO.	MATERIAL	A (Inch)	P (Ref.)	W	F	C
R4-9	STAINLESS ST.	10	.4487	.480	.230	3.208
R4-10	ALUMINUM					

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°



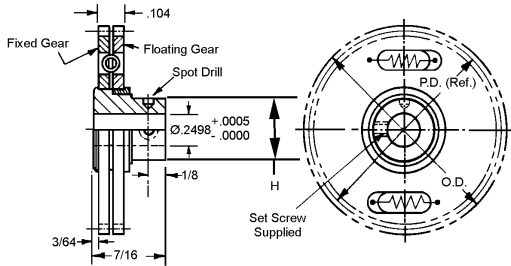
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

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
STOCK NO.	STOCK NO.												
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°



B

Hub Material: 303 Stainless Steel

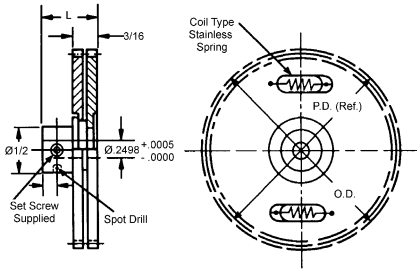
STAINLESS STEEL STOCK NO.	ALUMINUM ANODIZED STOCK NO.	NO.OF TEETH	PITCH DIA.	OUTSIDE DIA.	SPRING STYLE	H
AP32ES-20	-	20	.6250	.687	SCISSOR	3/8
AP32ES-24	AP32RS-24	24	.7500	.812		
AP32ES-28	AP32RS-28	28	.8750	.937		
AP32ES-30	AP32RS-30	30	.9375	1.000		
AP32ES-32	AP32RS-32	32	1.0000	1.062		
AP32ES-36	AP32RS-36	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;
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

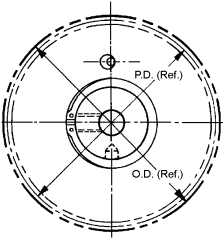
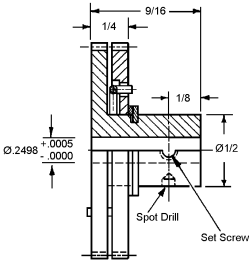
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	L	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AP32MS-32	AP32QS-32	15/32	32	1.000	1.062
AP32MS-34	AP32QS-34		34	1.062	1.125
AP32MS-36	AP32QS-36		36	1.125	1.187
AP32MS-38	AP32QS-38		38	1.187	1.250
AP32M-40	AP32Q-40	27/64	40	1.250	1.312
AP32M-45	AP32Q-45		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

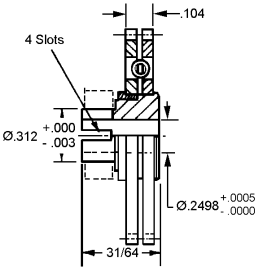
STAINLESS STEEL STOCK NO.	ALUMINUM ANODIZED STOCK NO.	PITCH	NO.OF TEETH	PITCH DIA.	OUTSIDE DIA.
AP32BS-24	AP32DS-24	32	24	.7500	.813
AP32BS-28	AP32DS-28		28	.8750	.938
AP32BS-32	AP32DS-32		32	1.0000	1.063

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 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
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	

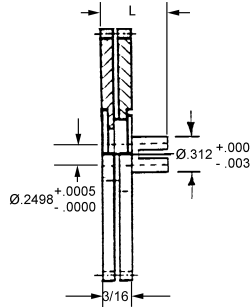
Available on request:

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 HUB	1/4"	3/16"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°

Hub Material: 303 Stainless Steel

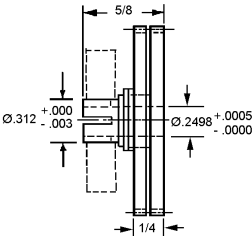


303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	L	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC32MS-32	AC32QS-32	15/32	32	1.000	1.062
AC32MS-34	AC32QS-34		34	1.062	1.125
AC32MS-36	AC32QS-36		36	1.125	1.187
AC32MS-38	AC32QS-38		38	1.187	1.250
AC32M-40	AC32Q-40		40	1.250	1.312
AC32M-45	AC32Q-45	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 HUB	1/4"	1/4"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303
Stainless Steel

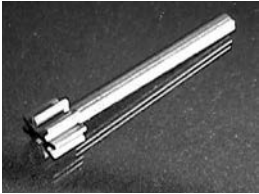
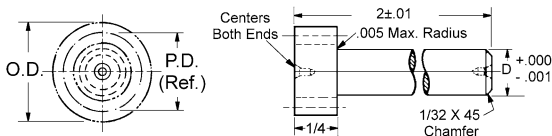
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC32BS-24	AC32DS-24	32	24	.7500	.813
AC32BS-28	AC32DS-28		28	.8750	.938
AC32BS-32	AC32DS-32		32	1.0000	1.063

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.

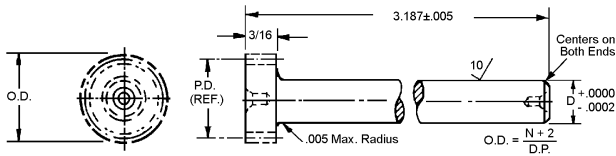
PINION SHAFTS

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

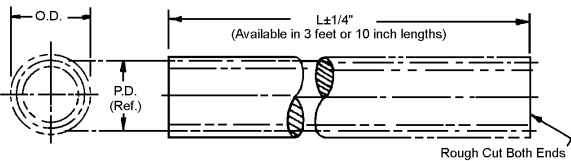
PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
32	303 STAINLESS STEEL	10	20°



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 STOCKS

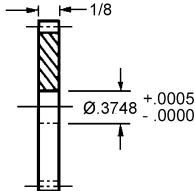
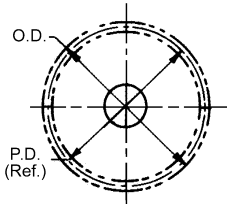
PITCH	TYPE	MATERIAL	AGMA QUALITY	PRES. ANGLE
32	PINION WIRE	BRASS AND COLD ROLLED STEEL	4	20°



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	PRES. ANGLE
48	HUBLESS	3/8"	1/8"	303 STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED	10	20°



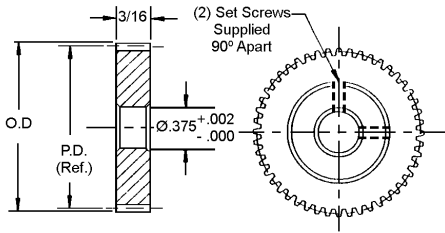
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2" Pressure Angle

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

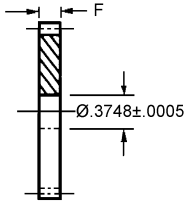
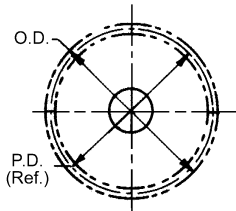
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
48	HUBLESS	3/8"	3/16"	ALUMINUM GOLD ANODIZED	8	20°



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	PRES. ANGLE
48	HUBLESS	3/8"	1/8" AND 1/4"	POLYURETHANE	8	20°

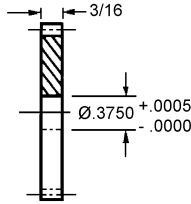
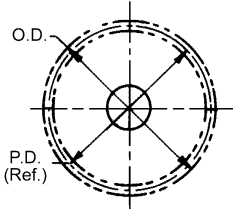


Available on request:
Other numbers of teeth
14 - 1/2° Pressure Angle

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	PRES. ANGLE
48	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.
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 GEARS & HUBS

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

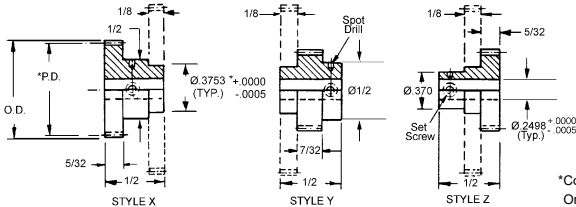
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP48S14-20	48	20	.4166	.458
DP48S14-21		21	.4375	.479
DP48S14-22		22	.4583	.500
DP48S14-23		23	.4791	.521
DP48S14-24		24	.5000	.542
DP48S14-25		25	.5208	.563
DP48S14-26		26	.5416	.583
DP48S14-30		30	.6250	.667
DP48S14-32		32	.6666	.708
DP48S14-40		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 GEARS & HUBS

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

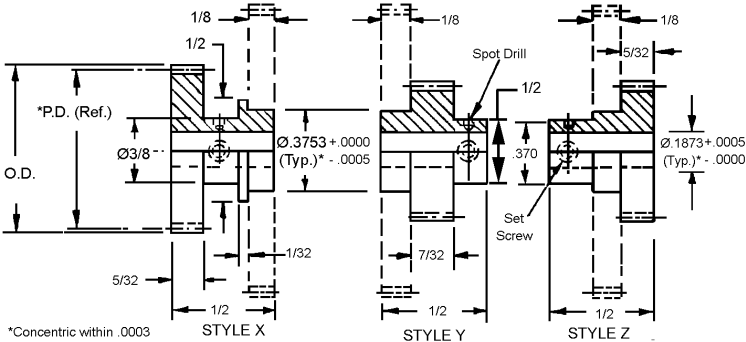
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP48S8-20	48	20	.4166	.458
DP48S8-21		21	.4375	.479
DP48S8-23		23	.4701	.521
DP48S8-24		24	.5000	.542
DP48S8-40		40	.8333	.875

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°

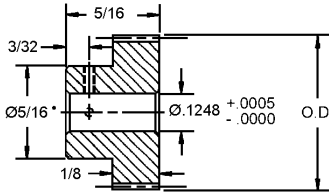
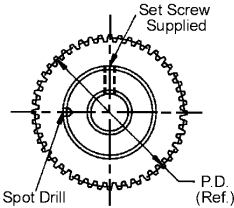
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP48S12-20	48	20	.4166	.458
DP48S12-21		21	.4375	.479
DP48S12-23		23	.4701	.521
DP48S12-24		24	.5000	.542
DP48S12-40		40	.8333	.875



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	PRES. ANGLE
48	PIN HUB	1/8"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



B

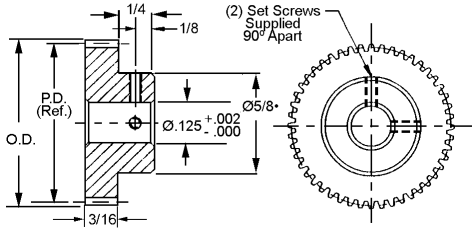
• For 14-15 teeth hub diameter equals .23
Available on request, other numbers of
teeth and 14-1/2° Pressure Angle.

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	PRES.ANGLE
48	PIN HUB	1/8"	3/16"	ALUMINUM ANODIZED	8	20°



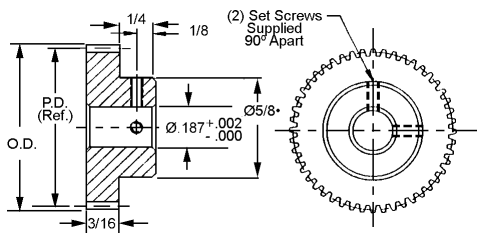
- For 16-32 teeth hub diameter equals .27
- Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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	PRES. ANGLE
48	PIN HUB	3/16"	3/16"	ALUMINUM ANODIZED	8	20°



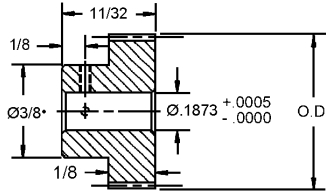
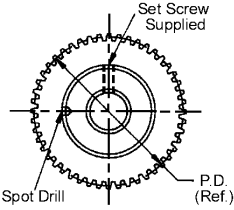
- For 19-32 teeth hub diameter equals .34
- Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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	PRES. 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.

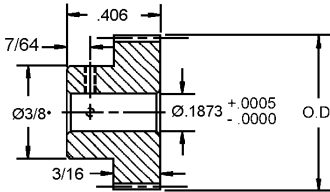
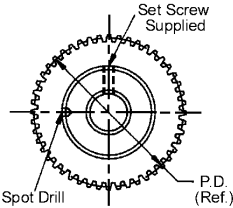
X in part number indicates part may be
supplied as two piece construction (some
dimensions may vary).

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	PRES. ANGLE
48	PIN HUB	3/16"	3/16"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



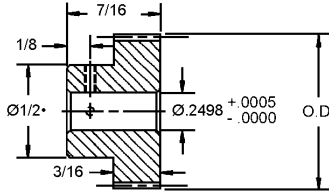
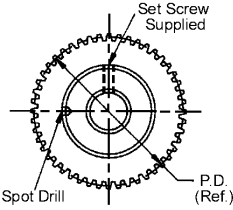
• For 19-20 teeth hub diameter equals .34
Available on request, other numbers of
teeth, AGMA quality 12 and 14, and 14-1/2°
Pressure Angle.

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	PRES. ANGLE
48	PIN HUB	1/4"	3/16"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



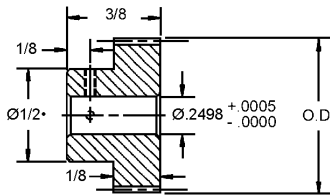
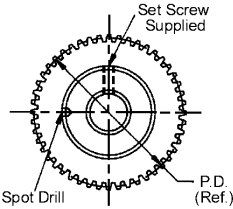
- For 24-26 teeth hub diameter equals .44
- Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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	PRES. ANGLE
48	PIN HUB	1/4"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



B

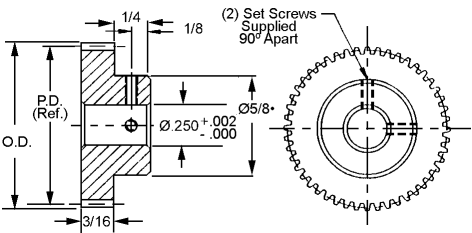
• For 24-26 teeth hub diameter equals .44
Available on request, other numbers of
teeth, AGMA quality 12 and 14, and 14-1/2°
Pressure Angle.

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	PRES. 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.

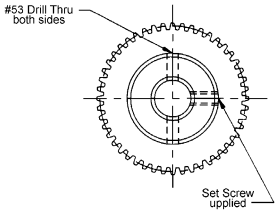
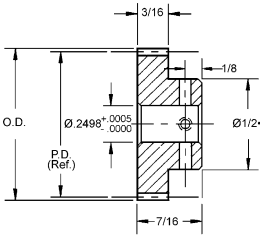
- For tooth counts 22-32 new hub diameter is .40.

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

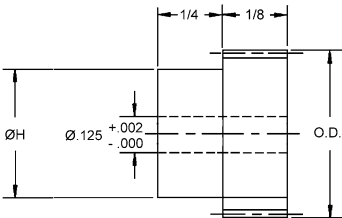
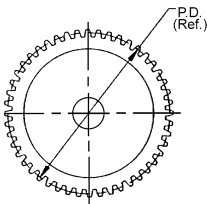
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
48	PIN HUB	1/4"	3/16"	17-4 PH STAINLESS STEEL RC26-32	10	20°



- 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

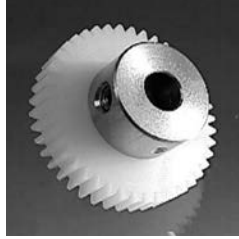
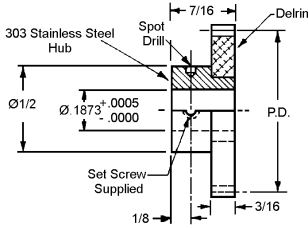
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
48	PIN HUB	1/8"	COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM OR BRASS ALLOY 360	10	20°



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	PRES. ANGLE
48	PIN HUB	3/16"	3/16"	DELIRIN WITH STAINLESS STEEL HUB	10	20°



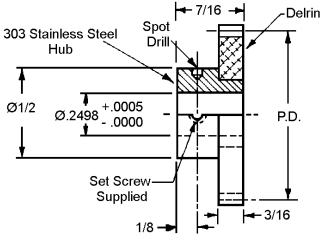
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

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	PRES. ANGLE
48	PIN HUB	1/4"	3/16"	DELTRIN WITH STAINLESS STEEL HUB	10	20°



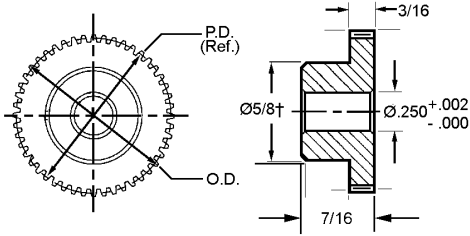
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
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°



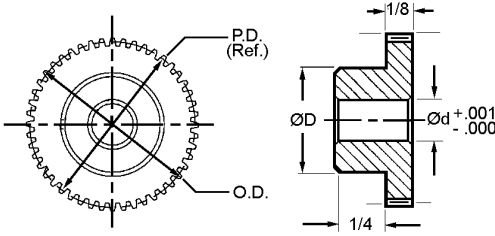
† Teeth runout on hub.

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

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°



B

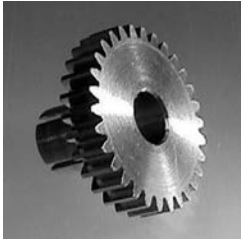
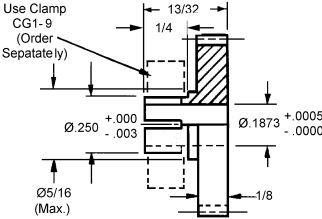
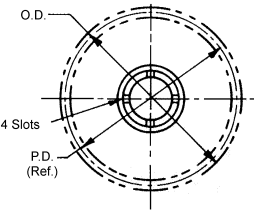
STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.	Ød	ØD
P48D4P-18	18	.375	.417	5/32	5/16
P48D4P-19	19	.396	.438	5/32	5/16
P48D4P-20	20	.417	.458	5/32	11/32
P48D4P-21	21	.438	.479	5/32	11/32
P48D4P-22	22	.458	.500	5/32	3/8
P48D4P-23	23	.479	.521	5/32	3/8
P48D4P-24	24	.500	.542	5/32	13/32
P48D4P-25	25	.521	.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 HUB	3/16"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



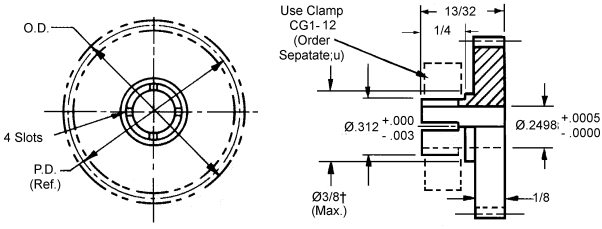
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.
X in part number indicates part may be supplied
in two piece construction with stainless steel hub
(some dimensions may vary).

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 HUB	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.

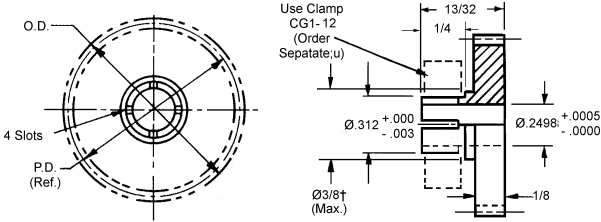
X in part number indicates part may be supplied in two piece construction with stainless steel hub (some dimensions may vary).

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 HUB	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.

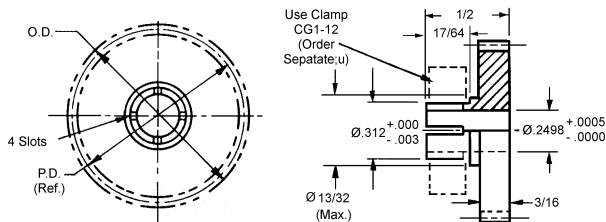
X in part number indicates part may be supplied in two piece construction with stainless steel hub (some dimensions may vary).

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.

B

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



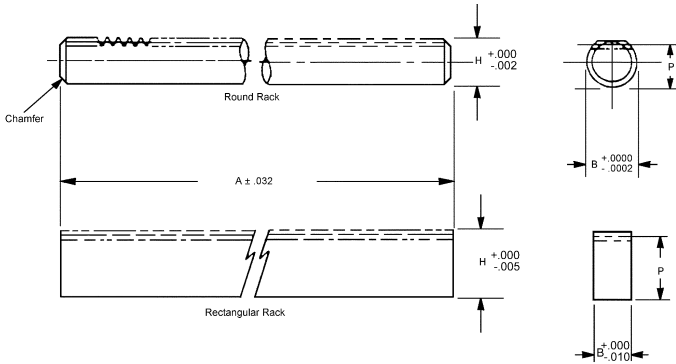
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

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

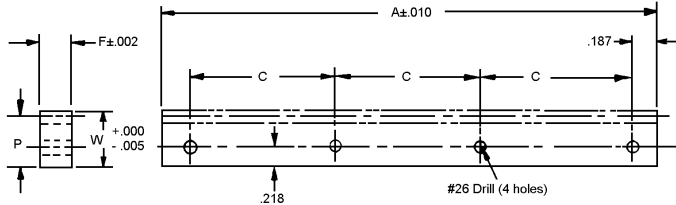
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
48	ROUND & RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



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°

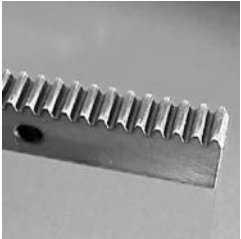
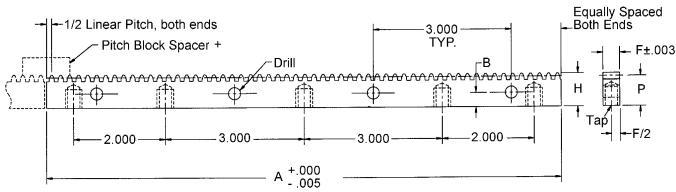


STOCK NO.	MATERIAL	A (Inch)	P (Ref.)	W	F	C
R4-11	STAINLESS ST.	9	.4592	.480	.230	2.879
R4-12	ALUMINUM					

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°



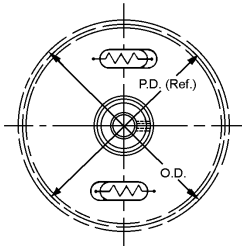
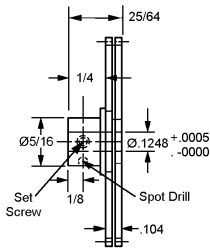
†Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

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
STOCK NO.	STOCK NO.												
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

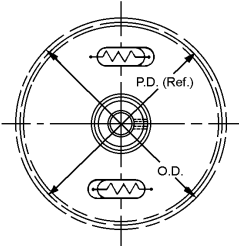
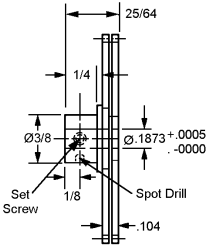
Available on request:

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

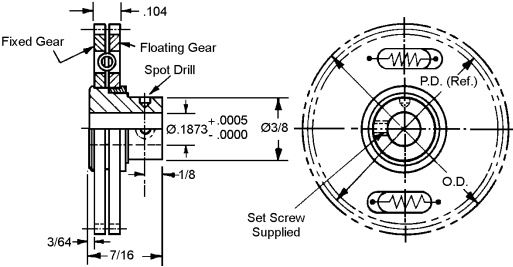
Available on request:

- 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	
AP48CS-44	AP48PS-42	42	.8750	.916	
AP48C-48	AP48P-48	48	1.0000	1.041	COIL
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	

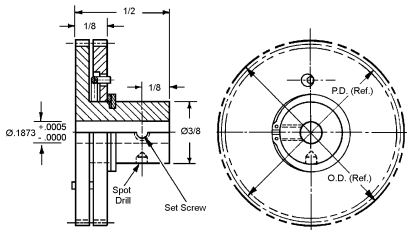
Available on request:

- 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

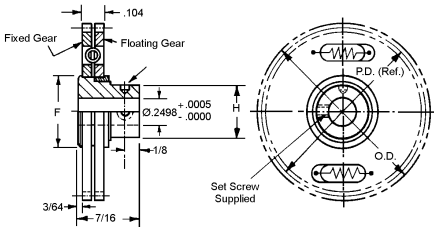
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRES. ANGLE
48	PIN HUB	3/16"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



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	COIL	7/16
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		
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		

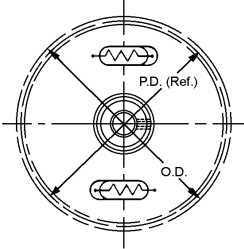
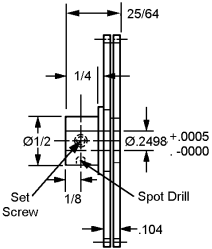
Available on request:

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

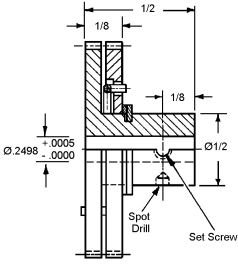
Available on request:

- 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°



B

Hub Material:
303 Stainless Steel

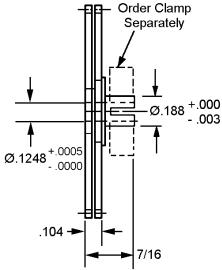
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AP48KS-32	AP48LS-32	32		.6666	.708
AP48KS-36	AP48LS-36	36		.7500	.792
AP48KS-48	AP48LS-48	48	.2498	1.0000	1.042

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 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
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

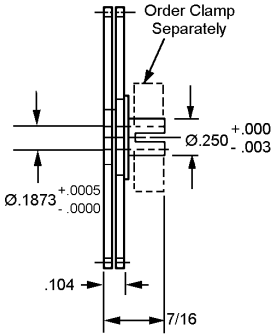
Available on request:

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 HUB	3/16"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

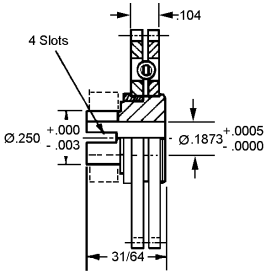
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER
AC48US-46	AC48VS-46	46	.9583
AC48US-48	AC48VS-48	48	1.0000
AC48US-50	AC48VS-50	50	1.0416
AC48US-55	AC48VS-55	55	1.1458
AC48US-56	AC48VS-56	56	1.1666
AC48US-60	AC48VS-60	60	1.2500
AC48US-64	AC48VS-64	64	1.3333
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 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
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	COIL
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	

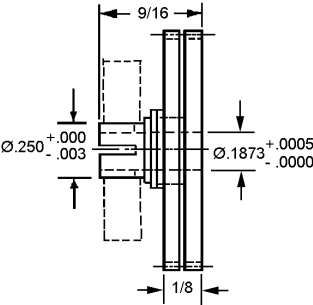
Available on request:

- 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 HUB	3/16"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



B

Hub Material:
303 Stainless Steel

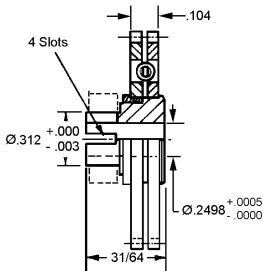
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AC48HS-30	AC48JS-30	48	30	.6250	.666
AC48HS-32	AC48JS-32		32	.6666	.708
AC48HS-36	AC48JS-36		36	.7500	.792
AC48HS-48	AC48JS-48		48	1.0000	1.042

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 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
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	COIL
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	

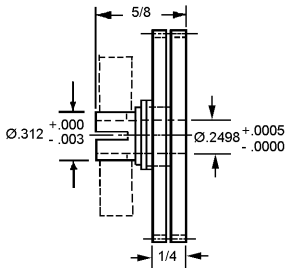
Available on request:

- 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 HUB	1/4"	1/4"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



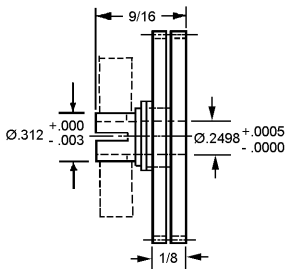
B

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

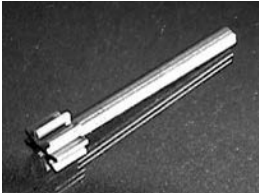
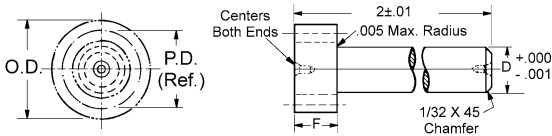
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC48KS-32	AC48LS-32	32	.6666	.708
AC48KS-36	AC48LS-36	36	.7500	.792
AC48KS-48	AC48LS-48	48	1.0000	1.042

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.

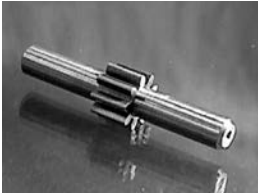
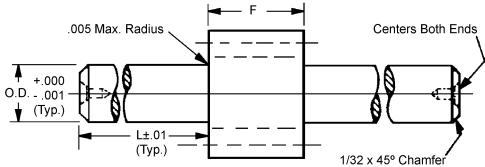
PINION SHAFTS

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	

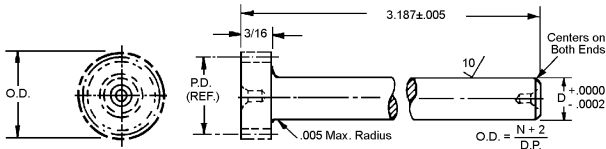
PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
48	BRASS AND COLD ROLLED STEEL	5	20°



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		

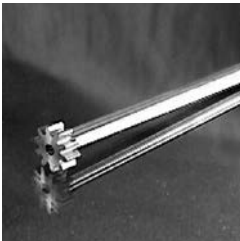
PINION SHAFTS

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



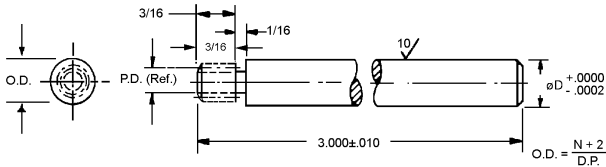
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS48S3-12H	48	12	.2500	.1872
PS48S4-12H		12	.2500	.2497
PS48S4-14H		14	.2917	.2497
PS48S4-16H		16	.3333	.2497
PS48S4-18H		18	.3750	.2497
PS48S4-20H		20	.4166	.2497
PS48S4-24H		24	.5000	.2497

Other numbers of teeth available on request.



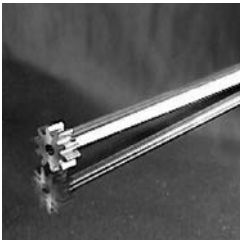
B

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

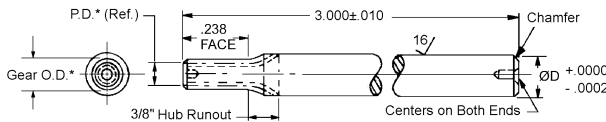


STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS48S4-10	48	10	.2083	.2497

Other numbers of teeth available on request.

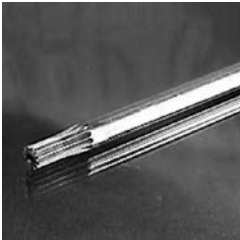


PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
48	303 STAINLESS STEEL	10	20°



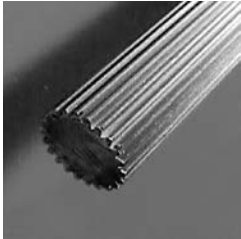
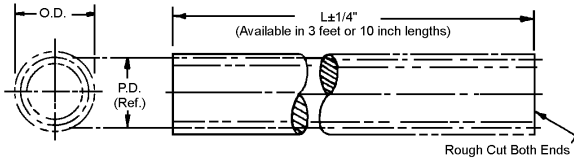
STOCK NO.	PITCH	NO. OF TEETH	D	ENLARGED	
				PITCH DIAMETER	OUTSIDE DIA.
B-PS48S5-10	48	10	.3122	.2256	.267
B-PS48S5-11		11		.2440	.285
B-PS48S5-12		12		.2624	.304

Other numbers of teeth available on request.



SPUR GEAR STOCKS

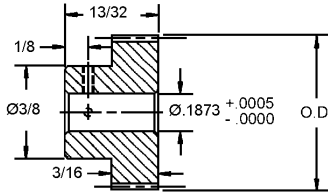
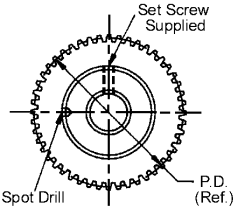
PITCH	TYPE	MATERIAL	PRESSURE ANGLE
48	PINION WIRE	BRASS AND COLD ROLLED STEEL	20°



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

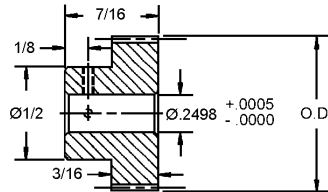
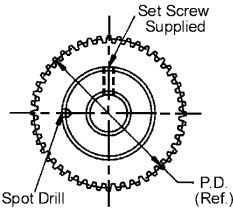
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
1/20	PIN HUB	3/16"	3/16"	303 STAINLESS STEEL	10	20°



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°



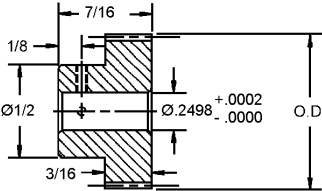
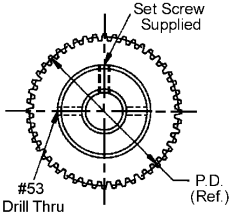
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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.

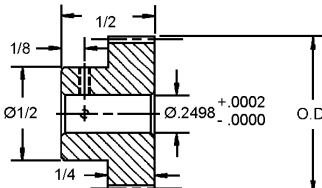
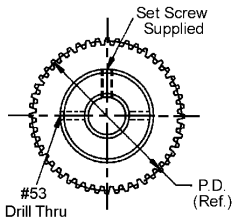
SPUR GEARS

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

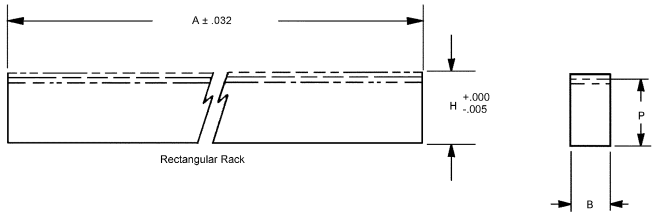
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
1/20	PIN HUB	1/4"	1/4"	17-4 PH STAINLESS STEEL HARDENED RC 28-35	10	20°



STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
P62PH41-40-Q10	40	.6366	.668
P62PH41-80-Q10	80	1.2732	1.305

GEAR RACKS

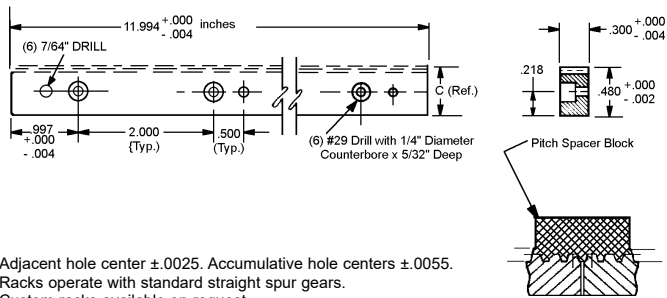
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
1/20	RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



STOCK NO.	RACK STYLE	PITCH	P (Ref.)	B	A	H	AGMA QUALITY
R2-13	RECTANGULAR	1/20	.4641	.230 $\pm .005$	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°



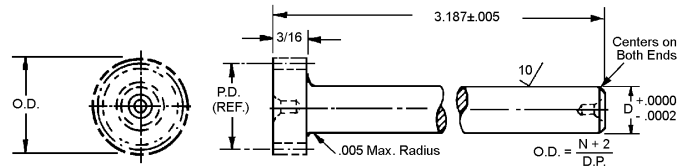
Adjacent hole center $\pm .0025$. Accumulative hole centers $\pm .0055$.
Racks operate with standard straight spur gears.
Custom racks available on request.

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.

PINION SHAFTS

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

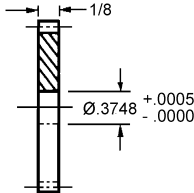
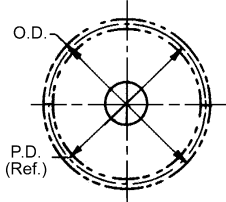


STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS62S4-20H	1/20	20	.3183	.2497

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°



B

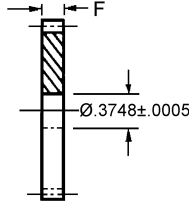
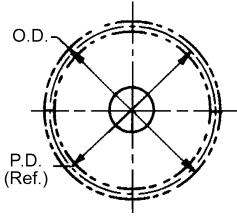
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2" Pressure Angle

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

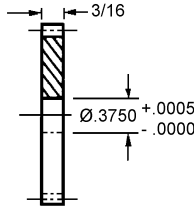
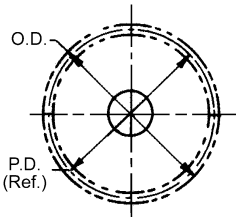
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
64	HUBLESS	3/8"	1/8" & 1/4"	POLYURETHANE	10	20°



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"	DELRIN	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 GEARS & HUBS

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
64	X	1/4"	303 STAINLESS STEEL	10	20°

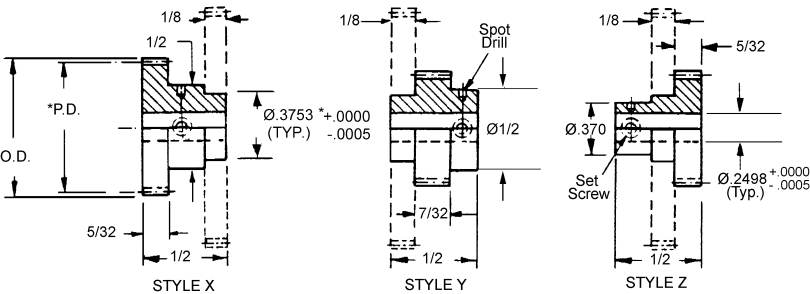
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP64S14-27	64	27	.4218	.453
DP64S14-28		28	.4375	.469
DP64S14-30		30	.4687	.500
DP64S14-32		32	.5000	.531
DP64S14-34		34	.5312	.563
DP64S14-36		36	.5625	.594
DP64S14-40		40	.6250	.656
DP64S14-50		50	.7812	.812

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. 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	PRES. 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 GEARS & HUBS

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
64	X	3/16"	303 STAINLESS STEEL	10	20°

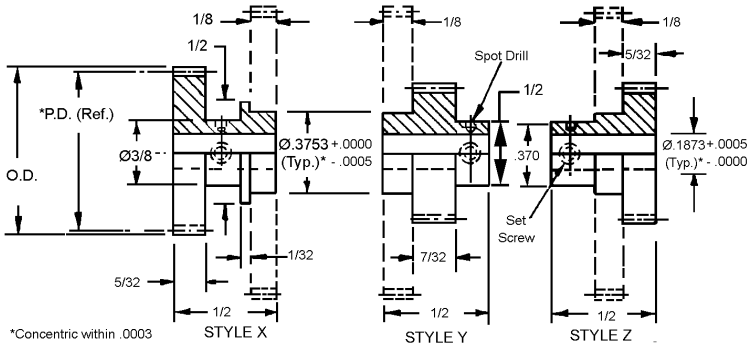
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP64S8-25	64	25	.3906	.422
DP64S8-26		26	.4062	.438
DP64S8-28		28	.4375	.469
DP64S8-30		30	.4687	.500
DP64S8-31		31	.4843	.516
DP64S8-32		32	.4531	.531
DP64S8-40		40	.6250	.656

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. 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	PRES. ANGLE
64	Z	3/16"	303 STAINLESS STEEL	10	20°

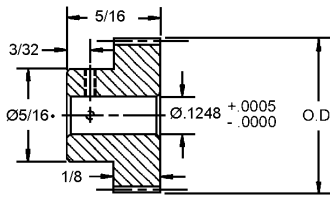
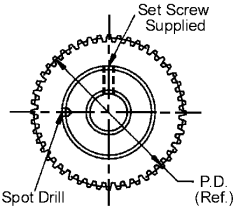
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
•DP64S12-25	64	25	.3906	.422
•DP64S12-26		26	.4062	.438
DP64S12-28		28	.4375	.469
DP64S12-30		30	.4687	.500
DP64S12-31		31	.4843	.516
DP64S12-32		32	.4531	.531
DP64S12-40		40	.6250	.656



• 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°



B

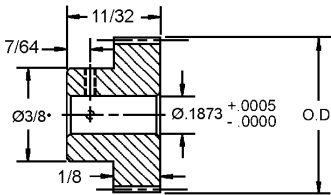
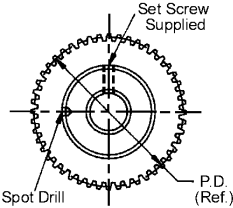
• For 18-23 teeth hub diameter equals .23
Available on request, other numbers of
teeth and 14-1/2° Pressure Angle.

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°



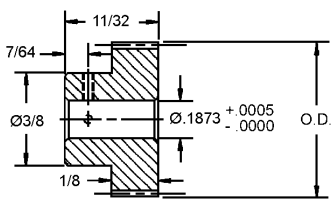
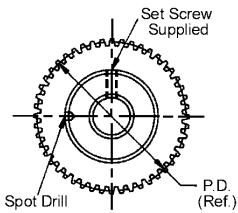
- For 25-26 teeth hub diameter equals .34
- Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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°



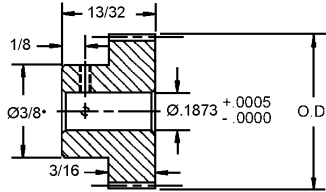
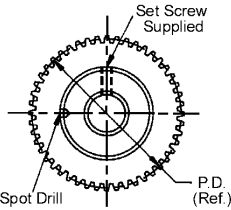
• For 25-26 teeth hub diameter equals .34
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.
X in part number indicates part may be supplied as two piece construction (some dimensions may vary).

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°



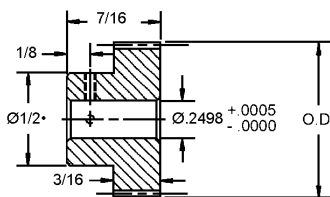
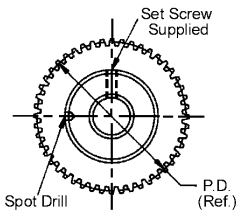
- For 25-26 teeth hub diameter equals .34
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

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°



B

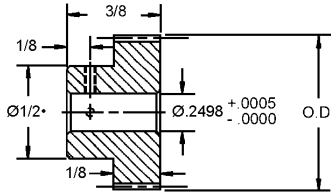
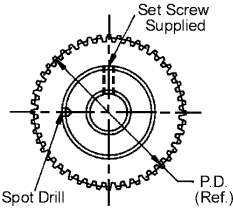
• For 31-34 teeth hub diameter equals .44
Available on request, other numbers of
teeth, AGMA quality 12 and 14, and 14-1/2°
Pressure Angle.

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°



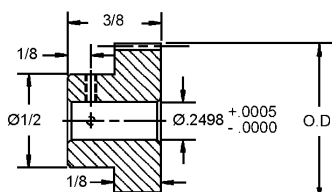
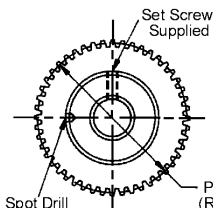
• For 31-34 teeth hub diameter equals .44
Available on request, other numbers of
teeth, AGMA quality 12 and 14, and 14-1/2°
Pressure Angle.

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.

B

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



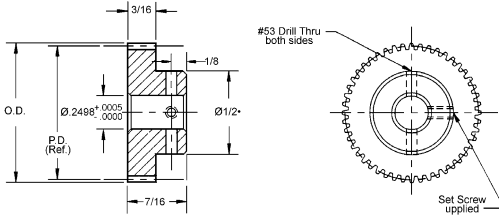
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

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

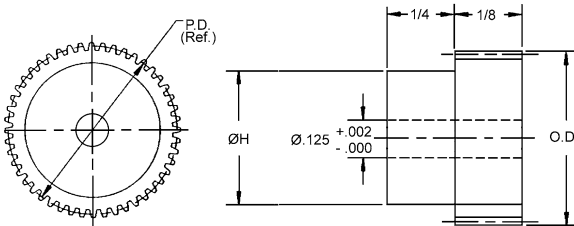
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
64	PIN HUB	1/4"	3/16"	17-4 STAINLESS STEEL RC 28 - 35	10	20°



- 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°

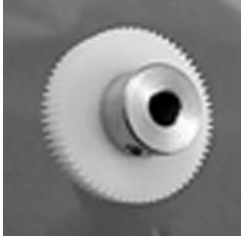
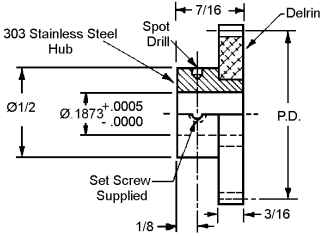


COLD ROLLED STEEL C12L14 OR C12L15 WITH SELENIUM STOCK NO.	BRASS ALLOY 360 STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.	H
PX64S-15	PX64B-15	15	.234	.265	.187
PX64S-16	PX64B-16	16	.250	.281	.203
PX64S-18	PX64B-18	18	.281	.312	.234
-	PX64B-24	24	.375	.406	.328
-	PX64B-40	40	.625	.656	.578
-	PX64B-48	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"	DELRIN WITH STAINLESS STEEL HUB	10	20°



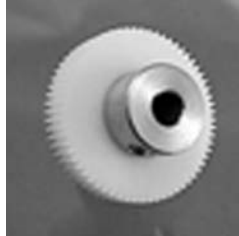
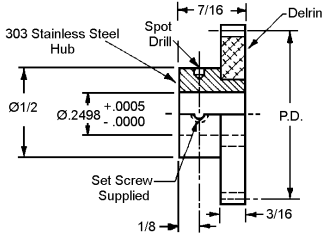
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
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"	DELIRIN WITH STAINLESS STEEL HUB	10	20°



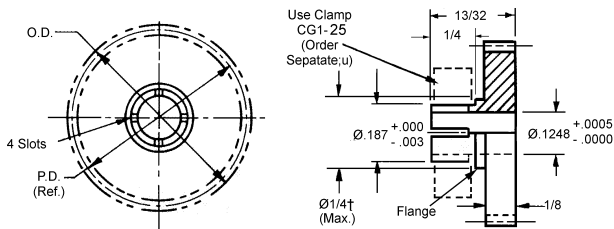
Available on request, other numbers of teeth,
14-1/2° Pressure Angle.

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 HUB	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.

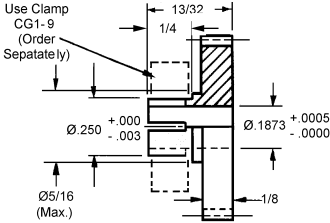
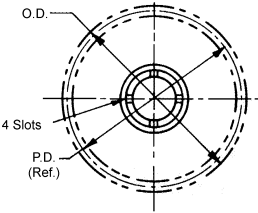
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
C64S7-18	C64A7-18	18†	.2812	.312
C64S7-19	C64A7-19	19	.2968	.328
C64S7-20	C64A7-20	20	.3125	.343
C64S7-21	C64A7-21	21	.3281	.359
C64S7-22	C64A7-22	22	.3437	.375
C64S7-23	C64A7-23	23	.3593	.390
C64S7-24	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 HUB	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.

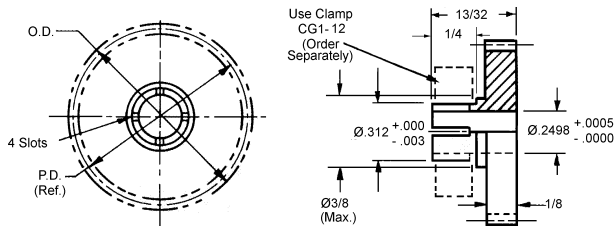
X in part number indicates part may be supplied
in two piece construction with stainless steel hub
(some dimensions may vary).

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
C64S14-90	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	2.781
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.

B

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



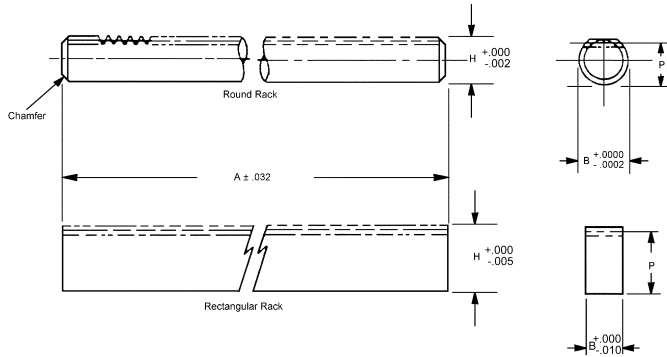
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	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

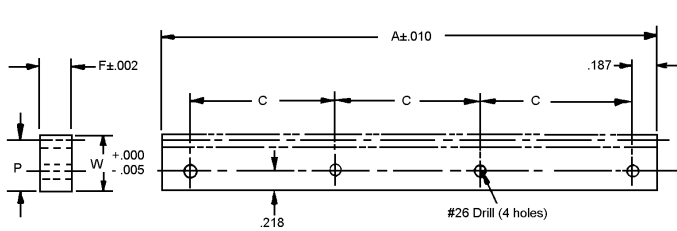
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
64	ROUND & RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



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°

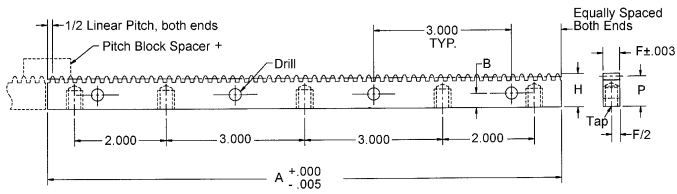


STOCK NO.	MATERIAL	A (Inch)	P (Ref.)	W	F	C
R4-15	STAINLESS ST.	7"	.4644	.480	.230	2.208
R4-16	ALUMINUM					

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°



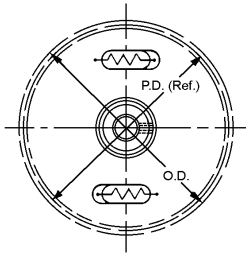
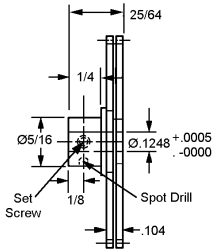
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

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

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

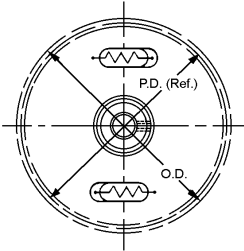
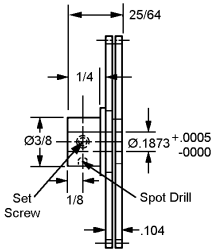
O.D. = P.D. +.031

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 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°



B

Hub Material: 303 Stainless Steel

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

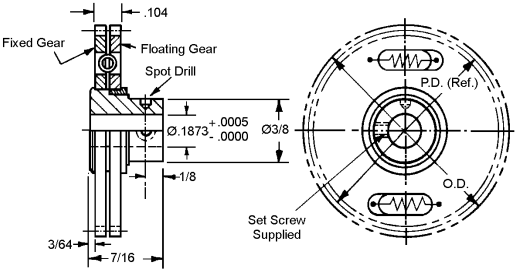
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER
AP64US-60	AP64VS-60	60	.9375
AP64US-64	AP64VS-64	64	1.0000
AP64US-68	AP64VS-68	68	1.0625
AP64US-70	AP64VS-70	70	1.0937
AP64US-75	AP64VS-75	75	1.1718
AP64US-80	AP64VS-80	80	1.2500
AP64U-85	AP64V-85	85	1.3281
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

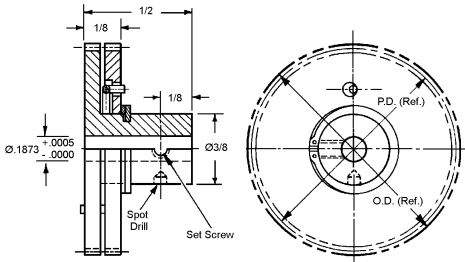
STAINLESS STEEL STOCK NO.	ALUMINUM ANODIZED STOCK NO.	NO.OF TEETH	PITCH DIA.	OUTSIDE DIA.	SPRING STYLE
AP64CS-37	-	37	.5781	.609	SCISSOR
AP64CS-40	-	40	.6250	.656	
AP64CS-48	AP64PS-48	48	.7500	.781	
AP64CS-56	AP64PS-56	56	.8750	.906	
AP64CS-60	AP64PS-60	60	.9375	.968	
AP64C-64	AP64P-64	64	1.0000	1.031	COIL
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

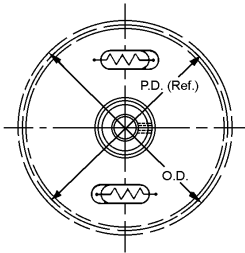
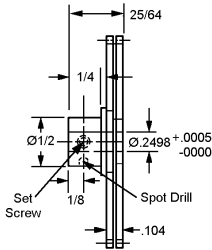
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AP64HS-40	AP64JS-40	40		.6250	.656
AP64HS-48	AP64JS-48	48	.1873	.7500	.781
AP64HS-64	AP64JS-64	64		1.0000	1.031

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

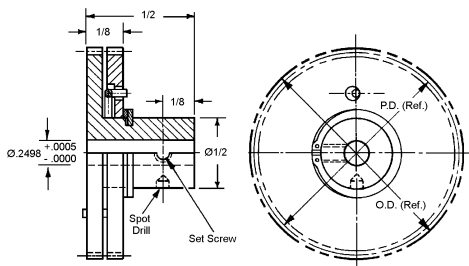
Available on request:

- 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

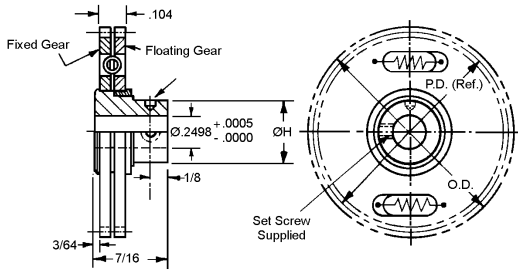
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AP64KS-48	AP64LS-48	48	.2498	.7500	.781
AP64KS-64	AP64LS-64	64	.2498	1.0000	1.031

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

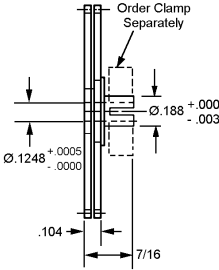
STAINLESS STEEL STOCK NO.	ALUMINUM ANODIZED STOCK NO.	NO.OF TEETH	PITCH DIA.	OUTSIDE DIA.	SPRING STYLE	H
AP64ES-38	-	38	.5937	.625	SCISSOR	3/8
AP64ES-40	-	40	.6250	.656		
AP64ES-48	AP64RS-48	48	.7500	.781		
AP64ES-56	AP64RS-56	56	.8750	.906		
AP64ES-60	AP64RS-60	60	.9375	.968		
AP64ES-62	AP64RS-62	62	.9687	1.000	COIL	7/16
AP64E-64	AP64R-64	64	1.0000	1.031		
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 HUB	1/8"	.104"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



B

Hub Material: 303 Stainless Steel

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

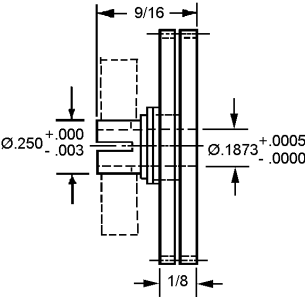
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER
AC64SS-52	AC64TS-52	52	.8125
AC64SS-55	AC64TS-55	55	.8593
AC64SS-56	AC64TS-56	56	.8750
AC64SS-60	AC64TS-60	60	.9375
AC64SS-64	AC64TS-64	64	1.0000
AC64SS-68	AC64TS-68	68	1.0625
AC64SS-70	AC64TS-70	70	1.0937
AC64SS-75	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 HUB	3/16"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material:
303 Stainless Steel

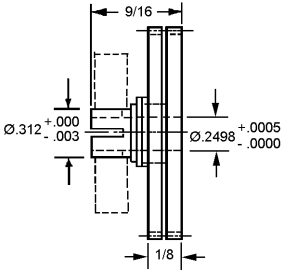
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC64HS-40	AC64JS-40	64	40	.6250	.656
AC64HS-48	AC64JS-48		48	.7500	.781
AC64HS-64	AC64JS-64		64	1.0000	1.031

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 HUB	1/4"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



B

Hub Material:
303 Stainless Steel

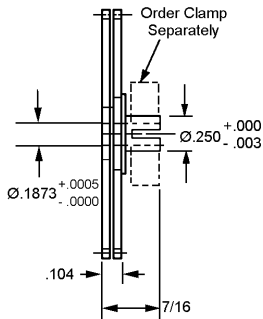
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC64KS-48 AC64KS-64	AC64LS-48 AC64LS-64	64	48 64	0.7500 1.0000	.781 1.031

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 HUB	3/16"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

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

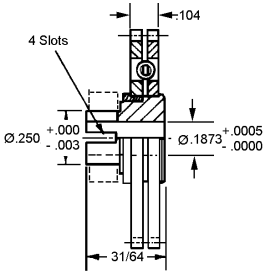
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER
AC64US-60	AC64VS-60	60	.9375
AC64US-64	AC64VS-64	64	1.0000
AC64US-68	AC64VS-68	68	1.0625
AC64US-70	AC64VS-70	70	1.0937
AC64US-75	AC64VS-75	75	1.1718
AC64US-80	AC64VS-80	80	1.2500
AC64U-85	AC64V-85	85	1.3281
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 HUB	3/16"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

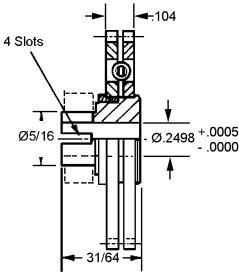
STAINLESS STEEL STOCK NO.	ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.	SPRING STYLE
AC64CS-37	-	37	.5781	.609	SCISSOR
AC64CS-40	-	40	.6250	.656	
AC64CS-48	AC64PS-48	48	.7500	.781	
AC64CS-56	AC64PS-56	56	.8750	.906	
AC64CS-60	AC64PS-60	60	.9375	.968	
AC64C-64	AC64P-64	64	1.0000	1.031	COIL
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	
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 HUB	1/4"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

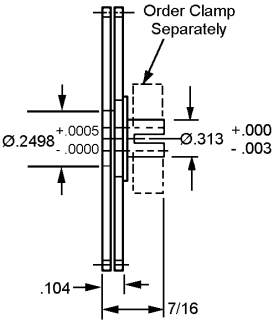
STAINLESS STEEL STOCK NO.	ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.	SPRING STYLE
AC64ES-38	-	38	.5937	.625	SCISSOR
AC64ES-40	-	40	.6250	.656	
AC64ES-48	AC64RS-48	48	.7500	.781	
AC64ES-56	AC64RS-56	56	.8750	.906	
AC64ES-60	AC64RS-60	60	.9375	.968	
AC64ES-62	AC64RS-62	62	.9687	1.000	COIL
AC64E-64	AC64R-64	64	1.0000	1.031	
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 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
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

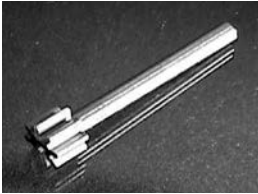
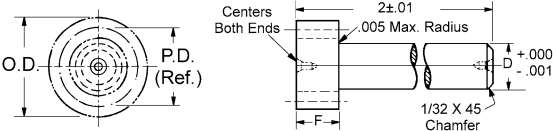
O.D. = P.D. +.031

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.

PINION SHAFTS

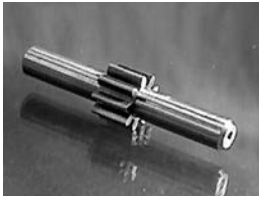
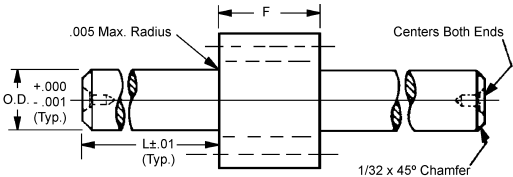
PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
64	BRASS AND COLD ROLLED STEEL	5	20°



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	3/16
PSX64S-14	PSX64B-14	14	.2188	.250	.125	
PSX64S-15	PSX64B-15	15	.2344	.265	.187	
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°

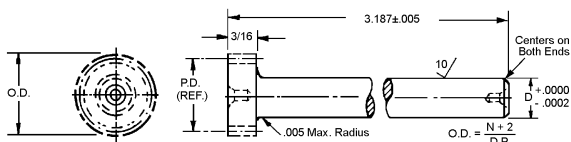


COLD ROLLED STEEL 12L14 OR 12L15 W/SELENIUM STOCK NO.	BRASS ALLOY 360 STOCK NO.	NUMBER OF TEETH	PITCH DIAMETER	OUTSIDE DIAMETER	D	F	L
PSW64S-12	PSW64B-12	12	.1875	.218	.125	3/16	3/8
PSW64S-14	PSW64B-14	14	.2188	.250			
PSW64S-15	PSW64B-15	15	.2344	.265			
PSW64S-16	PSW64B-16	16	.2500	.281			
PSW64S-18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



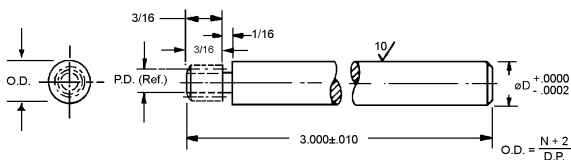
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS64S2-16H	64	16	.2500	.1247
PS64S3-16H		16	.2500	.1872
PS64S4-16H		16	.2500	.2497
PS64S4-18H		18	.2812	.2497
PS64S2-20H		20	.3125	.1247
PS64S3-20H		20	.3125	.1872
PS64S4-20H		20	.3125	.2497
PS64S4-22H		22	.3437	.2497
PS64S4-24H		24	.3750	.2497

Other numbers of teeth available on request.



B

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

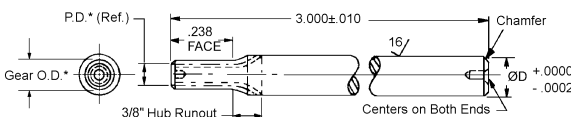


STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS64S4-12	64	12	.1875	.2497
PS64S4-14	64	14	.2187	.2497

Other numbers of teeth available on request.



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



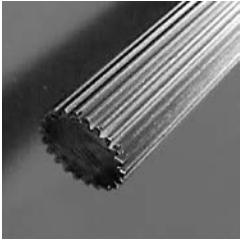
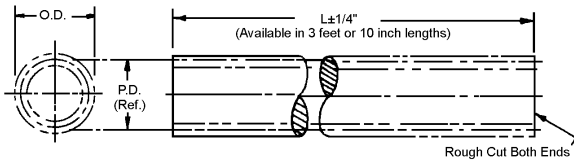
STOCK NO.	PITCH	NO. OF TEETH	D	ENLARGED	
				PITCH DIAMETER	OUTSIDE DIA.
B-PS64S4-10	64	10	.2497	.1692	.200
B-PS64S4-11		11		.1830	.214
B-PS64S4-12		12		.1968	.228
B-PS64S4-13		13		.2106	.241
B-PS64S5-15	64	15	.3122	.2382	.269

Other numbers of teeth available on request.



SPUR GEAR STOCKS

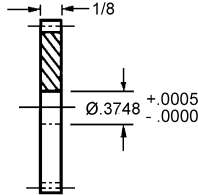
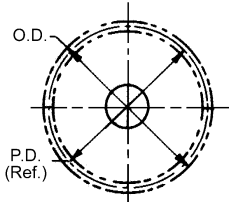
PITCH	TYPE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
64	PINION WIRE	BRASS AND COLD ROLLED STEEL	4	20°



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°

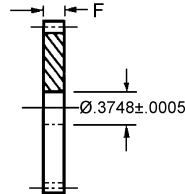
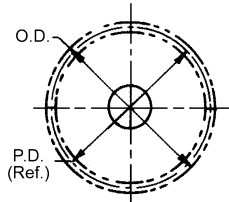


Available on request:

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 GEARS & HUBS

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
72	X	1/4"	303 STAINLESS STEEL	10	20°

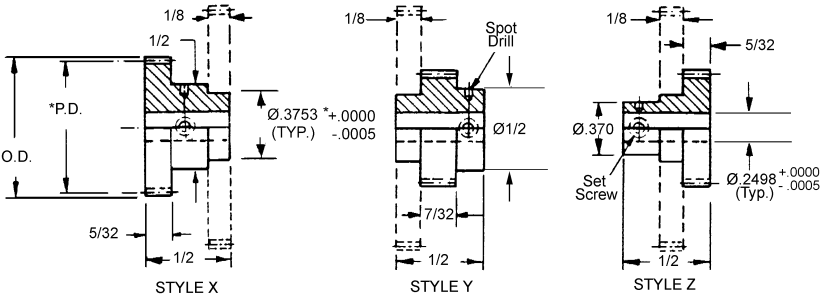
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP72S14-30	72	30	.4166	.444
DP72S14-36		36	.5000	.528
DP72S14-40		40	.5555	.583

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. 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	PRES. 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.

B

STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP72S8-30	72	30	4.166	.444
DP72S8-32		32	4.444	.472
DP72S8-34		34	4.722	.500
DP72S8-35		35	4.861	.514
DP72S8-36		36	5.000	.528

STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP72S10-30	72	30	4.166	.444
DP72S10-32		32	4.444	.472
DP72S10-34		34	4.722	.500
DP72S10-35		35	4.861	.514
DP72S10-36		36	5.000	.528

STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP72S12-30	72	30	4.166	.444
DP72S12-32		32	4.444	.472
DP72S12-34		34	4.722	.500
DP72S12-35		35	4.861	.514
DP72S12-36		36	5.000	.528

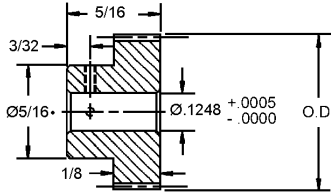
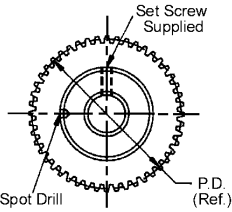


- Hub runout cuts thru shoulder.

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°



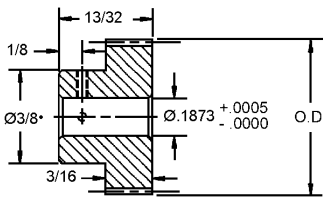
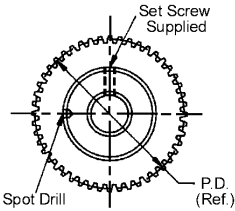
- For 20-25 teeth hub diameter equals .24
- Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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°



B

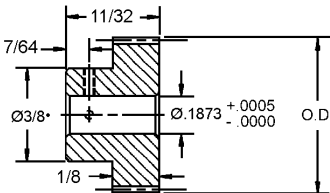
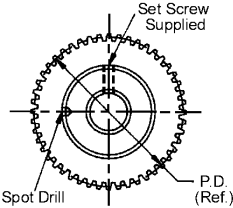
• For 27-29 teeth hub diameter equals .33
Available on request, other numbers of
teeth and 14-1/2° Pressure Angle.

303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
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°



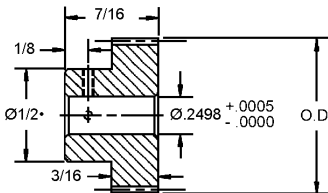
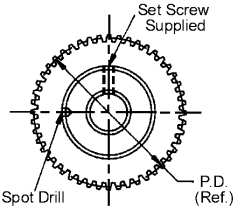
• For 27-29 teeth hub diameter equals .33
Available on request, other numbers
of teeth, AGMA quality 12 and 14, and
14-1/2° Pressure Angle.

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°



B

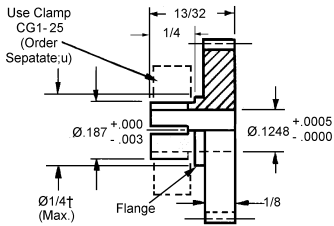
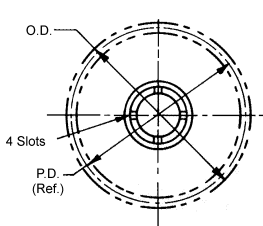
• For 35-38 teeth hub diameter equals .44
Available on request, other numbers
of teeth, AGMA quality 12 and 14, and
14-1/2° Pressure Angle.

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 HUB	1/8"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



† Teeth may runout on flange diameter.

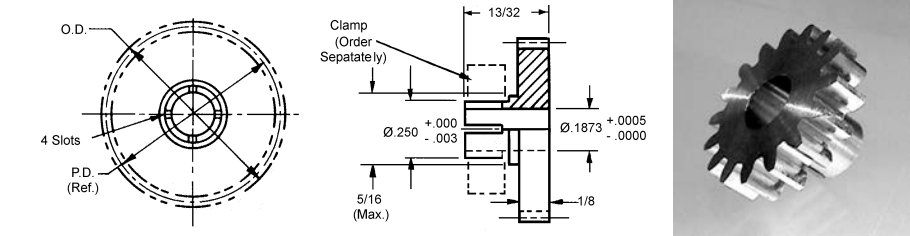
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
	STOCK NO.			
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

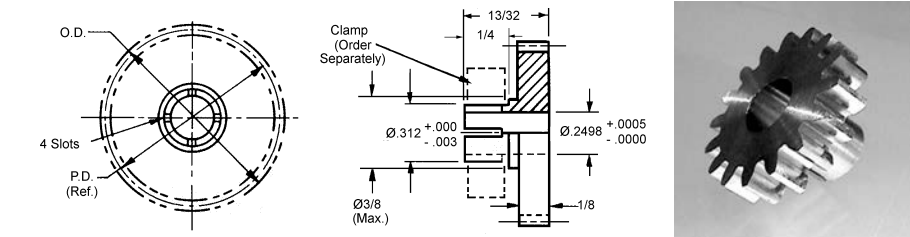
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
72	CLAMP HUB	3/16"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



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 HUB	1/4"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°

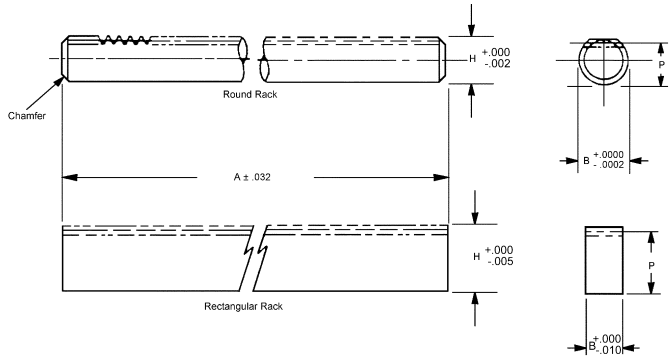


Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	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

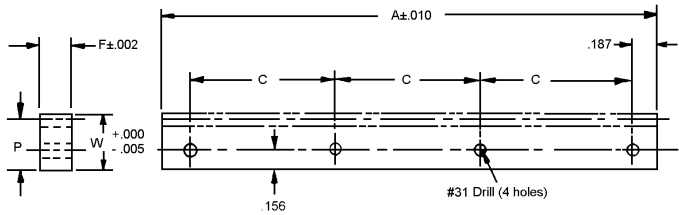
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
72	ROUND & RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



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°

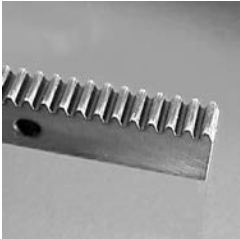
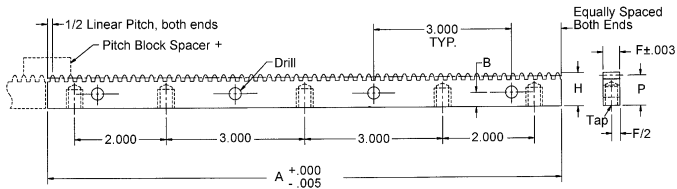


STOCK NO.	MATERIAL	A (Inch)	P (Ref.)	W	F	C
R4-17	STAINLESS ST.	5"	.3411	.355	.167	1.541
R4-18	ALUMINUM					

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°



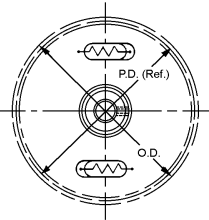
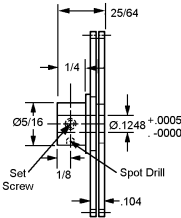
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

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

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

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

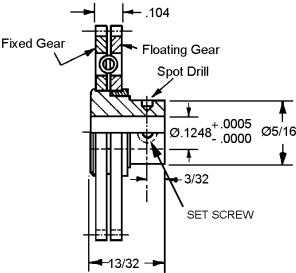
Available on request:

- 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 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

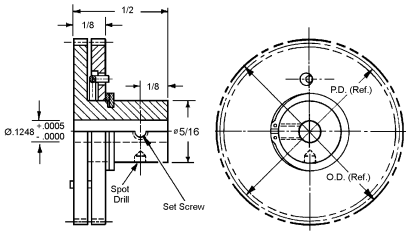
Available on request:
Other numbers of teeth;
AGMA Quality 12 and 14 (some dimensions may vary);
14-12° pressure angle.

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

B

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

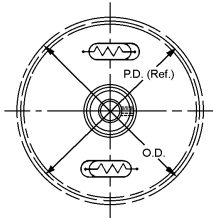
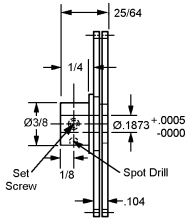
STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AP72FS-44	AP72GS-44	44	.1248	.6111	.639
AP72FS-56	AP72GS-56	56		.7777	.805
AP72FS-72	AP72GS-72	72		1.0000	1.028

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°



B

Hub Material: 303 Stainless Steel

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

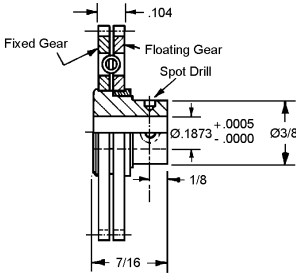
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER
AP72US-68	AP72VS-68	68	.9444
AP72US-70	AP72VS-70	70	.9722
AP72US-72	AP72VS-72	72	1.0000
AP72US-75	AP72VS-75	75	1.0416
AP72US-80	AP72VS-80	80	1.1111
AP72US-84	AP72VS-84	84	1.1666
AP72US-90	AP72VS-90	90	1.2500
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°

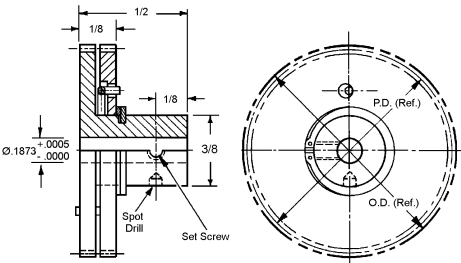


Hub Material: 303 Stainless Steel

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°



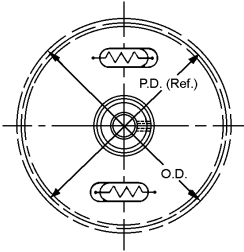
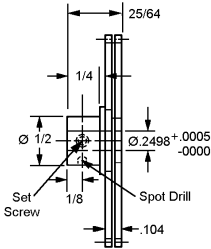
Hub Material: 303 Stainless Steel

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°



B

Hub Material: 303 Stainless Steel

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

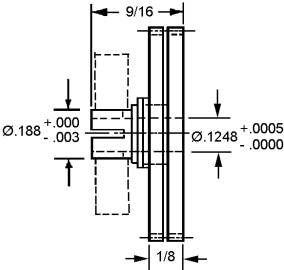
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER
AP72WS-72	AP72XS-72	72	1.0000
AP72WS-75	AP72XS-75	75	1.0416
AP72WS-80	AP72XS-80	80	1.1111
AP72WS-84	AP72XS-84	84	1.1666
AP72WS-90	AP72XS-90	90	1.2500
AP72WS-96	AP72XS-96	96	1.3333
AP72W-100	AP72X-100	100	1.3888
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

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 HUB	1/8"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material:
303 Stainless Steel

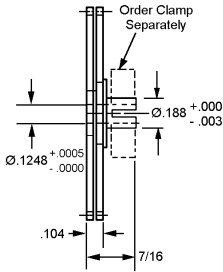
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
AC72FS-44	AC72GS-44	44	.6111	.639
AC72FS-56	AC72GS-56	56	.7777	.805
AC72FS-72	AC72GS-72	72	1.0000	1.028

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 HUB	1/8"	.104"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



B

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

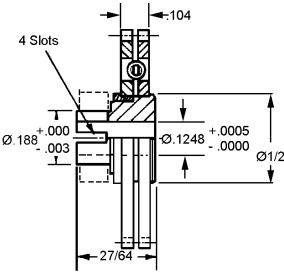
Available on request:

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 HUB	1/8"	.104"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°

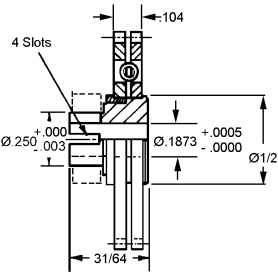


Hub Material: 303 Stainless Steel

303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER.	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°



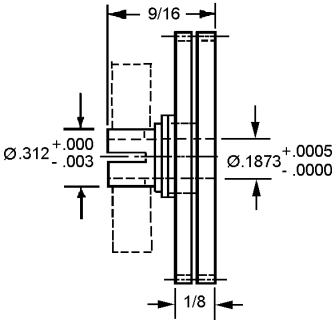
Available on request:
Other numbers of teeth;
AGMA Quality 12 and 14
(some dimensions may vary);
14-12° pressure angle.

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 HUB	3/16"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

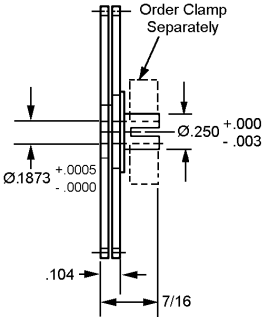
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER.	OUTSIDE DIA.
AC72HS-44	AC72JS-44	44	.6111	.639
AC72HS-56	AC72JS-56	56	.7777	.805
AC72HS-72	AC72JS-72	72	1.0000	1.028

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 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
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

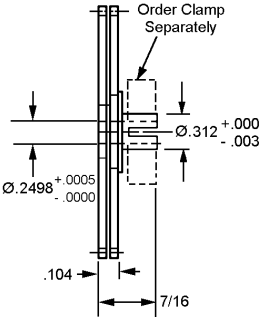
Available on request:

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 HUB	1/4"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

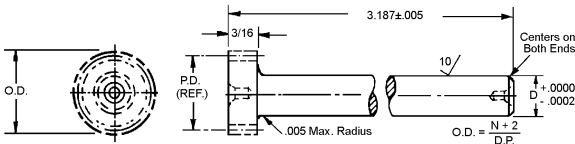
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIAMETER
AC72WS-72	AC72XS-72	72	1.0000
AC72WS-75	AC72XS-75	75	1.0416
AC72WS-80	AC72XS-80	80	1.1111
AC72WS-84	AC72XS-84	84	1.1666
AC72WS-90	AC72XS-90	90	1.2500
AC72WS-96	AC72XS-96	96	1.3333
AC72W-100	AC72X-100	100	1.3888
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

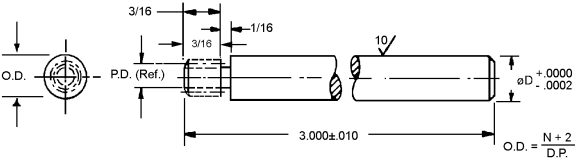
PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
72	303 STAINLESS STEEL	10	20°



STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS72S3-18H	72	18	.2500	.1872
PS72S2-24H		24	.3333	.1247
PS72S3-24H		24	.3333	.1872

Other numbers of teeth available on request.

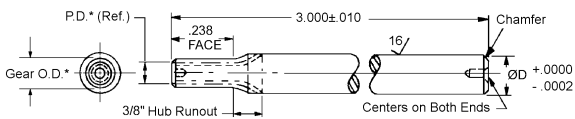
PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
72	303 STAINLESS STEEL	10	20°



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°

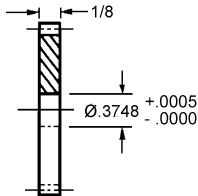
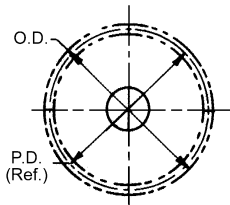


STOCK NO.	PITCH	NO. OF TEETH	D	ENLARGED	
				PITCH DIAMETER	OUTSIDE DIA.
B-PS72S3-10		10	.1872	.1504	.178
B-PS72S4-12	72	12	.2497	.1750	.202
B-PS72S4-15		15		.2117	.239

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°



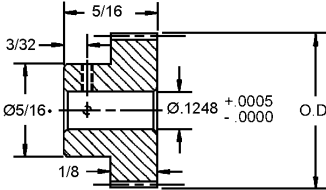
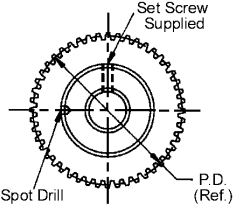
Available on request:
Pin or Clamp hubs assembled
Other numbers of teeth
14 - 1/2° Pressure Angle

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°



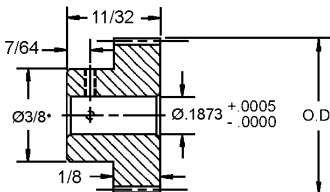
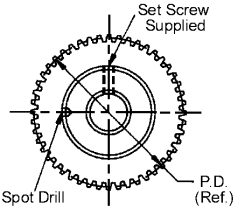
- For 22-27 teeth hub diameter equals .24
- Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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°



B

• For 30 teeth hub diameter equals .34

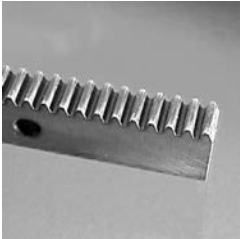
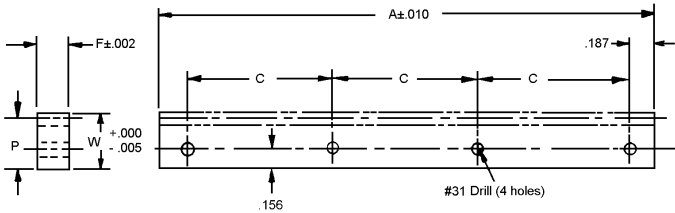
Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
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

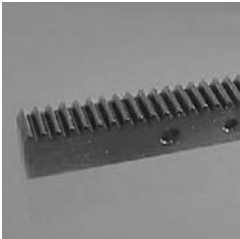
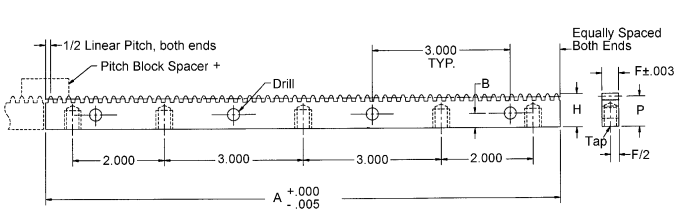
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
80	RECTANGULAR	416 SERIES STAINLESS STEEL AND 2024-T4 ALUMINUM ANODIZED	10	20°



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°



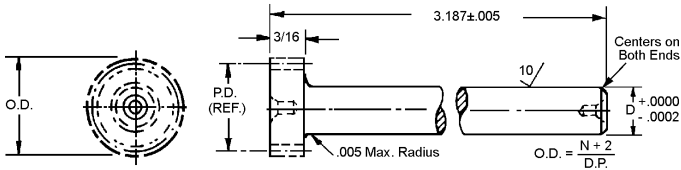
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

RACKS	SPACER BLOCK												
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
R1-10-G1	R1-10-SB	10*	.0014	.0005	80	.0393	11.028	.3375	.350	.167	.156	#31	#4-40 X 3/16

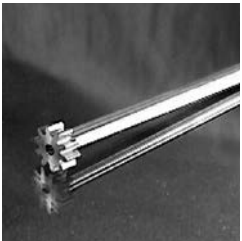
* Higher quality on request.

PINION SHAFTS

PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
80	303 STAINLESS STEEL	10	20°

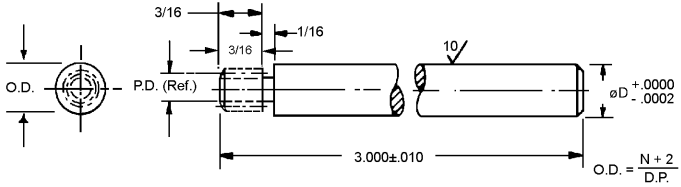


Other numbers of teeth available on request.



B

PITCH	MATERIAL	AGMA QUALITY	PRES. ANGLE
80	303 STAINLESS STEEL	10	20°

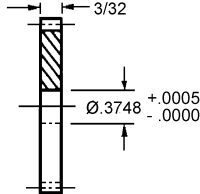
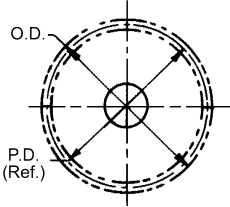


Other numbers of teeth available on request.



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 GEARS & HUBS

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
96	X	3/16"	303 STAINLESS STEEL	10	20°

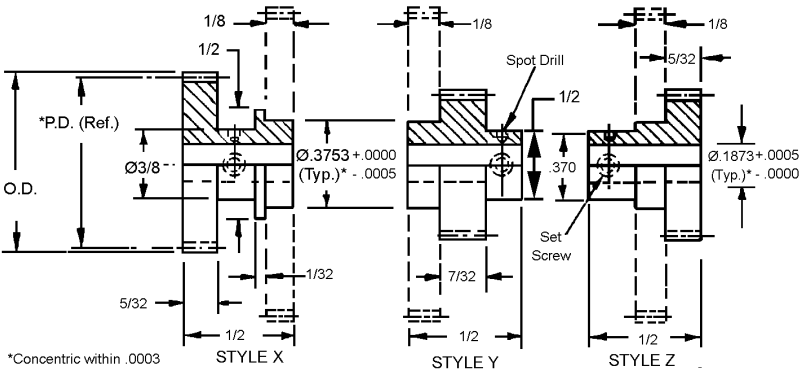
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP96S8-40	96	40	.4166	.428
DP96S8-42		42	.4375	.458
DP96S8-44		44	.4583	.479
DP96S8-45		45	.4687	.490
DP96S8-46		46	.4791	.500
DP96S8-48		48	.5000	.521
DP96S8-50		50	.5208	.542

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. 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	PRES. ANGLE
96	Z	3/16"	303 STAINLESS STEEL	10	20°

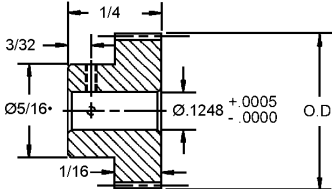
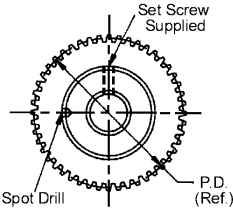
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP96S12-40	96	40	.4166	.428
DP96S12-42		42	.4375	.458
DP96S12-44		44	.4583	.479
DP96S12-45		45	.4687	.490
DP96S12-46		46	.4791	.500
DP96S12-48		48	.5000	.521
DP96S12-50		50	.5208	.542



• 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°



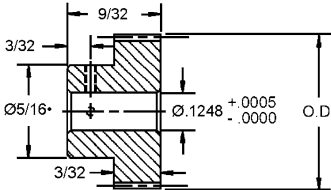
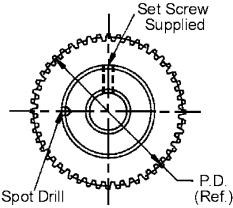
- For 26-30 teeth hub diameter equals .24
- Available on request, other numbers of teeth and 14-1/2° Pressure Angle.

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°



B

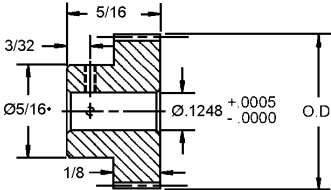
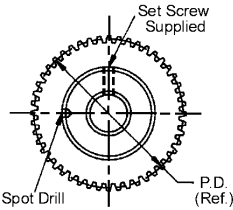
• For 26-30 teeth hub diameter equals .24
Available on request, other numbers of
teeth, AGMA quality 12 and 14, and 14-1/2°
Pressure Angle.

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°



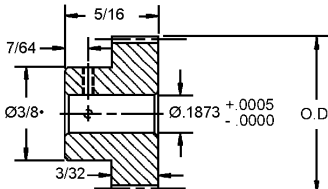
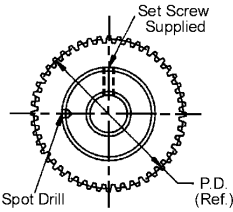
- For 26-32 teeth hub diameter equals .24
- Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

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°



B

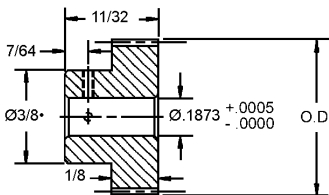
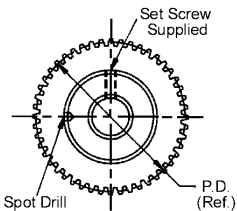
• For 36 teeth hub diameter equals .34
Available on request, other numbers of
teeth, AGMA quality 12 and 14, and 14-1/2°
Pressure Angle.

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.

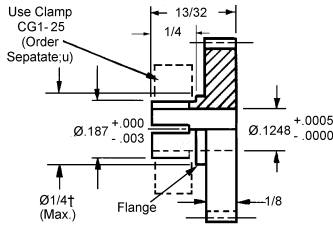
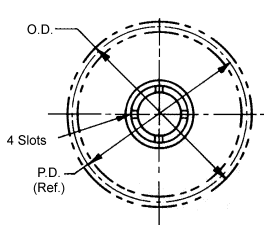
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
P96S19-36	P96A19-36	36•	.3750	.395
P96S19-38	P96A19-38	38•	.3958	.416
P96S19-40	P96A19-40	40	.4166	.437
P96S19-42	P96A19-42	42	.4375	.458
P96S19-44	P96A19-44	44	.4583	.479
P96S19-45	P96A19-45	45	.4687	.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 HUB	1/8"	1/8"	303 STAINLESS STEEL AND ALUMINUM ANODIZED	10	20°



B

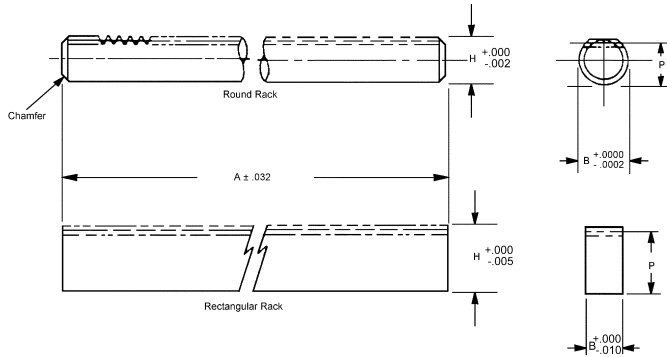
† Teeth may runout on flange diameter.
Available on request, other numbers of teeth,
Agma Quality 12 and 14-1/2° Pressure Angle.

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

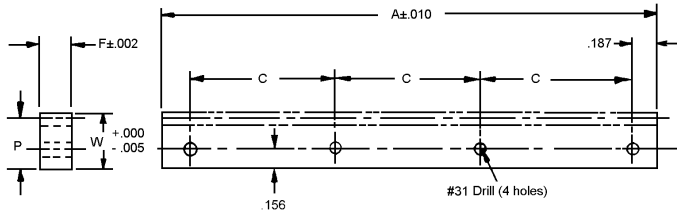
PITCH	STYLE	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
96	ROUND & RECTANGULAR	416 SERIES STAINLESS STEEL STRESSED RELIEVED	10	20°



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°

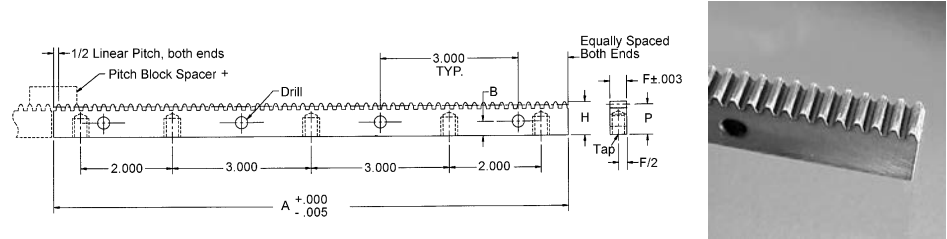


STOCK NO.	MATERIAL	A (Inch)	P (Ref.)	W	F	C
R4-21	STAINLESS ST.	3"	.3446	.355	.167	.875
R4-22	ALUMINUM					

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°



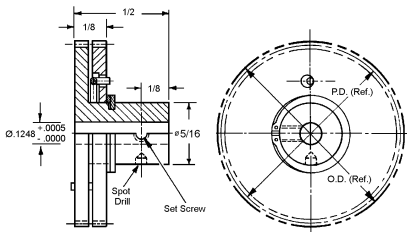
† Spacer block is designed for butting to achieve continuous lengths. On-Line pricing for AGMA 10 only.

RACKS	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
R1-11-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°



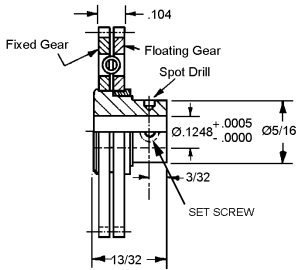
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AP96FS-60	AP96GS-60	60		.6250	.646
AP96FS-72	AP96GS-72	72	.1248	.7500	.771
AP96FS-96	AP96GS-96	96		1.0000	1.021

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	

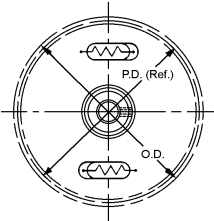
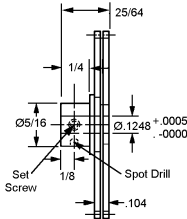
Available on request:

- 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

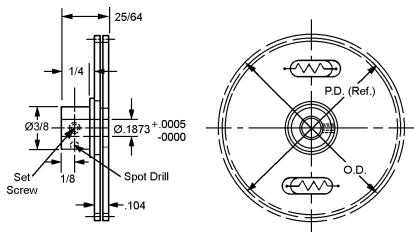
O.D. = P.D. +.031
HUB MATERIAL: 303 Stainless Steel

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.

B

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

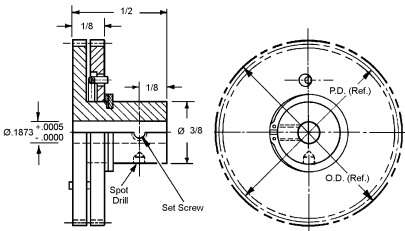
Available on request:

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°

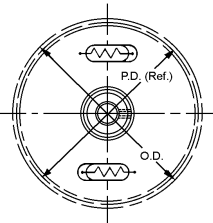
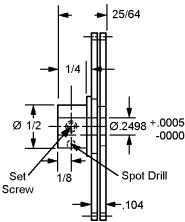


STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AP96HS-60	AP96JS-60	60	.1873	.6250	.646
AP96HS-72	AP96JS-72	72		.7500	.771
AP96HS-96	AP96JS-96	96		1.0000	1.021

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°



B

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

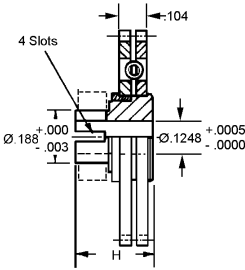
O.D. = P.D. +.031
HUB MATERIAL: 303 Stainless Steel

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 HUB	1/8"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



Hub Material: 303 Stainless Steel

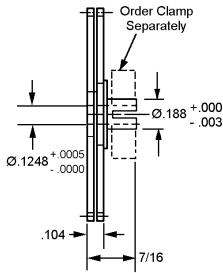
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO.OF TEETH	PITCH DIA.	OUTSIDE DIA.	SPRING STYLE	H
AC96AS-54	-	54	.5625	.583	SCISSOR	27/64
AC96AS-55	-	55	.5729	.593		
AC96AS-56	-	56	.5833	.604		
AC96AS-60	-	60	.6250	.645		
AC96AS-64	-	64	.6666	.687		
AC96AS-66	-	66	.6875	.708		
AC96AS-72	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	COIL	25/64
AC96A-96	AC96N-96	96	1.0000	1.020		
AC96A-105	AC96N-105	105	1.0937	1.114		
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 HUB	1/8"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



B

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

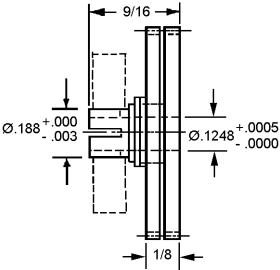
O.D. = P.D. +.031
HUB MATERIAL: 303 Stainless Steel

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 HUB	1/8"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



HUB MATERIAL:
303 Stainless Steel

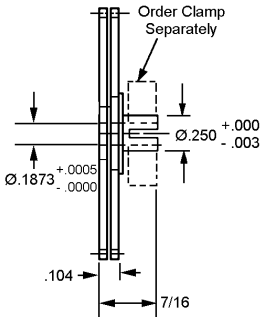
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AC96FS-60	AC96GS-60	60		.6250	.646
AC96FS-72	AC96GS-72	72	.1248	.7500	.771
AC96FS-96	AC96GS-96	96		1.0000	1.021

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 HUB	3/16"	.104	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



B

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

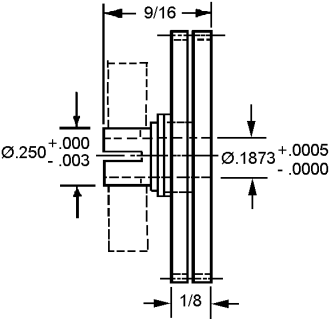
Available on request:

- 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 HUB	3/16"	1/8"	303 STAINLESS STEEL OR 2024-T4 ALUMINUM ANODIZED	10	20°



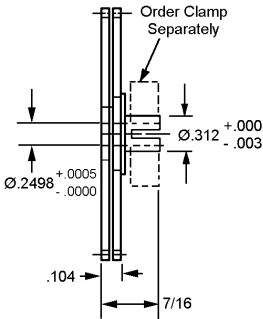
STAINLESS STEEL STOCK NO.	ALUMINUM STOCK NO.	NO. OF TEETH	BORE	PITCH DIA.	OUTSIDE DIA.
AC96HS-60	AC96JS-60	60		.6250	.646
AC96HS-72	AC96JS-72	72	.1873	.7500	.771
AC96HS-96	AC96JS-96	96		1.0000	1.021

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	PRESSURE ANGLE
96	CLAMP 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
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

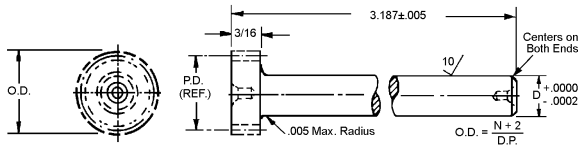
Available on request:

- 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	PRESSURE ANGLE
96	303 STAINLESS STEEL	10	20°

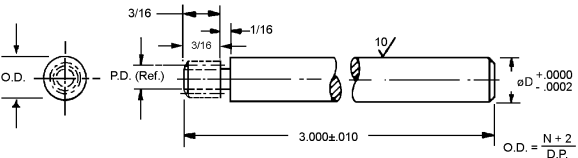


STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS96S2-24H	96	24	.2500	.1247

Other numbers of teeth available on request.



PITCH	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
96	303 STAINLESS STEEL	10	20°

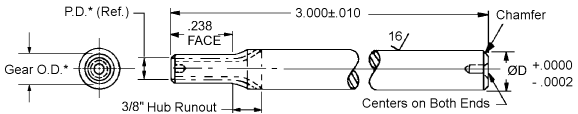


STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	D
PS96S2-10	96	10	.1042	.1247
PS96S3-10		10	.1042	.1872
PS96S3-12		12	.1250	.1872
PS96S3-14		14	.1458	.1872
PS96S4-16		16	.1666	.2497
PS96S4-18		18	.1875	.2497
PS96S4-20		20	.2083	.2497

Other numbers of teeth available on request.



PITCH	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
96	303 STAINLESS STEEL	10	20°



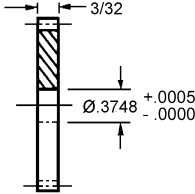
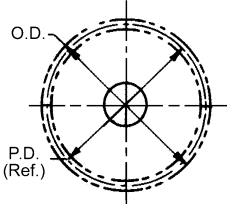
STOCK NO.	PITCH	NO. OF TEETH	D	ENLARGED	
				PITCH DIAMETER	OUTSIDE DIA.
B-PS96S3-10	96	10	.1872	.1128	.133
B-PS96S3-11		11		.1220	.142
B-PS96S3-12		12		.1312	.152
B-PS96S3-13		13		.1404	.161
B-PS96S3-14		14		.1496	.170
B-PS96S3-15		15		.1588	.179
B-PS96S3-16		16		.1680	.187
B-PS96S4-17	96	17	.2497	.1772	.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 GEARS & HUBS

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

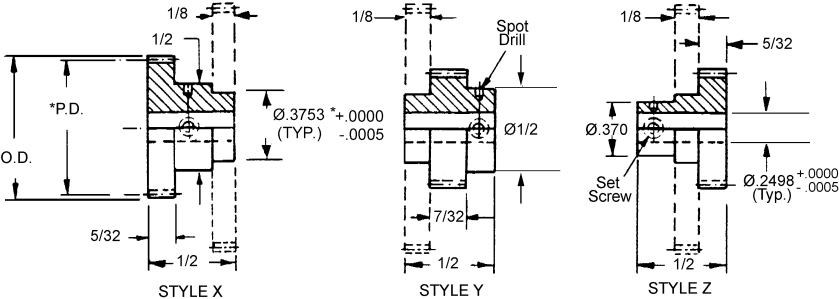
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP120S14-48	120	48	.4000	.417
DP120S14-50		50	.4166	.433
DP120S14-60		60	.5000	.517

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 GEARS & HUBS

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

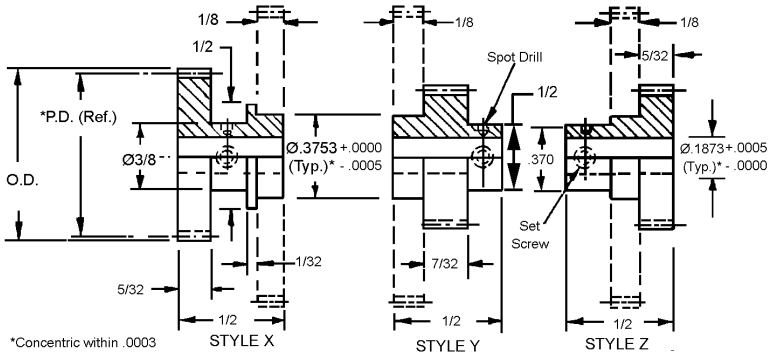
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP120S8-48	120	48	.4000	.417
DP120S8-50		50	.4166	.433
DP120S8-54		54	.4500	.467
DP120S8-55		55	.4583	.475
DP120S8-60		60	.5000	.517
DP120S8-80		80	.6666	.683

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°

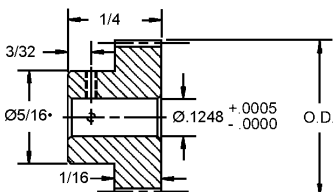
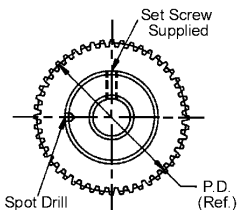
STOCK NO.	PITCH	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
DP120S12-48	120	48	.4000	.417
DP120S12-50		50	.4166	.433
DP120S12-54		54	.4500	.467
DP120S12-55		55	.4583	.475
DP120S12-60		60	.5000	.517
DP120S12-80		80	.6666	.683



• 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 and 14-1/2° Pressure Angle.

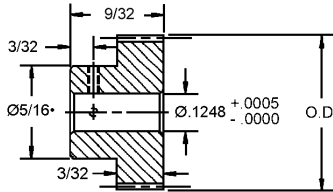
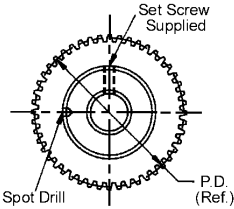
303 STAINLESS STEEL STOCK NO.	2024-T4 ALUMINUM ANODIZED STOCK NO.	NO. OF TEETH	PITCH DIA.	OUTSIDE DIA.
P120S5-32	P120A5-32	32•	.2666	.283
P120S5-33	P120A5-33	33•	.2750	.291
P120S5-34	P120A5-34	34•	.2833	.300
P120S5-36	P120A5-36	36•	.3000	.316
P120S5-39	P120A5-39	39•	.3250	.341
P120S5-40	P120A5-40	40•	.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°



B

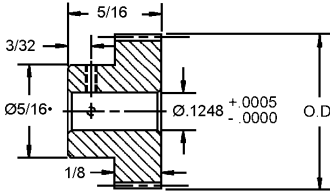
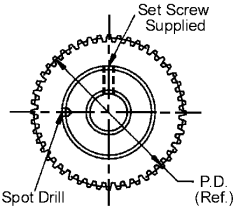
• For 31-40 teeth hub diameter equals .23
Available on request, other numbers of
teeth, AGMA quality 12 and 14, and 14-1/2°
Pressure Angle.

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

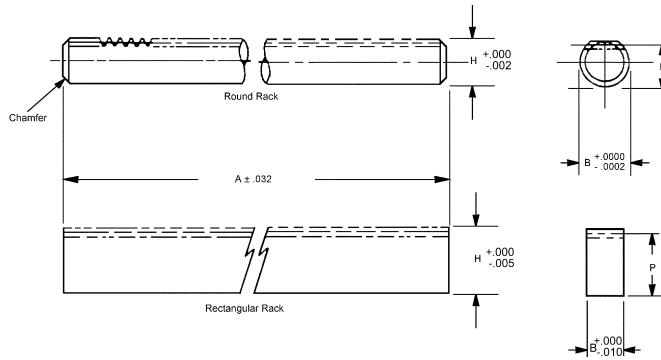
Available on request, other numbers of teeth, AGMA quality 12 and 14, and 14-1/2° Pressure Angle.

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
P120S10-45	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°

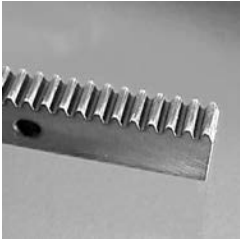
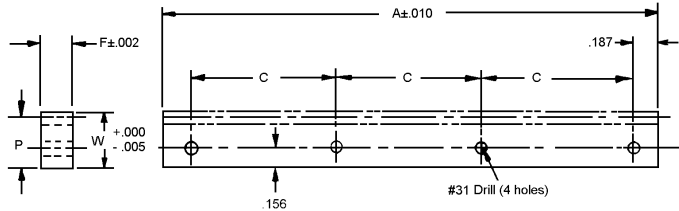


B

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°

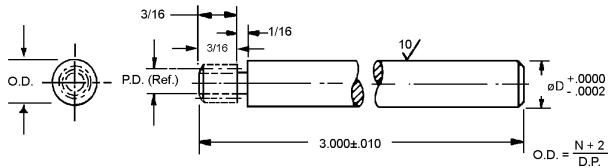


STOCK NO.	MATERIAL	A (Inch)	P (Ref.)	W	F	C
R4-23 R4-24	STAINLESS ST. ALUMINUM	3"	.3467	.355	.167	.875

Available on request: special, modified and custom racks.

PINION SHAFTS

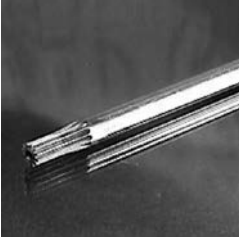
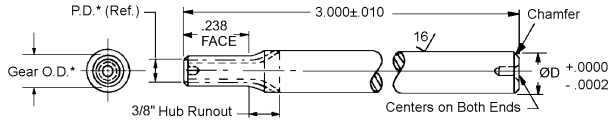
PITCH	MATERIAL	AGMA QUALITY	PRESSURE ANGLE
120	303 STAINLESS STEEL	10	20°



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	PRESSURE ANGLE
120	303 STAINLESS STEEL	10	20°

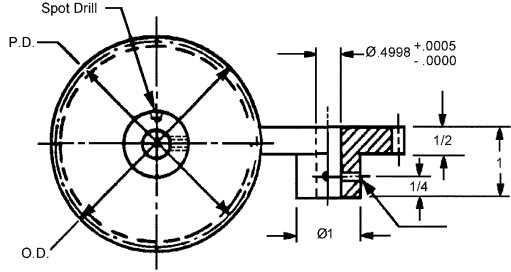
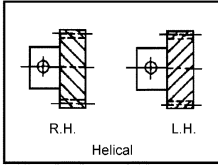


STOCK NO.	PITCH	NO. OF TEETH	D	ENLARGED	
				PITCH DIAMETER	OUTSIDE DIA.
B-PS120S2-10	120	10	.1247	.0902	.106
B-PS120S2-12		12		.1050	.121
B-PS120S3-15	120	15	.1872	.1270	.143
B-PS120S3-17		17		.1418	.158

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°

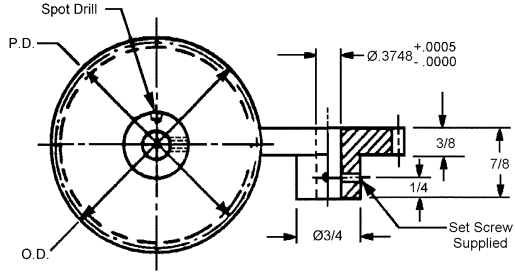
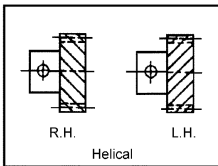


RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
H16S38-R12	H16S38-L12	12•	1.0600	1.185
H16S38-R16	H16S38-L16	16	1.4142	1.539
H16S38-R20	H16S38-L20	20	1.7677	1.892
H16S38-R24	H16S38-L24	24	2.1213	2.246
H16S38-R32	H16S38-L32	32	2.8284	2.953
H16S38-R40	H16S38-L40	40	3.5355	3.660
H16S38-R48	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°



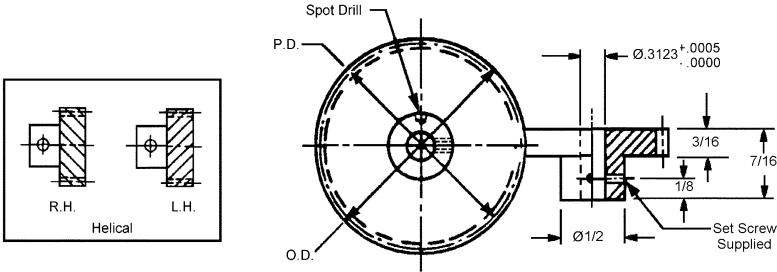
RIGHT HAND STOCK NO.	LEFT HAND STOCK NO.	NO. OF TEETH	P.D.	O.D.
H20S35-R11	H20S35-L11	11•	.7778	.877
H20S35-R15	H20S35-L15	15	1.0606	1.160
H20S35-R20	H20S35-L20	20	1.4142	1.514
H20S35-R25	H20S35-L25	25	1.7677	1.867
H20S35-R30	H20S35-L30	30	2.1213	2.221
H20S35-R40	H20S35-L40	40	2.8284	2.928
H20S35-R50	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

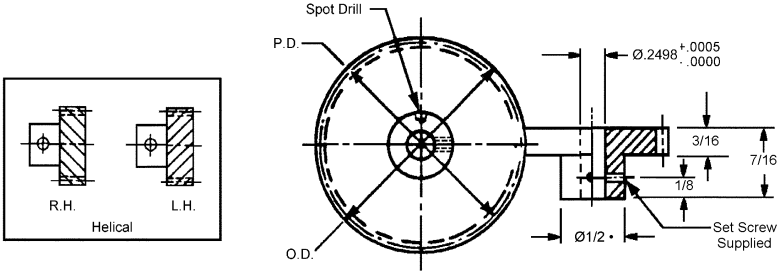
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE	HELIX ANGLE
24	R & L Hand PIN HUB	5/16"	303 Stainless Steel or 2024-T4 Aluminum Anodized	10	20°	45°



RIGHT HAND		LEFT HAND		NO. OF TEETH	P.D.	O.D.
STAINLESS	ALUMINUM	STAINLESS	ALUMINUM			
STOCK NO.	STOCK NO.	STOCK NO.	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°



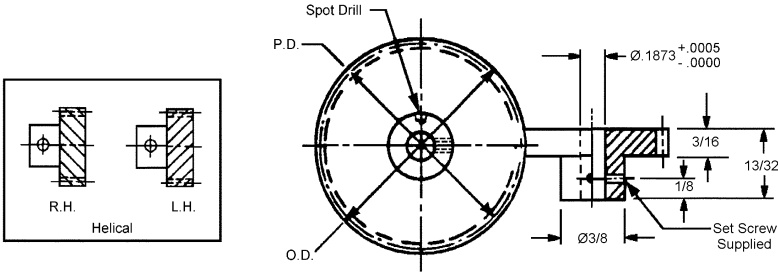
RIGHT HAND		LEFT HAND		NO. OF TEETH	P.D.	O.D.
STAINLESS	ALUMINUM	STAINLESS	ALUMINUM			
STOCK NO.	STOCK NO.	STOCK NO.	STOCK NO.			
H32S28-R16	H32A28-R16	H32S28-L16	H32A28-L16	16	.7071	.769
H32S28-R24	H32A28-R24	H32S28-L24	H32A28-L24	24	1.0606	1.122
H32S28-R32	H32A28-R32	H32S28-L32	H32A28-L32	32	1.4142	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°



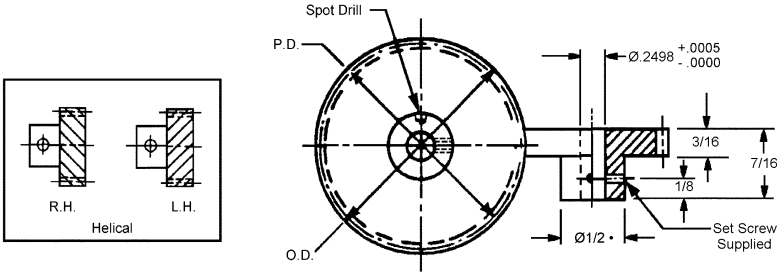
STAINLESS STEEL		ALUMINUM		NO. OF TEETH	P.D.
RIGHT HAND	LEFT HAND	RIGHT HAND	LEFT HAND		
STOCK NO.	STOCK NO.	STOCK NO.	STOCK NO.		
H48S21-R20	H48S21-L20	H48A21-R20	H48A21-L20	20	.5892
H48S21-R24	H48S21-L24	H48A21-R24	H48A21-L24	24	.7071
H48S21-R25	H48S21-L25	H48A21-R25	H48A21-L25	25	.7365
H48S21-R30	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

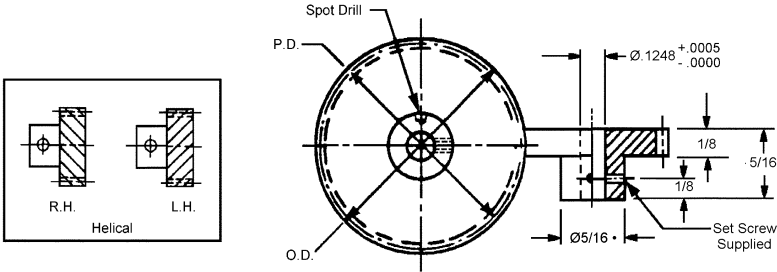


• For 17-19 teeth hub diameter is .44

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

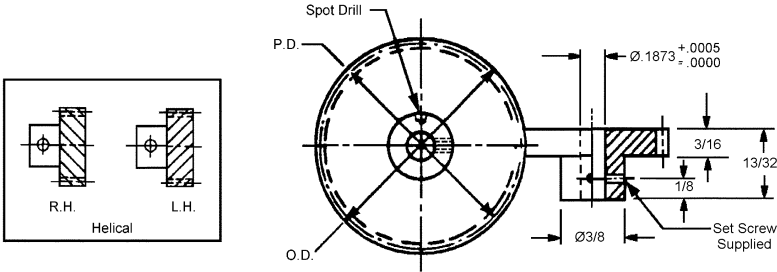


• For 13-15 teeth hub diameter equals .24

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.

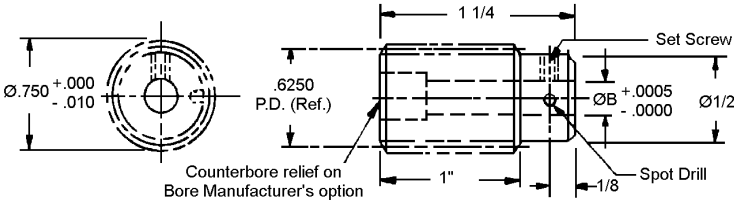
PRECISION WORMS

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°

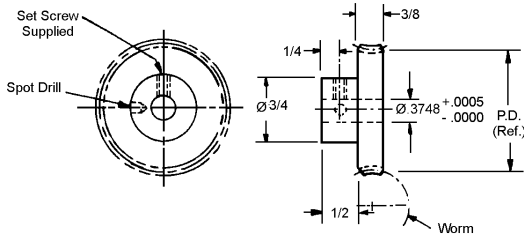
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
16	SINGLE, DOUBLE OR FOUR THREAD	5/16"	303 STAINLESS STEEL	8	RIGHT HAND

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°



PRECISION 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

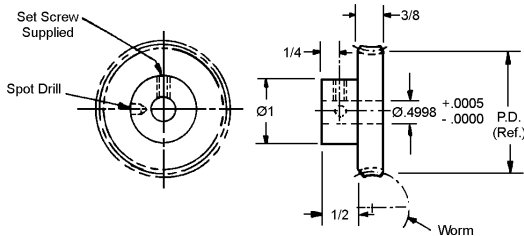


SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
CIRCULAR PITCH .1963 HELIX ANGLE 5° - 43' PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .3927 HELIX ANGLE 11° - 19' PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .7854 HELIX ANGLE 21°-48' PRESSURE ANGLE 20°		
STOCK NO.	STOCK NO.	STOCK NO.		
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



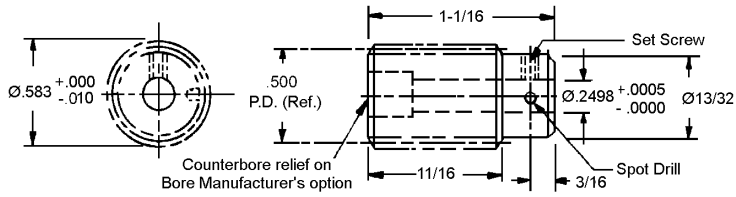
SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
CIRCULAR PITCH .1963 HELIX ANGLE 5° - 43' PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .3927 HELIX ANGLE 11° - 19' PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .7854 HELIX ANGLE 21°-48' PRESSURE ANGLE 20°		
STOCK NO.	STOCK NO.	STOCK NO.		
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

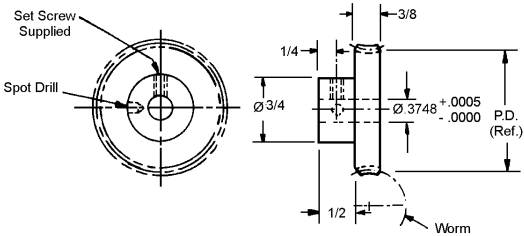
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
24	SINGLE, DOUBLE OR FOUR THREAD	1/4"	303 STAINLESS STEEL	10	RIGHT HAND



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

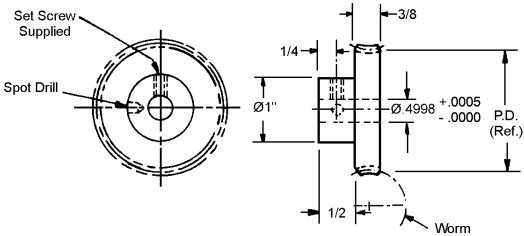


20 tooth hub diameter does not exceed O.D.

SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

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



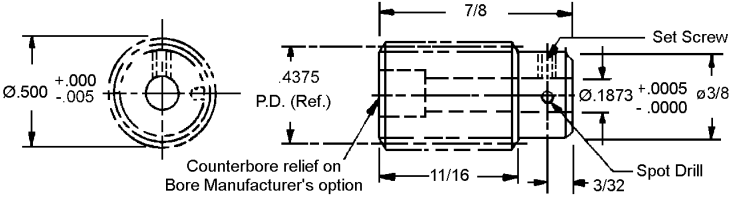
20 tooth hub diameter does not exceed O.D.

SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

PRECISION WORMS

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
32	SINGLE, DOUBLE OR FOUR THREAD	3/16"	303 STAINLESS STEEL	10	RIGHT HAND

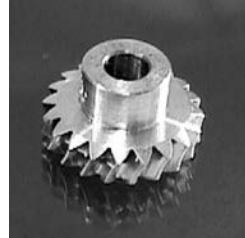
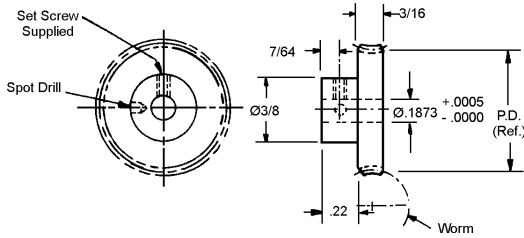


STOCK NO.	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
W32S-3S	SINGLE	.0982	4° - 5°	14-1/2°
W32S-3D	DOUBLE	.1963	8° - 8°	20°
W32S-3F	FOUR	.3927	15° - 57°	25°

AGMA Quality 12 on request.

PRECISION WORM GEARS

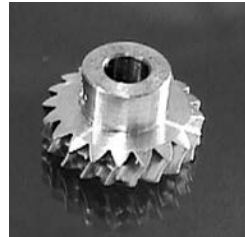
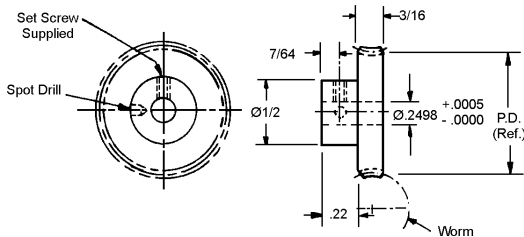
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	TYPE
32	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	3/16"	3/16"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND



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.		
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

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

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

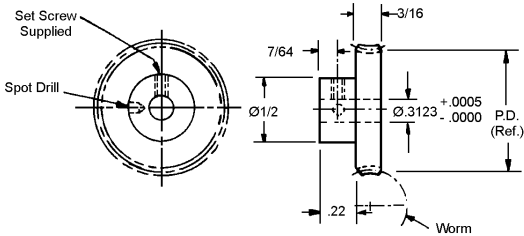


SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
CIRCULAR PITCH .0982 HELIX ANGLE 4° - 5° PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .1963 HELIX ANGLE 8° - 8° PRESSURE ANGLE 20°	CIRCULAR PITCH .3927 HELIX ANGLE 15° - 57° PRESSURE ANGLE 25°		
STOCK NO.	STOCK NO.	STOCK NO.		
W32B29-S20	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

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

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



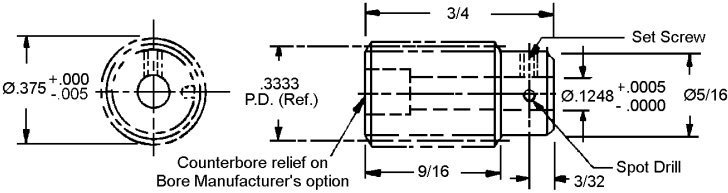
SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
CIRCULAR PITCH .0982 HELIX ANGLE 4° - 5° PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .1963 HELIX ANGLE 8° - 8° PRESSURE ANGLE 20°	CIRCULAR PITCH .3927 HELIX ANGLE 15° - 57° PRESSURE ANGLE 25°		
STOCK NO.	STOCK NO.	STOCK NO.		
W32B30-S20	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

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

PRECISION WORMS

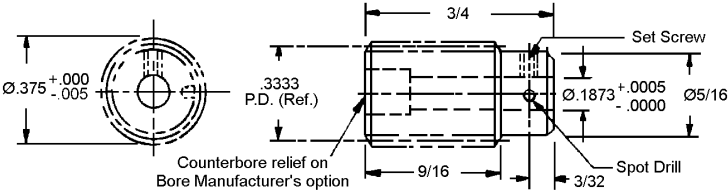
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
48	SINGLE, DOUBLE OR FOUR THREAD	1/8"	303 STAINLESS STEEL	10	RIGHT HAND



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

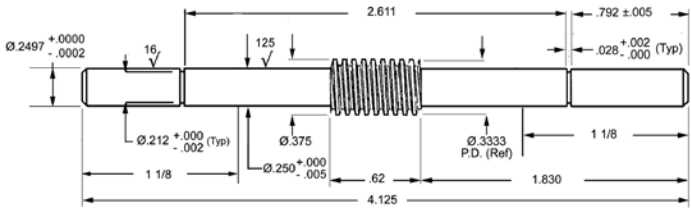


STOCK NO.	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
W48S-3S	SINGLE	.0654	3° - 35°	14-1/2°
W48S-3D	DOUBLE	.1309	7° - 7°	20°
W48S-3F	FOUR	.2618	14° - 2°	25°

AGMA Quality 12 and 14 on request.

PRECISION WORM SHAFTS

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

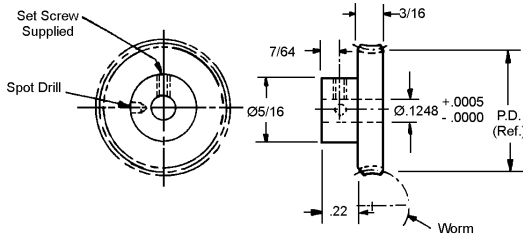


STOCK NO.	AGMA QUALITY
WS48S-4S	10
WS48S-4S-Q12	12

B

PRECISION WORM GEARS

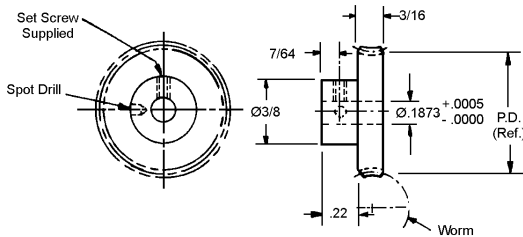
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	TYPE
48	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	1/8"	3/16"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND



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

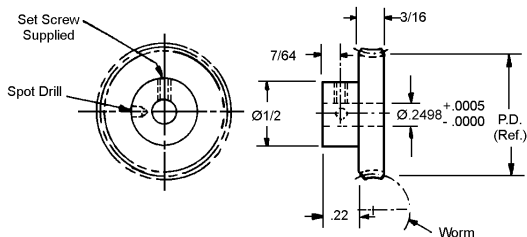


SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35° PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7° PRESSURE ANGLE 20°	CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2° PRESSURE ANGLE 25°		
STOCK NO.	STOCK NO.	STOCK NO.		
W48B21-S30	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

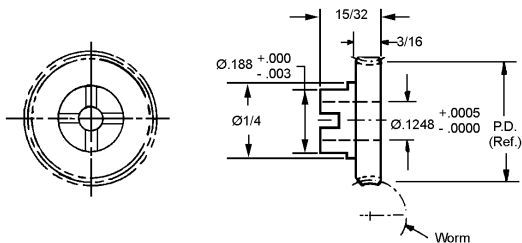
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	TYPE
48	SINGLE, DOUBLE OR FOUR THREAD PIN HUB	1/4"	3/16"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND



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°	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.		
W48B29-S30	W48B29-D30	W48B29-F30	30	.625
W48B29-S40	W48B29-D40	W48B29-F40	40	.833
W48B29-S50	W48B29-D50	W48B29-F50	50	1.042
W48B29-S60	W48B29-D60	W48B29-F60	60	1.250
W48B29-S70	W48B29-D70	W48B29-F70	70	1.458
W48B29-S80	W48B29-D80	W48B29-F80	80	1.667
W48B29-S90	W48B29-D90	W48B29-F90	90	1.875
W48B29-S100	W48B29-D100	W48B29-F100	100	2.083
W48B29-S120	W48B29-D120	W48B29-F120	120	2.500
W48B29-S180	W48B29-D180	W48B29-F180	180	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

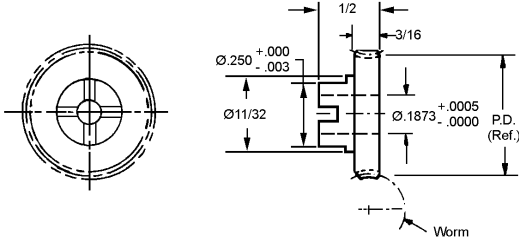


SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
CIRCULAR PITCH .0654 HELIX ANGLE 3° - 35° PRESSURE ANGLE 14-1/2°	CIRCULAR PITCH .1309 HELIX ANGLE 7° - 7° PRESSURE ANGLE 20°	CIRCULAR PITCH .2618 HELIX ANGLE 14° - 2° PRESSURE ANGLE 25°		
STOCK NO.	STOCK NO.	STOCK NO.		
W48B13-S30-C	W48B13-D30-C	W48B13-F30-C	30	.625
W48B13-S40-C	W48B13-D40-C	W48B13-F40-C	40	.833
W48B13-S50-C	W48B13-D50-C	W48B13-F50-C	50	1.042
W48B13-S60-C	W48B13-D60-C	W48B13-F60-C	60	1.250
W48B13-S70-C	W48B13-D70-C	W48B13-F70-C	70	1.458
W48B13-S80-C	W48B13-D80-C	W48B13-F80-C	80	1.667
W48B13-S90-C	W48B13-D90-C	W48B13-F90-C	90	1.875
W48B13-S100-C	W48B13-D100-C	W48B13-F100-C	100	2.083
W48B13-S120-C	W48B13-D120-C	W48B13-F120-C	120	2.500

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

PRECISION WORM GEARS

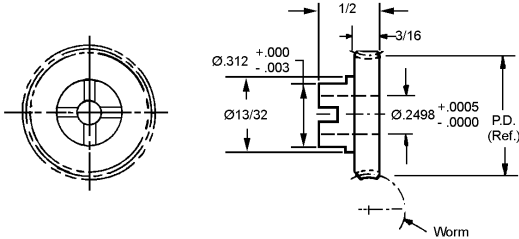
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	TYPE
48	SINGLE, DOUBLE OR FOUR THREAD CLAMP HUB	3/16"	3/16"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND



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° 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.		
W48B21-S30-C W48B21-S40-C W48B21-S50-C W48B21-S60-C W48B21-S70-C W48B21-S80-C W48B21-S90-C W48B21-S100-C W48B21-S120-C	W48B21-D30-C W48B21-D40-C W48B21-D50-C W48B21-D60-C W48B21-D70-C W48B21-D80-C W48B21-D90-C W48B21-D100-C W48B21-D120-C	W48B21-F30-C W48B21-F40-C W48B21-F50-C W48B21-F60-C W48B21-F70-C W48B21-F80-C W48B21-F90-C W48B21-F100-C W48B21-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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	TYPE
48	SINGLE, DOUBLE OR FOUR THREAD CLAMP 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-C W48B29-S40-C W48B29-S50-C W48B29-S60-C W48B29-S70-C W48B29-S80-C W48B29-S90-C W48B29-S100-C W48B29-S120-C W48B29-S180-C	W48B29-D30-C W48B29-D40-C W48B29-D50-C W48B29-D60-C W48B29-D70-C W48B29-D80-C W48B29-D90-C W48B29-D100-C W48B29-D120-C W48B29-D180-C	W48B29-F30-C W48B29-F40-C W48B29-F50-C W48B29-F60-C W48B29-F70-C W48B29-F80-C W48B29-F90-C W48B29-F100-C W48B29-F120-C W48B29-F180-C	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

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

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

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

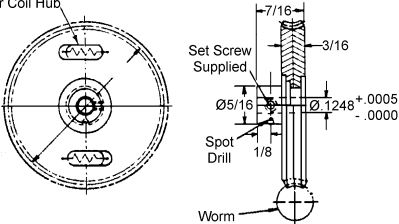
Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

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

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

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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

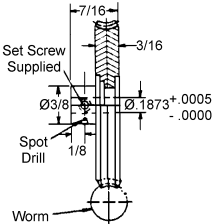
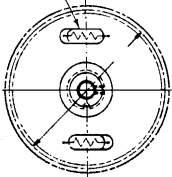
Pressure Angle 25°

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

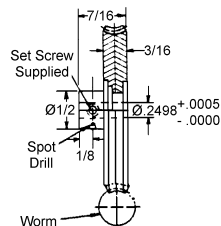
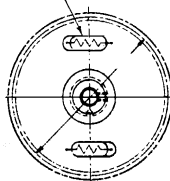
OR

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 HUB	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

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 HUB	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

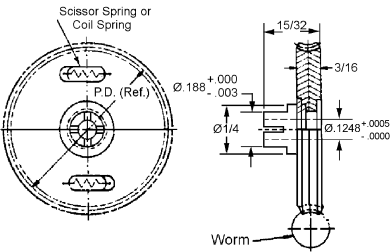
Pressure Angle 20°
Runs with worm #
W48S-2D
OR
W48S-3D

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
48	FOUR THREAD CLAMP HUB	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

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 HUB	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

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 HUB	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

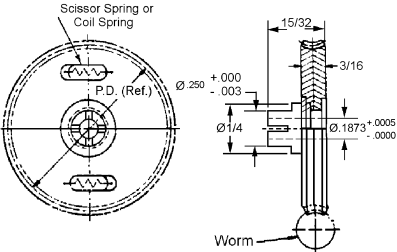
Pressure Angle 20°
Runs with worm #
W48S-2D
OR
W48S-3D

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
48	FOUR THREAD CLAMP HUB	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

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 HUB	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

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 HUB	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Pressure Angle 20°

Runs with worm #
W48S-2D
OR
W48S-3D

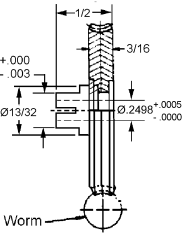
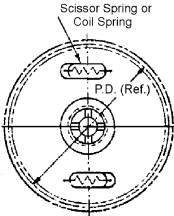
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
48	FOUR THREAD CLAMP HUB	1/4"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND

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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Pressure Angle 25°

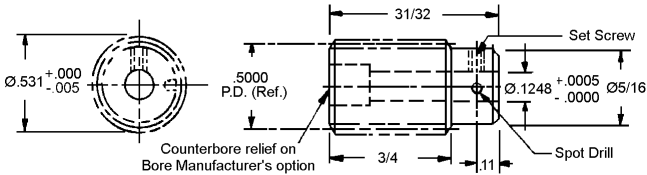
Runs with worm #
W48S-2F
OR
W48S-3F



Hub Material: 303 Stainless Steel

PRECISION WORMS

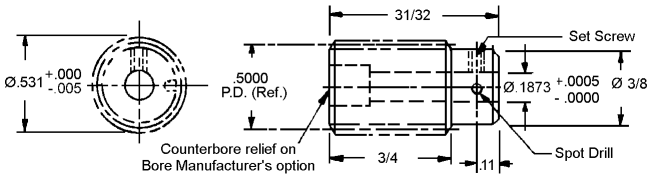
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
64	SINGLE, DOUBLE OR FOUR THREAD	1/8"	303 STAINLESS STEEL	10	RIGHT HAND



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.

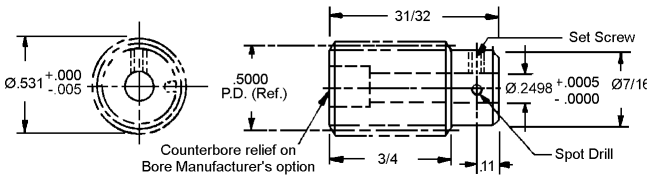
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	PRES. ANGLE
64	SINGLE, DOUBLE OR FOUR THREAD	3/16"	303 STAINLESS STEEL	10	RIGHT HAND



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

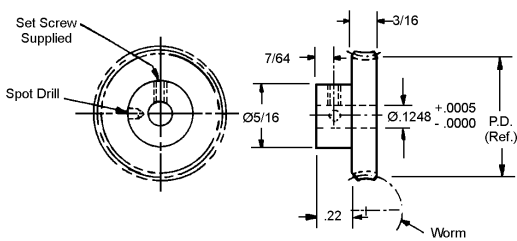


STOCK NO.	THREAD	LEAD	LEAD ANGLE	PRESSURE ANGLE
W64S-4S	SINGLE	.04908	1° - 47'	14-1/2°
W64S-4D	DOUBLE	.09817	3° - 35'	
W64S-4F	FOUR	.19635	7° - 8'	

Counterbore relief on bore manufacturer's option.

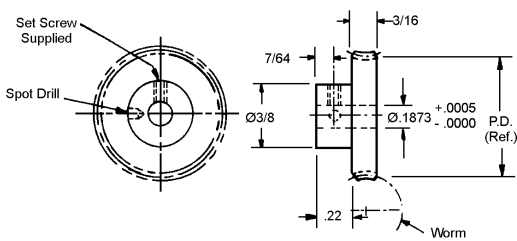
PRECISION WORM GEARS

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 = # of Teeth 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 = # of Teeth 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.

B

Technical drawing of a worm gear assembly. The left view is a front view showing concentric circles with labels: "Set Screw Supplied" pointing to the outermost circle, and "Spot Drill" pointing to the center. The right view is a side view showing the worm gear profile with the following dimensions and labels:

- Top width: 3/16
- Inner width: 7/64
- Outer diameter: $\varnothing 1/2$
- Inner diameter: $\varnothing 2.489^{+0.0005}_{-0.0000}$
- Pitch Diameter (P.D.): (Ref.)
- Bottom width: .22
- Label: "Worm" pointing to the gear profile.


$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

The drawing consists of two views of a worm gear assembly. The left view is a front view showing a circular gear with a central hole. The right view is a side view showing the profile of the gear teeth and the worm. Dimensions are provided for both views.

Front View Dimensions:

- Outer diameter: $\varnothing 188^{+0.00}_{-.003}$
- Inner diameter: $\varnothing 1/4$

Side View Dimensions:

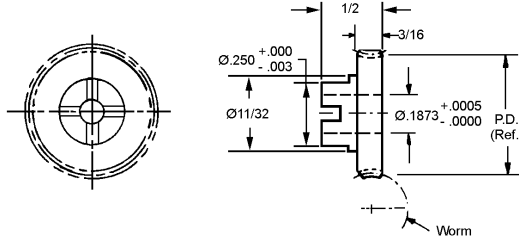
- Worm addendum: $15/32$
- Worm dedendum: $3/16$
- Worm pitch diameter: $\varnothing 1248^{+0.0005}_{-.0000}$
- Worm pitch diameter reference: P.D. (Ref.)

A dashed line indicates the worm's position relative to the gear teeth.

$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$
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PRECISION WORM GEARS

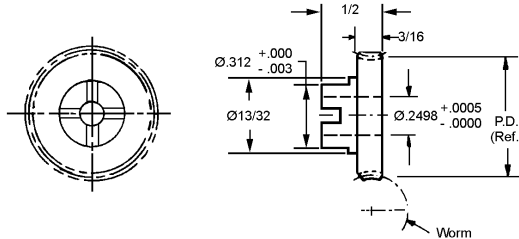
PITCH	STYLE	BORE	FACE	MATERIAL	AGMA QUALITY	TYPE
64	SINGLE, DOUBLE OR FOUR THREAD CLAMP HUB	3/16"	3/16"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND



SINGLE THREAD WORM	DOUBLE THREAD WORM	FOUR THREAD WORM	NO. OF TEETH	PITCH DIA.
CIRCULAR PITCH .04908 HELIX ANGLE 1° - 47' PRESSURE ANGLE 14-1/2° STOCK NO.	CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° STOCK NO.	CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° STOCK NO.		
W64B21-S40-C W64B21-S50-C W64B21-S60-C W64B21-S70-C W64B21-S80-C W64B21-S90-C W64B21-S100-C W64B21-S110-C W64B21-S120-C	W64B21-D40-C W64B21-D50-C W64B21-D60-C W64B21-D70-C W64B21-D80-C W64B21-D90-C W64B21-D100-C W64B21-D110-C W64B21-D120-C	W64B21-F40-C W64B21-F50-C W64B21-F60-C W64B21-F70-C W64B21-F80-C W64B21-F90-C W64B21-F100-C W64B21-F110-C W64B21-F120-C	40 50 60 70 80 90 100 110 120	.625 .781 .937 1.093 1.250 1.406 1.562 1.719 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 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° STOCK NO.	CIRCULAR PITCH .09817 HELIX ANGLE 3° - 35' PRESSURE ANGLE 14-1/2° STOCK NO.	CIRCULAR PITCH .19635 HELIX ANGLE 7°-8' PRESSURE ANGLE 14-1/2° STOCK NO.		
W64B29-S40-C W64B29-S50-C W64B29-S60-C W64B29-S70-C W64B29-S80-C W64B29-S90-C W64B29-S100-C W64B29-S110-C W64B29-S120-C	W64B29-D40-C W64B29-D50-C W64B29-D60-C W64B29-D70-C W64B29-D80-C W64B29-D90-C W64B29-D100-C W64B29-D110-C W64B29-D120-C	W64B29-F40-C W64B29-F50-C W64B29-F60-C W64B29-F70-C W64B29-F80-C W64B29-F90-C W64B29-F100-C W64B29-F110-C W64B29-F120-C	40 50 60 70 80 90 100 110 120	.625 .781 .937 1.093 1.250 1.406 1.562 1.719 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

B

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

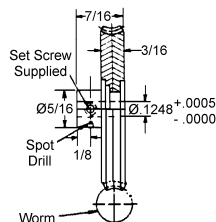
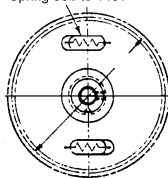
$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

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

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

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

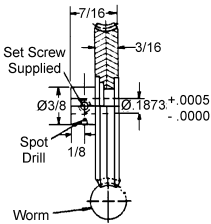
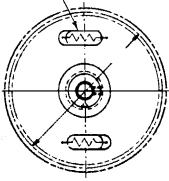
Hub Material: 303 Stainless Steel
Other numbers of teeth are available on request.

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



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

B

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

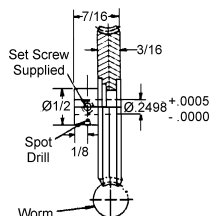
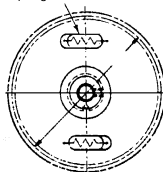
$$\text{Ratio} = \frac{\# \text{ of Teeth}}{\text{Worm Threads}}$$

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 HUB	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

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 HUB	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Pressure Angle 14/1/2°

Runs with worm # W64S-2D

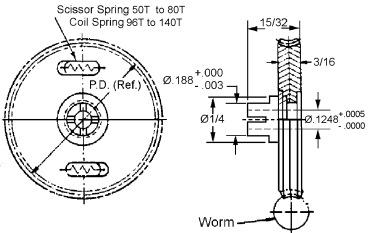
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
64	FOUR THREAD CLAMP HUB	1/8"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND

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

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 HUB	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Pressure Angle 14/1/2°

Runs with worm # W64S-3S

B

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
64	DOUBLE THREAD CLAMP HUB	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

Ratio = $\frac{\text{\# of Teeth}}{\text{Worm Threads}}$

Pressure Angle 14/1/2°

Runs with worm # W64S-3D

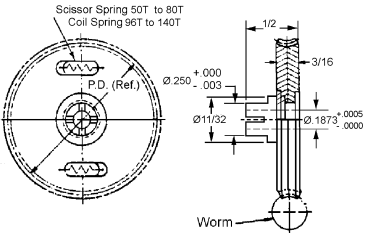
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
64	FOUR THREAD CLAMP HUB	3/16"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND

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

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 HUB	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 $14\frac{1}{2}^\circ$

Runs with worm # W64S-4S

PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
64	DOUBLE THREAD CLAMP HUB	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 $14\frac{1}{2}^\circ$

Runs with worm # W64S-4D

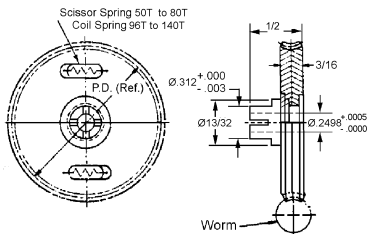
PITCH	STYLE	BORE	MATERIAL	AGMA QUALITY	TYPE
64	FOUR THREAD CLAMP HUB	1/4"	BRONZE QQ-B-637 ALLOY 464	10	RIGHT HAND

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 $14\frac{1}{2}^\circ$

Runs with worm # W64S-4F



Hub Material: 303 Stainless Steel

Other numbers of teeth are available on request.

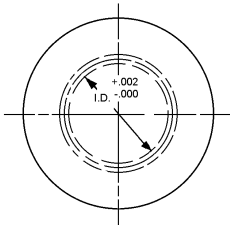
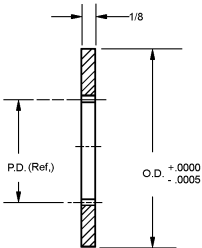
INTERNAL GEARS

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	
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 dimesions apply to all pitches.
Special internal gears on request.

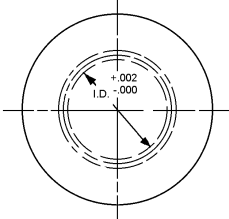
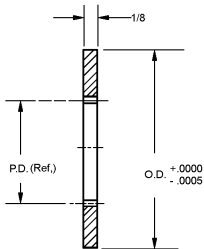
INTERNAL GEARS

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	3.208
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	2.9980
N64S3-90	N64A3-90	90	1.4063	1.375	
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	3.9980
N64S3-160	N64A3-160	160	2.5000	2.468	
N64S4-160	N64A4-160	160	2.5000	2.468	
N64S4-170	N64A4-170	170	2.6563	2.625	
N64S4-180	N64A4-180	180	2.8125	2.781	3.093
N64S4-192	N64A4-192	192	3.0000	2.968	
N64S4-200	N64A4-200	200	3.1250	3.093	



Drawing and dimensons apply to all pitches.
Special internal gears on request.

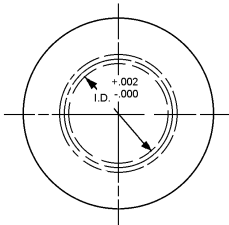
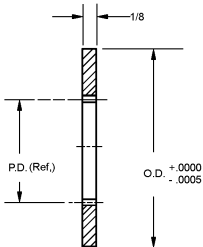
INTERNAL GEARS

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	3.9980
N72S4-180	N72A4-180	180	2.5000	2.472	
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	3.9980
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	2.9980
N96S3-150	N96A3-150	150	1.5625	1.542	
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	3.9980
N96S3-240	N96A3-240	240	2.5000	2.480	
N96S4-240	N96A4-240	240	2.5000	2.480	
N96S4-250	N96A4-250	250	2.6042	2.584	
N96S4-260	N96A4-260	260	2.7083	2.688	3.9980
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	

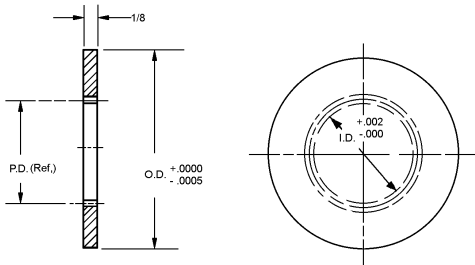


Drawing and dimensions apply to all pitches.
Special internal gears on request.

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 dimenions apply to all pitches.
Special internal gears on request.

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