



1 - Gears



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NOTE: For each product group, gears are arranged from the finest pitch to the coarsest pitch. Where applicable, within the same pitch, gears are arranged with the hub type or pin type first, followed by clamp type and hubless gears.

Stock Gear Locator Chart - 120 thru 72 Pitch

Pitch	Starting Page	Gear Type										Material							
		Commercial Quality	Precision Quality	Hub Type	Spur	Miter or Bevel	Worm/Worm Gear	Helical	Internal	Rack	Pinion	Stainless Steel	Steel	Brass / Bronze	Aluminum	INTECH Power-Core™	Nylon	Acetal	SUPER-PLAST®
120	1-9																		
	1-25			S															
	1-27			H															
	1-141			F, S, C	A														
	1-160			F, S, C	A														
	1-188																		
1-189																			
96	1-9																		
	1-28			S															
	1-31			S															
	1-32			S															
	1-33			C															
	1-34			H															
	1-35			H	D														
	1-144			F, S, C	A														
	1-162			F, S, C	A														
	1-188																		
1-189																			
1-190																			
80	1-9																		
	1-36																		
	1-38																		
	1-39																		
	1-147			S, C	A														
	1-164			F, S, C	A														
	1-170			S	L														
	1-171			S	L														
	1-188																		
1-190																			
72	1-9																		
	1-40			S															
	1-45			F, H															
	1-46			S, H															
	1-47			C															
	1-50			H															
	1-51			H															
	1-52			H	D														
	1-149			F, S, C	A														
	1-166			F, S, C	A														
	1-184																		
	1-188																		
	1-190																		
1-192			S																

NOTE: For Slip Clutch Flange Mounting Spur Gears, see Section 13.

Key:

Hub Type	Spur Gear Type
C - Clamp	A - Anti-Backlash
F - Fairloc	D - Differential End Gear
H - Hubless	R - Hardened
P - Plain Hub	L - Cluster
S - Pin (Set Screw)	

Stock Gear Locator Chart - 64 thru 48 Pitch

Pitch	Starting Page	Gear Type										Material								
		Commercial Quality	Precision Quality	Hub Type	Spur	Miter or Bevel	Worm/Worm Gear	Helical	Internal	Rack	Pinion	Stainless Steel	Steel	Brass / Bronze	Aluminum	INTECH Power-Core™	Nylon	Acetal	SUPER-PLAST®	
64	1-9																			
	1-11			H																
	1-53			S																
	1-60			F, H																
	1-61			S, H																
	1-62			S																
	1-63			C																
	1-67			H																
	1-68			H																
	1-69			H																
	1-70			H	D															
	1-152			F, S, C	A															
	1-168			F, S, C	A															
	1-173			S	L															
	1-177																			
	1-185																			
	1-188																			
	1-189																			
1-190																				
1-194			S																	
1-201			S																	
1-202			S, C		A															
48	1-9																			
	1-12			H																
	1-16			S	R															
	1-71			F																
	1-72			S																
	1-79			F, H																
	1-80			S, H																
	1-81			P																
	1-82			S																
	1-83			S																
	1-84			P																
	1-86			P																
	1-87			C																
	1-90			H																
	1-92			H																
	1-93			H																
	1-95			H																
	1-96			H																
1-97			H																	
1-91			H	D																
1-190																				

NOTE: For Slip Clutch Flange Mounting Spur Gears, see Section 13.

48 Pitch continued on next page

Key:

Hub Type
 C - Clamp
 F - Fairloc
 H - Hubless
 P - Plain Hub
 S - Pin (Set Screw)

Spur Gear Type
 A - Anti-Backlash
 D - Differential End Gear
 R - Hardened
 L - Cluster

Stock Gear Locator Chart - 48 thru 32 Pitch

Pitch	Starting Page	Gear Type										Material							
		Commercial Quality	Precision Quality	Hub Type	Spur	Miter or Bevel	Worm/Worm Gear	Helical	Internal	Rack	Pinion	Stainless Steel	Steel	Brass / Bronze	Aluminum	INTECH Power-Core™	Nylon	Acetal	SUPER-PLAST®
48	1-155			F, S, C															
	1-175			S															
	1-178																		
	1-182			S															
	1-185																		
	1-187																		
	1-188																		
	1-189																		
	1-191																		
	1-196			S															
	1-198			P															
	1-199			P															
	1-203			S															
	1-204			S,C		A													
	1-205			P															
1-214			P																
1-215			S																
32	1-13			H															
	1-19			S															
	1-98			F															
	1-99			S															
	1-102			P															
	1-103			P															
	1-104			F, H															
	1-105			S, H															
	1-106			S															
	1-107			P															
	1-108			P															
	1-109			P															
	1-110			C															
	1-111			H															
	1-112			H															
	1-113			H															
	1-114			H															
	1-116			H															
	1-117			H															
	1-118			H															
1-119			H																
1-158			S,C																
1-179																			
1-186																			
1-187																			
1-190																			

NOTE: For Slip Clutch Flange Mounting Spur Gears, see Section 13.

32 Pitch continued on next page

Key:

Hub Type

- C - Clamp
- F - Fairloc
- H - Hubless
- P - Plain Hub
- S - Pin (Set Screw)

Spur Gear Type

- A - Anti-Backlash
- D - Differential End Gear
- R - Hardened
- L - Cluster

Stock Gear Locator Chart - 32 thru 16 Pitch

Pitch	Starting Page	Gear Type										Material							
		Commercial Quality	Precision Quality	Hub Type	Spur	Miter or Bevel	Worm/Worm Gear	Helical	Internal	Rack	Pinion	Stainless Steel	Steel	Brass / Bronze	Aluminum	INTECH Power-Core™	Nylon	Acetal	SUPER-PLAST®
32	1-188																		
	1-189																		
	1-191																		
	1-192		P																
	1-199		P																
	1-208		P																
	1-214		P																
	1-216		S																
24	1-14		H																
	1-22		S	R															
	1-121		F																
	1-122		S																
	1-125		P																
	1-126		P																
	1-127		F, H																
	1-128		S, H																
	1-129		S																
	1-130		P																
	1-131		P																
	1-132		C																
	1-133		H																
	1-134		H																
	1-135		H																
	1-136		H																
	1-137		H																
	1-159		S, C	A															
	1-179																		
	1-183		H				R												
1-187																			
1-188																			
1-189																			
1-190																			
1-191																			
1-198		P																	
1-199		P																	
1-211		P																	
1-214		P																	
1-215		S																	
20	1-181																		
	1-183		H				R												
	1-190																		
1-198		P																	
16	1-139		H																
	1-140		P																
	1-190																		
	1-191																		
1-199		P																	

Key:
 C - Clamp
 F - Fairloc
 H - Hubless
 P - Plain Hub
 S - Pin (Set Screw)

Spur Gear Type
 A - Anti-Backlash
 D - Differential End Gear
 R - Hardened
 L - Cluster

Cast nylon (Polyamide-12) used on Power-Core™ gears, reduces the dimensional and physical property variations found on other nonmetallic materials. Its low moisture absorption characteristics limits its swelling or expansion to less than 0.3%. Cast nylon 12 is generally used for precision engineered components, needing properties such as dimensional stability, high temperature and toughness. Gravity casting process is developed especially to provide nylon 12's crystallization structure.



Selecting Nonmetallic Gear Materials

Benefits	Power-Core™	Metal	Delrin®	Nylon 6	Phenolic Fiber
Noise Reduction	>6dB	0	>3dB	>3dB	>3dB
Shock Absorption	○		○	○	Some
Vibration Damping	○		○	○	Some
Corrosion Resistance	○		○	○	Some
Nonhygroscopic, No Swelling	○	○	○		
Light Weight	○		○	○	○
Wear Resistance	○		○	○	Some
Self-Lubricating	○		○	○	Lubr. Recomm.
Free of Internal Stresses	○	○			
Homogeneous Crystalline Structure	○	○			
Metal Core – Part of Gear Blank	○	N/A			
Keyway in Metal if Needed	○	○			
Large Size Gear Blanks	○	○			
High AGMA Class Achievable	○	○			
Physical Properties and Dimensions Stable in Varying Conditions	○	○			

- NOTE:** 1. The data has been determined empirically. For details on other materials, please contact the manufacturer.
2. Delrin® is a registered trademark of DuPont.

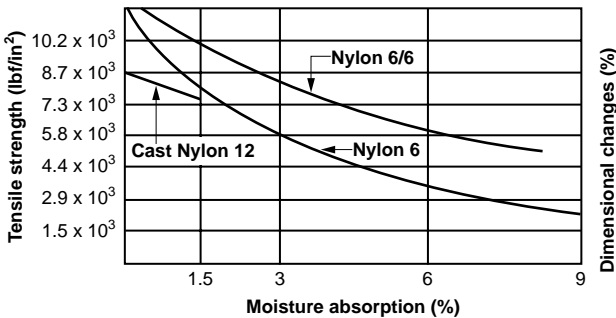
Stock gears using INTECH Power-Core™ material are shown on pages 1-95, 1-117, 1-136 & 1-139.

S INCH INTECH Power-Core™ Gears General Info.

Power-Core™ gears are made by integrally casting a polyamide 12 nylon outer ring with a metal knurled hub. After cooling, the gear blank is virtually stress-free and can be precision machined to provide gear teeth.

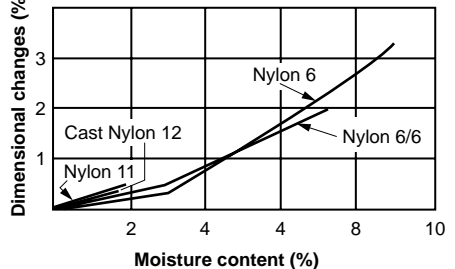
The metal hub used on this gear reduces thermal expansion. Gear calculation for Power-Core™ gears does not require backlash compensation because of swelling, due to very small moisture absorption.

Moisture absorption versus tensile strength



With moisture absorption, tensile strength of nylon 6 can drop to below 20%, while for cast nylon 12 it remains stable within 90% of its original value.

Dimensional change polyamides versus moisture



Physical Properties Table

Physical Characteristics	
Density	0.037 lb/in³
Coefficient of Friction	0.304 (Static)
Melting Point	358°F
Hardness	108 Rockwell R
Water Absorption	0.047%

Mechanical Characteristics	
Compressive Stress at 0.1% compr.	6,500 PSI
Extension Stress	8,500 PSI
Tensile Strength (ultimate)	8,400 PSI
Elasticity Modulus	2.95 × 10⁵ PSI
Flexural Modulus	3.04 × 10⁵ PSI
Elongation	16%

NOTE: It is important to understand that testing procedures permit manufacturers to measure tensile strength directly after extrusion, or in a dry state and before submersion. Therefore, the values used in the "Physical Properties Table" are only theoretical and may be misleading for two reasons:

- After production, most nylons are submerged in water to relieve internal tension.
- Operating environments may present still different and varying degrees for moisture.

This information is for reference only; to supply actual durability information, we will be glad to perform a durability calculation for your specific application.

Knurled Metal Core Advantages Over Hexagonal and Notched Metal Core

The knurled core provides better torque transmission and even heat dissipation from the shaft through the metal to the gear teeth. The knurled core has replaced the hexagonal and notched metal cores in INTECH's manufacturing procedure. The knurled core also allows a more uniform wall thickness in relation to both bore and root diameter, especially in borderline cases.

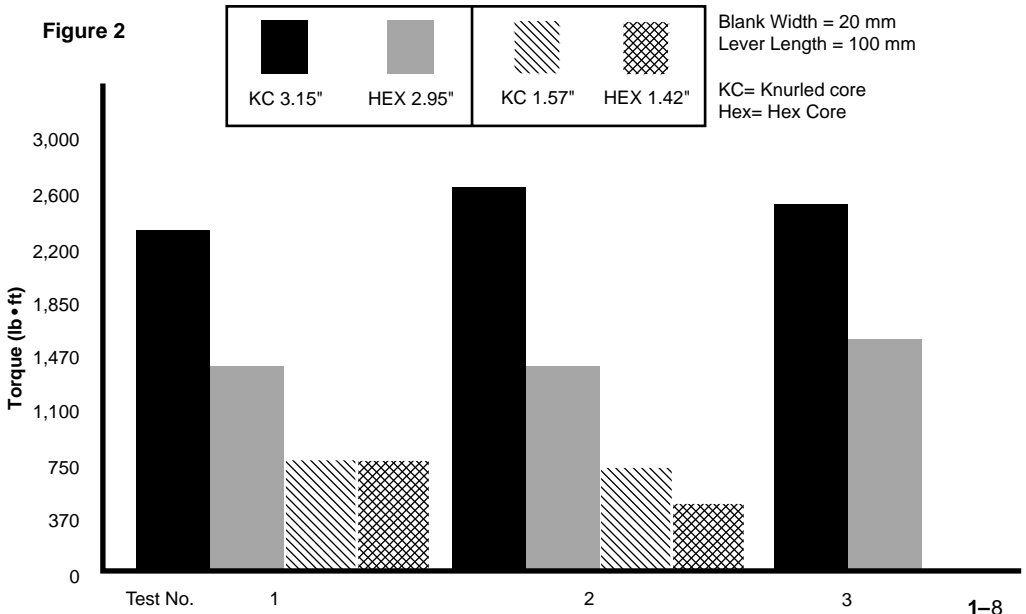
As shown in Figure 1 and 2, tests performed on comparable core sizes determined that the knurled core can withstand up to 80% higher torque than the hexagonal core.

Breakaway torque is defined as the maximum torque value at which the metal core begins to twist out of the plastic.

Figure 1

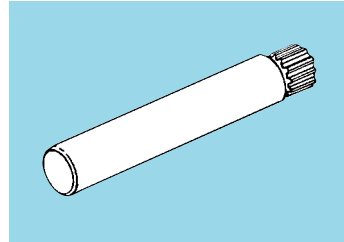
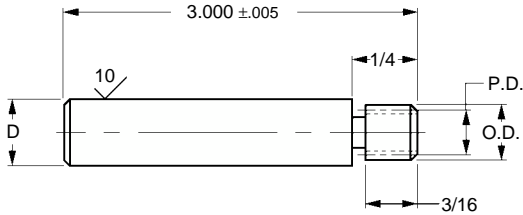
Determination of Breakaway Torque						
Test No:	Axial Force (lbf)			Breakaway Torque (lb • ft)		
	1	2	3	1	2	3
Knurled Core 3.15"	7014	8003	7464	2301	2626	2449
Hexagonal Core 2.95"	4361	4316	4856	1431	1416	1593
Knurled Core 1.57"	2248	2158	–	737.5	708	–
Hexagonal Core 1.42"	2248	1349	–	737.5	443	–

Torque Required to Begin Twisting Metal Hub In Plastic



■ AGMA Q10

■ 20° PRESSURE ANGLE



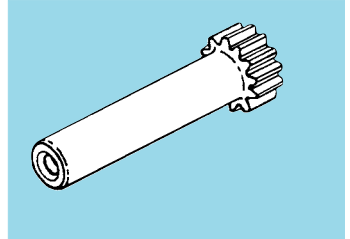
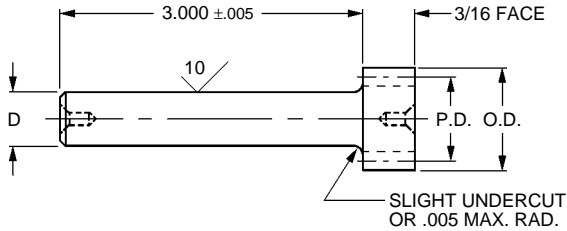
MATERIAL: 303 Stainless Steel

Catalog Number	Pitch	No. of Teeth	P.D.	O.D. +.000 -.002	D +.0000 -.0002
S1G84Z-096S10	96	10	.1042	.125	.1247
S1G84Z-120S12	120	12	.1000	.117	
S1G85Z-072S10	72	10	.1389	.167	.1872
S1G85Z-080S10	80	10	.1250	.150	
S1G85Z-080S12	80	12	.1500	.175	
S1G85Z-096S10	96	10	.1042	.125	
S1G85Z-096S11	96	11	.1146	.135	
S1G85Z-096S12	96	12	.1250	.146	
S1G85Z-096S14	96	14	.1458	.167	.2497
S1G87Z-048S10	48	10	.2083	.250	
S1G87Z-064S12	64	12	.1875	.219	
S1G87Z-064S14	64	14	.2188	.250	
S1G87Z-072S14	72	14	.1944	.222	
S1G87Z-072S16	72	16	.2222	.250	
S1G87Z-080S10	80	10	.1250	.150	.188
S1G87Z-080S12	80	12	.1500	.175	
S1G87Z-080S14	80	14	.1750	.200	
S1G87Z-080S16	80	16	.2000	.225	
S1G87Z-080S18	80	18	.2250	.250	
S1G87Z-096S16	96	16	.1667	.188	
S1G87Z-096S18	96	18	.1875	.208	

Available on special order: other lengths, teeth not listed, passivation.

■ AGMA Q10

■ 20° PRESSURE ANGLE



MATERIAL: 303 Stainless Steel

Catalog Number	Pitch	No. of Teeth	P.D.	O.D. +.000 -.002	D +.0000 -.0002
S1H84Z-064S16	64	16	.2500	.281	.1247
S1H84Z-064S20	64	20	.3125	.344	
S1H84Z-072S18	72	18	.2500	.278	
S1H84Z-072S24	72	24	.3333	.361	
S1H84Z-080S20	80	20	.2500	.275	.1872
S1H84Z-096S24	96	24	.2500	.271	
S1H84Z-096S32	96	32	.3333	.354	
S1H85Z-048S12	48	12	.2500	.292	
S1H85Z-048S18	48	18	.3750	.417	.2497
S1H85Z-064S16	64	16	.2500	.281	
S1H85Z-064S20	64	20	.3125	.344	
S1H85Z-072S18	72	18	.2500	.278	
S1H85Z-072S24	72	24	.3333	.361	.2497
S1H85Z-080S20	80	20	.2500	.275	
S1H87Z-024S12	24	12	.5000	.583	
S1H87Z-032S16	32	16	.5000	.563	
S1H87Z-048S12	48	12	.2500	.292	.2497
S1H87Z-048S18	48	18	.3750	.417	
S1H87Z-064S16	64	16	.2500	.281	
S1H87Z-064S20	64	20	.3125	.344	
S1H87Z-064S24	64	24	.3750	.406	

Available on special order: other lengths, teeth not listed, passivation.

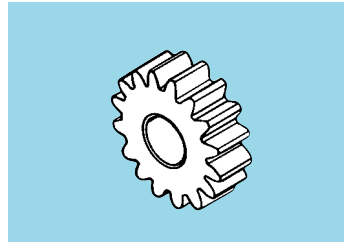
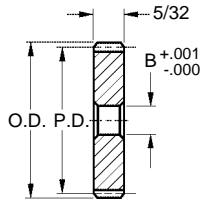


Pinions - 64 Pitch

■ 20° PRESSURE ANGLE

■ HUBLESS

■ 5/32 FACE WIDTH



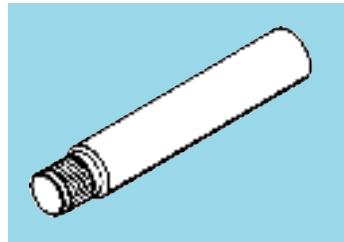
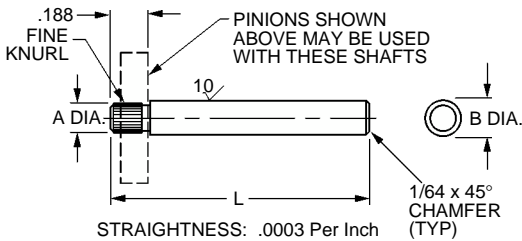
MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B 1-Y64008	8	.125	.156	.064
A 1B 1-Y64009	9	.141	.172	.064
A 1B 1-Y64010	10	.156	.188	.094
A 1B 1-Y64012	12	.188	.219	.094
A 1B 1-Y64014	14	.219	.250	.094
A 1B 1-Y64015	15	.234	.266	.125
A 1B 1-Y64016	16	.250	.281	.125
A 1B 1-Y64018	18	.281	.313	.125



Pinion Shafts

■ UNDERSIZED DIAMETER



MATERIAL: 303 Stainless Steel

Catalog Number	A Dia. +.000 -.001	B Dia. +.0000 -.0002	L Length ± .010
A 7X 1-P0602A	.064	.1872	2.00
A 7X 1-P0602B	.094		
A 7X 1-P0803	.125	.2497	3.00

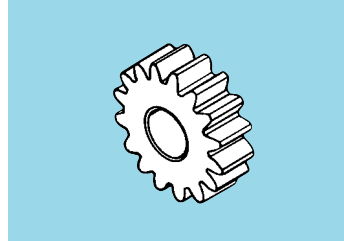
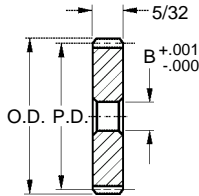


Pinions - 48 Pitch

■ 20° PRESSURE ANGLE

■ HUBLESS

■ 5/32 FACE WIDTH



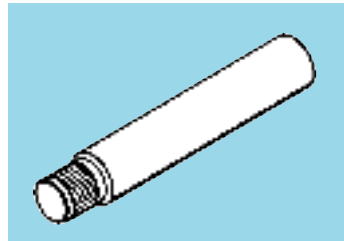
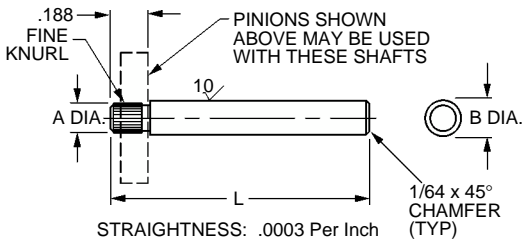
MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B 1-Y48007	7	.146	.188	
A 1B 1-Y48008	8	.167	.208	.064
A 1B 1-Y48009	9	.188	.229	
A 1B 1-Y48010	10	.208	.250	.094
A 1B 1-Y48011	11	.229	.271	
A 1B 1-Y48012	12	.250	.292	
A 1B 1-Y48013	13	.271	.312	.125
A 1B 1-Y48014	14	.292	.333	
A 1B 1-Y48015	15	.312	.354	



Pinion Shafts

■ UNDERSIZED DIAMETER



MATERIAL: 303 Stainless Steel

Catalog Number	A Dia. +.000 -.001	B Dia. +.0000 -.0002	L Length ±.010
A 7X 1-P0602A	.064	.1872	2.00
A 7X 1-P0602B	.094		
A 7X 1-P0803	.125	.2497	3.00

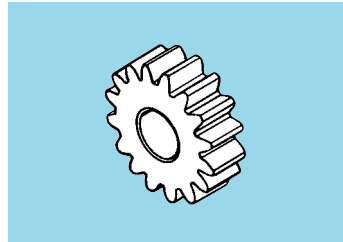
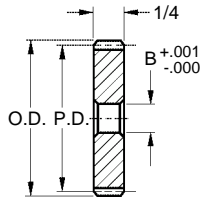


Pinions - 32 Pitch

■ 20° PRESSURE ANGLE

■ HUBLESS

■ 1/4 FACE WIDTH



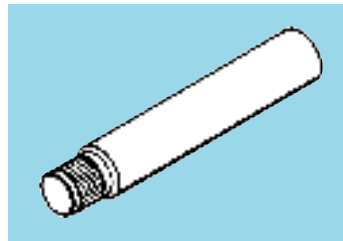
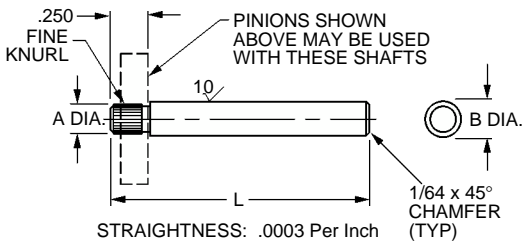
MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B 1-Y32009	9	.281	.344	.125
A 1B 1-Y32010	10	.312	.375	
A 1B 1-Y32011	11	.344	.406	
A 1B 1-Y32012	12	.375	.438	.188
A 1B 1-Y32014	14	.438	.500	
A 1B 1-Y32015	15	.469	.531	
A 1B 1-Y32016	16	.500	.562	



Pinion Shafts

■ UNDERSIZED DIAMETER



MATERIAL: 303 Stainless Steel

Catalog Number	A Dia. +.000 -.001	B Dia. +.0000 -.0002	L Length ±.010
A 7X 1-P1002	.125	.3122	2.00
A 7X 1-P1203	.188	.3747	3.00

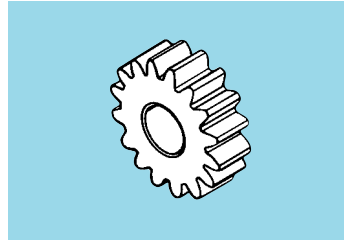
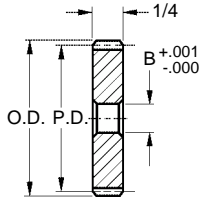


Pinions - 24 Pitch

■ 20° PRESSURE ANGLE

■ HUBLESS

■ 1/4 FACE WIDTH



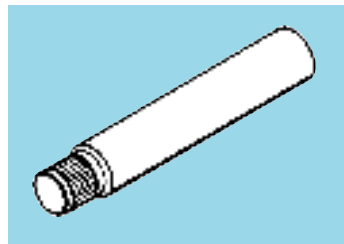
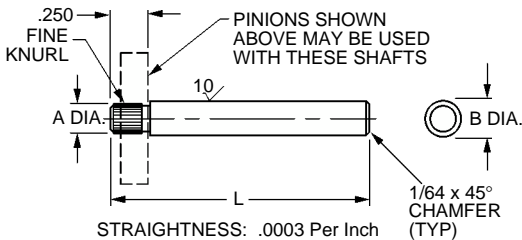
MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B 1-Y24007	7	.292	.375	.125
A 1B 1-Y24008	8	.333	.416	
A 1B 1-Y24009	9	.375	.458	
A 1B 1-Y24010	10	.416	.500	
A 1B 1-Y24011	11	.458	.542	.188
A 1B 1-Y24012	12	.500	.583	
A 1B 1-Y24014	14	.583	.667	
A 1B 1-Y24015	15	.625	.708	



Pinion Shafts

■ UNDERSIZED DIAMETER



MATERIAL: 303 Stainless Steel

Catalog Number	A Dia. +.000 -.001	B Dia. +.0000 -.0002	L Length ±.010
A 7X 1-P1002	.125	.3122	2.00
A 7X 1-P1203	.188	.3747	3.00

■ AGMA 10

■ 20° PRESSURE ANGLE

Sterling Hardened Spur Gears (AGMA 10) are made of tough alloy steel heat-treated by a proprietary diffusion coating process, which gives high surface hardness and very good corrosion resistance. The core hardness is R_C38 . The surface hardness is R_C55 or higher. The finish is black due to the final heat treatment and it may be omitted from the bore. The combination of good quality, tough core and high surface hardness, make these gears a very attractive alternative to the much more expensive hardened and ground gears. The corrosion resistant surface combined with appropriate lube make them work in any harsh environment, under extremely heavy loads.

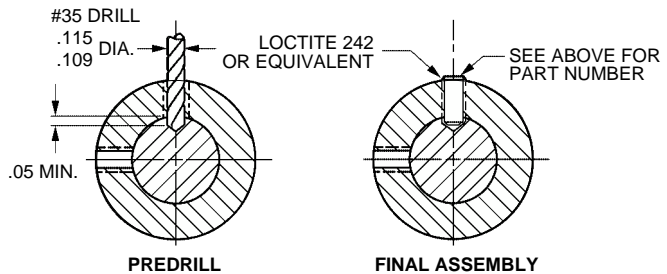
The gears have two tapped #8-32 UNC holes located at 90°. Two cup point 1/8-8 stainless steel set screws are supplied with the gears. The suggested mounting configurations for higher torque are given in figures 1 and 2.

For half dog set screw mounting (**Fig. 1**) the following set screws can be used:

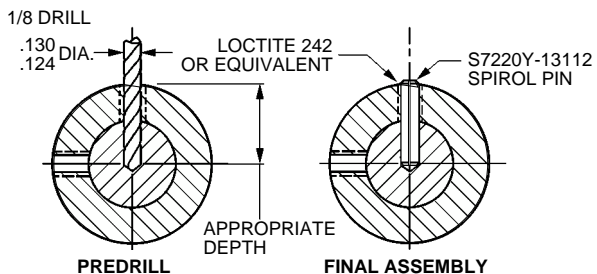
Set Screw Catalog Number	Set Screw Length	Bore
S705ZY-D0832H05	5/16	1/4
S705ZY-D0832H04	1/4	3/8
S705ZY-D0832H03	3/16	1/2

See index for other sizes of available half dog set screws.

**Fig. 1
HALF DOG
SET SCREW MOUNTING**
(Medium Torque – All Bores)



**Fig. 2
SPIROL PIN MOUNTING**
(Medium and High Torque
for 1/2" Bores)



S INCH**Hardened Spur Gears - 48 Pitch**

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 & 3/8 FACE

■ 1/4 BORE

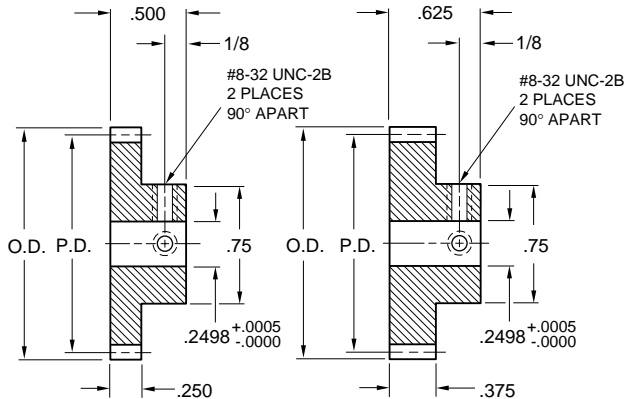
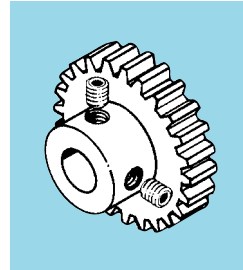


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A6Z-048H036	S10C6Z-048H036	36	0.7500	0.792
S10A6Z-048H040	S10C6Z-048H040	40	0.8333	0.875
S10A6Z-048H044	S10C6Z-048H044	44	0.9167	0.958
S10A6Z-048H048	S10C6Z-048H048	48	1.0000	1.042
S10A6Z-048H050	S10C6Z-048H050	50	1.0417	1.083
S10A6Z-048H056	S10C6Z-048H056	56	1.1667	1.208
S10A6Z-048H060	S10C6Z-048H060	60	1.2500	1.292
S10A6Z-048H064	S10C6Z-048H064	64	1.3333	1.375
S10A6Z-048H072	S10C6Z-048H072	72	1.5000	1.542
S10A6Z-048H080	S10C6Z-048H080	80	1.6667	1.708
S10A6Z-048H084	S10C6Z-048H084	84	1.7500	1.792
S10A6Z-048H090	S10C6Z-048H090	90	1.8750	1.917
S10A6Z-048H096	S10C6Z-048H096	96	2.0000	2.042
S10A6Z-048H100	S10C6Z-048H100	100	2.0833	2.125
S10A6Z-048H108	S10C6Z-048H108	108	2.2500	2.292
S10A6Z-048H120	S10C6Z-048H120	120	2.5000	2.542
S10A6Z-048H132	S10C6Z-048H132	132	2.7500	2.792
S10A6Z-048H144	S10C6Z-048H144	144	3.0000	3.042
S10A6Z-048H156	S10C6Z-048H156	156	3.2500	3.292
S10A6Z-048H168	S10C6Z-048H168	168	3.5000	3.542
S10A6Z-048H180	S10C6Z-048H180	180	3.7500	3.792
S10A6Z-048H192	S10C6Z-048H192	192	4.0000	4.042

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

S INCH**Hardened Spur Gears - 48 Pitch**

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 & 3/8 FACE

■ 3/8 BORE

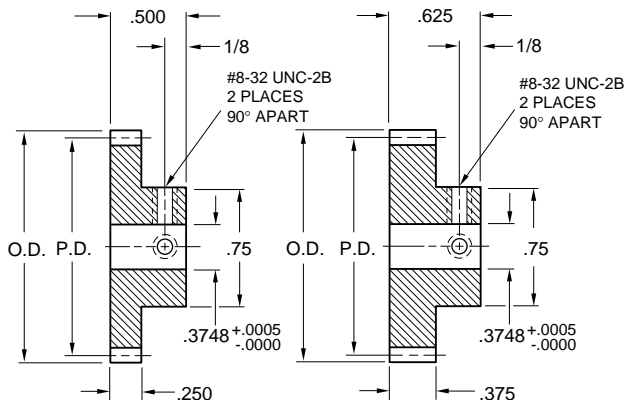
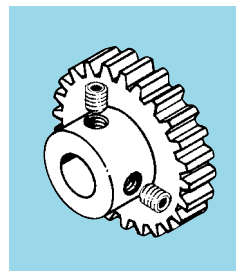


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A8Z-048H036	S10C8Z-048H036	36	0.7500	0.792
S10A8Z-048H040	S10C8Z-048H040	40	0.8333	0.875
S10A8Z-048H044	S10C8Z-048H044	44	0.9167	0.958
S10A8Z-048H048	S10C8Z-048H048	48	1.0000	1.042
S10A8Z-048H050	S10C8Z-048H050	50	1.0417	1.083
S10A8Z-048H056	S10C8Z-048H056	56	1.1667	1.208
S10A8Z-048H060	S10C8Z-048H060	60	1.2500	1.292
S10A8Z-048H064	S10C8Z-048H064	64	1.3333	1.375
S10A8Z-048H072	S10C8Z-048H072	72	1.5000	1.542
S10A8Z-048H080	S10C8Z-048H080	80	1.6667	1.708
S10A8Z-048H084	S10C8Z-048H084	84	1.7500	1.792
S10A8Z-048H090	S10C8Z-048H090	90	1.8750	1.917
S10A8Z-048H096	S10C8Z-048H096	96	2.0000	2.042
S10A8Z-048H100	S10C8Z-048H100	100	2.0833	2.125
S10A8Z-048H108	S10C8Z-048H108	108	2.2500	2.292
S10A8Z-048H120	S10C8Z-048H120	120	2.5000	2.542
S10A8Z-048H132	S10C8Z-048H132	132	2.7500	2.792
S10A8Z-048H144	S10C8Z-048H144	144	3.0000	3.042
S10A8Z-048H156	S10C8Z-048H156	156	3.2500	3.292
S10A8Z-048H168	S10C8Z-048H168	168	3.5000	3.542
S10A8Z-048H180	S10C8Z-048H180	180	3.7500	3.792
S10A8Z-048H192	S10C8Z-048H192	192	4.0000	4.042

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

S INCH

Hardened Spur Gears - 48 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/4 & 3/8 FACE
- 1/2 BORE

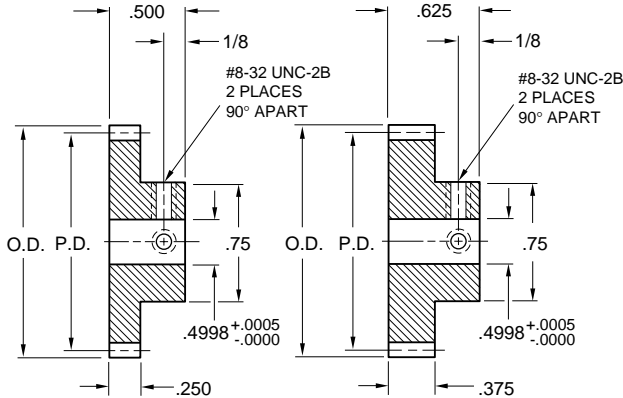
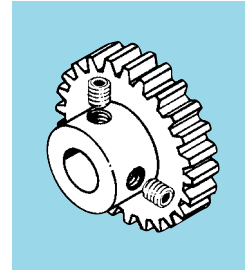


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A9Z-048H036	S10C9Z-048H036	36	0.7500	0.792
S10A9Z-048H040	S10C9Z-048H040	40	0.8333	0.875
S10A9Z-048H044	S10C9Z-048H044	44	0.9167	0.958
S10A9Z-048H048	S10C9Z-048H048	48	1.0000	1.042
S10A9Z-048H050	S10C9Z-048H050	50	1.0417	1.083
S10A9Z-048H056	S10C9Z-048H056	56	1.1667	1.208
S10A9Z-048H060	S10C9Z-048H060	60	1.2500	1.292
S10A9Z-048H064	S10C9Z-048H064	64	1.3333	1.375
S10A9Z-048H072	S10C9Z-048H072	72	1.5000	1.542
S10A9Z-048H080	S10C9Z-048H080	80	1.6667	1.708
S10A9Z-048H084	S10C9Z-048H084	84	1.7500	1.792
S10A9Z-048H090	S10C9Z-048H090	90	1.8750	1.917
S10A9Z-048H096	S10C9Z-048H096	96	2.0000	2.042
S10A9Z-048H100	S10C9Z-048H100	100	2.0833	2.125
S10A9Z-048H108	S10C9Z-048H108	108	2.2500	2.292
S10A9Z-048H120	S10C9Z-048H120	120	2.5000	2.542
S10A9Z-048H132	S10C9Z-048H132	132	2.7500	2.792
S10A9Z-048H144	S10C9Z-048H144	144	3.0000	3.042
S10A9Z-048H156	S10C9Z-048H156	156	3.2500	3.292
S10A9Z-048H168	S10C9Z-048H168	168	3.5000	3.542
S10A9Z-048H180	S10C9Z-048H180	180	3.7500	3.792
S10A9Z-048H192	S10C9Z-048H192	192	4.0000	4.042

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 & 3/8 FACE

■ 1/4 BORE

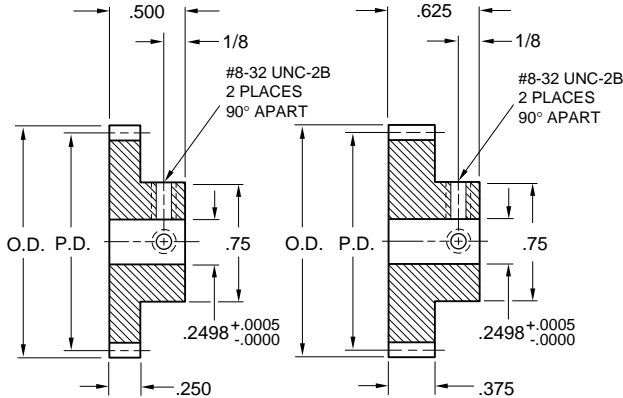
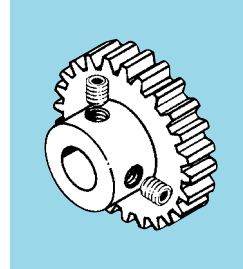


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A6Z-032H024	S10C6Z-032H024	24	0.7500	0.813
S10A6Z-032H028	S10C6Z-032H028	28	0.8750	0.938
S10A6Z-032H030	S10C6Z-032H030	30	0.9375	1.000
S10A6Z-032H032	S10C6Z-032H032	32	1.0000	1.063
S10A6Z-032H036	S10C6Z-032H036	36	1.1250	1.188
S10A6Z-032H040	S10C6Z-032H040	40	1.2500	1.313
S10A6Z-032H048	S10C6Z-032H048	48	1.5000	1.563
S10A6Z-032H056	S10C6Z-032H056	56	1.7500	1.813
S10A6Z-032H060	S10C6Z-032H060	60	1.8750	1.938
S10A6Z-032H064	S10C6Z-032H064	64	2.0000	2.063
S10A6Z-032H072	S10C6Z-032H072	72	2.2500	2.313
S10A6Z-032H080	S10C6Z-032H080	80	2.5000	2.563
S10A6Z-032H096	S10C6Z-032H096	96	3.0000	3.063
S10A6Z-032H112	S10C6Z-032H112	112	3.5000	3.563
S10A6Z-032H128	S10C6Z-032H128	128	4.0000	4.063

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

Did You Know?

... That all the components featured in this catalog are available in both prototype as well as production quantities?

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 & 3/8 FACE

■ 3/8 BORE

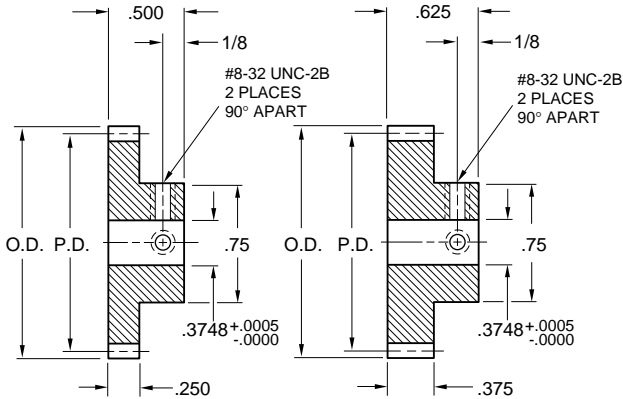
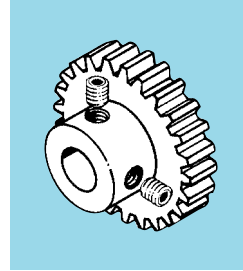


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A8Z-032H024	S10C8Z-032H024	24	0.7500	0.813
S10A8Z-032H028	S10C8Z-032H028	28	0.8750	0.938
S10A8Z-032H030	S10C8Z-032H030	30	0.9375	1.000
S10A8Z-032H032	S10C8Z-032H032	32	1.0000	1.063
S10A8Z-032H036	S10C8Z-032H036	36	1.1250	1.188
S10A8Z-032H040	S10C8Z-032H040	40	1.2500	1.313
S10A8Z-032H048	S10C8Z-032H048	48	1.5000	1.563
S10A8Z-032H056	S10C8Z-032H056	56	1.7500	1.813
S10A8Z-032H060	S10C8Z-032H060	60	1.8750	1.938
S10A8Z-032H064	S10C8Z-032H064	64	2.0000	2.063
S10A8Z-032H072	S10C8Z-032H072	72	2.2500	2.313
S10A8Z-032H080	S10C8Z-032H080	80	2.5000	2.563
S10A8Z-032H096	S10C8Z-032H096	96	3.0000	3.063
S10A8Z-032H112	S10C8Z-032H112	112	3.5000	3.563
S10A8Z-032H128	S10C8Z-032H128	128	4.0000	4.063

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 & 3/8 FACE

■ 1/2 BORE

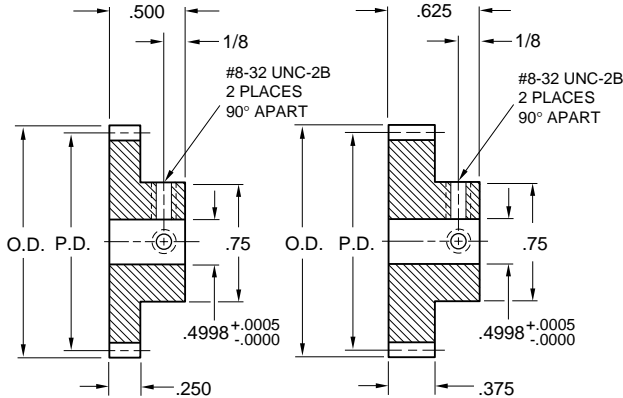
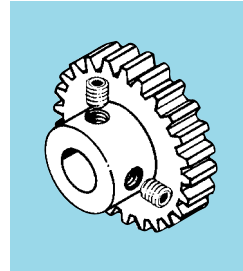


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A9Z-032H024	S10C9Z-032H024	24	0.7500	0.813
S10A9Z-032H028	S10C9Z-032H028	28	0.8750	0.938
S10A9Z-032H030	S10C9Z-032H030	30	0.9375	1.000
S10A9Z-032H032	S10C9Z-032H032	32	1.0000	1.063
S10A9Z-032H036	S10C9Z-032H036	36	1.1250	1.188
S10A9Z-032H040	S10C9Z-032H040	40	1.2500	1.313
S10A9Z-032H048	S10C9Z-032H048	48	1.5000	1.563
S10A9Z-032H056	S10C9Z-032H056	56	1.7500	1.813
S10A9Z-032H060	S10C9Z-032H060	60	1.8750	1.938
S10A9Z-032H064	S10C9Z-032H064	64	2.0000	2.063
S10A9Z-032H072	S10C9Z-032H072	72	2.2500	2.313
S10A9Z-032H080	S10C9Z-032H080	80	2.5000	2.563
S10A9Z-032H096	S10C9Z-032H096	96	3.0000	3.063
S10A9Z-032H112	S10C9Z-032H112	112	3.5000	3.563
S10A9Z-032H128	S10C9Z-032H128	128	4.0000	4.063

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

Did You Know?

... At SDP/SI we are dedicated to manufacturing plastic drive components that are standardized or custom-designed by the inch or by the millimeter.

S INCH Hardened Spur Gears - 24 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/4 & 3/8 FACE
- 1/4 BORE

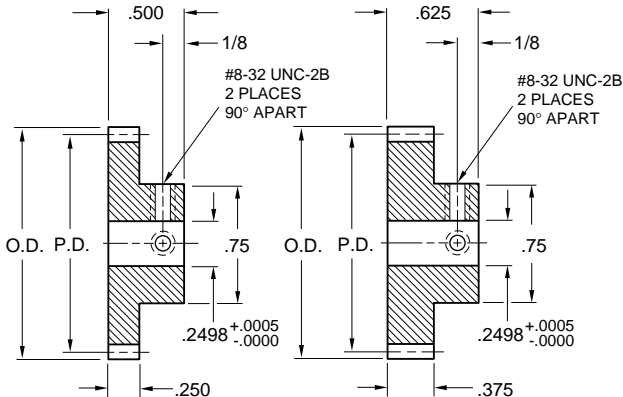
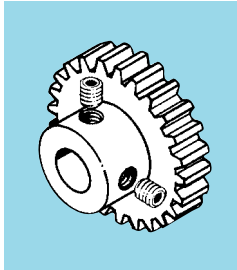


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A6Z-024H018	S10C6Z-024H018	18	0.7500	0.833
S10A6Z-024H020	S10C6Z-024H020	20	0.8333	0.917
S10A6Z-024H021	S10C6Z-024H021	21	0.8750	0.958
S10A6Z-024H024	S10C6Z-024H024	24	1.0000	1.083
S10A6Z-024H030	S10C6Z-024H030	30	1.2500	1.333
S10A6Z-024H036	S10C6Z-024H036	36	1.5000	1.583
S10A6Z-024H042	S10C6Z-024H042	42	1.7500	1.833
S10A6Z-024H048	S10C6Z-024H048	48	2.0000	2.083
S10A6Z-024H054	S10C6Z-024H054	54	2.2500	2.333
S10A6Z-024H060	S10C6Z-024H060	60	2.5000	2.583
S10A6Z-024H072	S10C6Z-024H072	72	3.0000	3.083
S10A6Z-024H084	S10C6Z-024H084	84	3.5000	3.583
S10A6Z-024H096	S10C6Z-024H096	96	4.0000	4.083

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

S INCH

Hardened Spur Gears - 24 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 & 3/8 FACE

■ 3/8 BORE

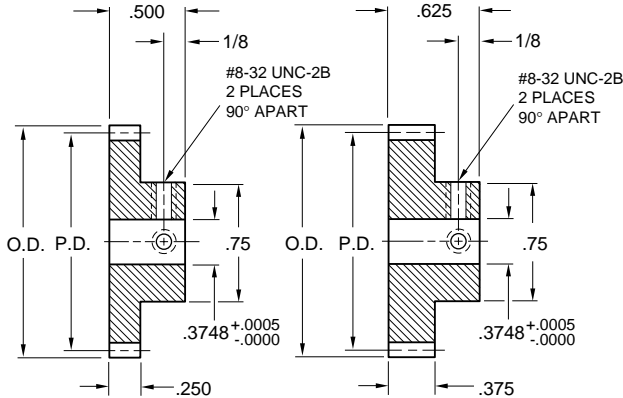
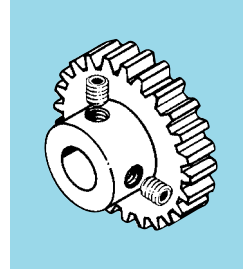


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_C \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A8Z-024H018	S10C8Z-024H018	18	0.7500	0.833
S10A8Z-024H020	S10C8Z-024H020	20	0.8333	0.917
S10A8Z-024H021	S10C8Z-024H021	21	0.8750	0.958
S10A8Z-024H024	S10C8Z-024H024	24	1.0000	1.083
S10A8Z-024H030	S10C8Z-024H030	30	1.2500	1.333
S10A8Z-024H036	S10C8Z-024H036	36	1.5000	1.583
S10A8Z-024H042	S10C8Z-024H042	42	1.7500	1.833
S10A8Z-024H048	S10C8Z-024H048	48	2.0000	2.083
S10A8Z-024H054	S10C8Z-024H054	54	2.2500	2.333
S10A8Z-024H060	S10C8Z-024H060	60	2.5000	2.583
S10A8Z-024H072	S10C8Z-024H072	72	3.0000	3.083
S10A8Z-024H084	S10C8Z-024H084	84	3.5000	3.583
S10A8Z-024H096	S10C8Z-024H096	96	4.0000	4.083

Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

Did You Know?

... That we have a well-equipped modern machine shop with state-of-the-art production machinery?

We can handle custom products made to your specifications as well as catalog items.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 & 3/8 FACE

■ 1/2 BORE

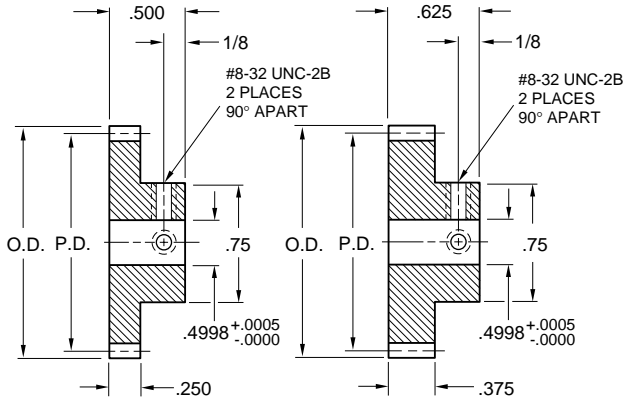
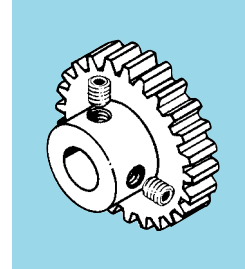


Fig. 1

Fig. 2



MATERIAL: Alloy Steel
Surface Hardened to $R_c \geq 55$

Catalog Number		No. of Teeth	P.D.	O.D.
.250 Face Fig. 1	.375 Face Fig. 2			
S10A9Z-024H018	S10C9Z-024H018	18	0.7500	0.833
S10A9Z-024H020	S10C9Z-024H020	20	0.8333	0.917
S10A9Z-024H021	S10C9Z-024H021	21	0.8750	0.958
S10A9Z-024H024	S10C9Z-024H024	24	1.0000	1.083
S10A9Z-024H030	S10C9Z-024H030	30	1.2500	1.333
S10A9Z-024H036	S10C9Z-024H036	36	1.5000	1.583
S10A9Z-024H042	S10C9Z-024H042	42	1.7500	1.833
S10A9Z-024H048	S10C9Z-024H048	48	2.0000	2.083
S10A9Z-024H054	S10C9Z-024H054	54	2.2500	2.333
S10A9Z-024H060	S10C9Z-024H060	60	2.5000	2.583
S10A9Z-024H072	S10C9Z-024H072	72	3.0000	3.083
S10A9Z-024H084	S10C9Z-024H084	84	3.5000	3.583
S10A9Z-024H096	S10C9Z-024H096	96	4.0000	4.083

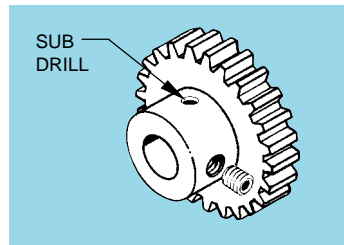
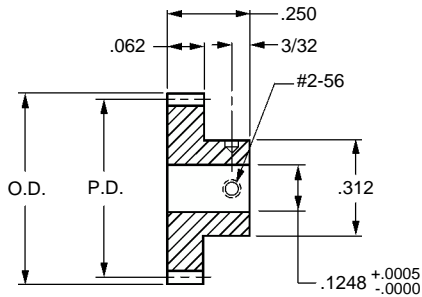
Available on special order: Different number of teeth, bore size or face width.
See technical page 1-15 for application hints.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/16 FACE

■ 1/8 BORE

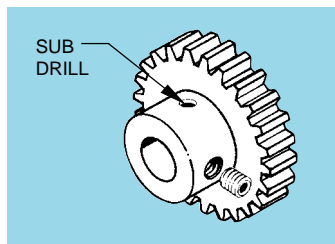
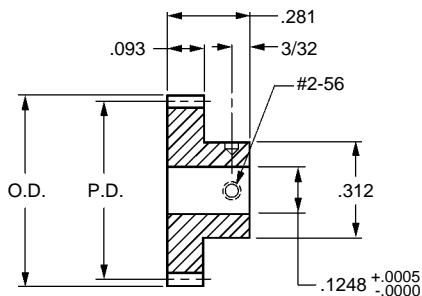


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1023Z-120S028	S1023Z-120A028	28	0.2333	0.250
S1023Z-120S032	S1023Z-120A032	32	0.2667	0.283
S1023Z-120S036	S1023Z-120A036	36	0.3000	0.317
S1023Z-120S040	S1023Z-120A040	40	0.3333	0.350
S1023Z-120S042	S1023Z-120A042	42	0.3500	0.367
S1023Z-120S044	S1023Z-120A044	44	0.3667	0.383
S1023Z-120S045	S1023Z-120A045	45	0.3750	0.392
S1023Z-120S048	S1023Z-120A048	48	0.4000	0.417
S1023Z-120S050	S1023Z-120A050	50	0.4167	0.433
S1023Z-120S054	S1023Z-120A054	54	0.4500	0.467
S1023Z-120S060	S1023Z-120A060	60	0.5000	0.517
S1023Z-120S065	S1023Z-120A065	65	0.5417	0.558
S1023Z-120S066	S1023Z-120A066	66	0.5500	0.567
S1023Z-120S070	S1023Z-120A070	70	0.5833	0.600
S1023Z-120S072	S1023Z-120A072	72	0.6000	0.617
S1023Z-120S075	S1023Z-120A075	75	0.6250	0.642
S1023Z-120S080	S1023Z-120A080	80	0.6667	0.683
S1023Z-120S084	S1023Z-120A084	84	0.7000	0.717
S1023Z-120S090	S1023Z-120A090	90	0.7500	0.767
S1023Z-120S095	S1023Z-120A095	95	0.7917	0.808
S1023Z-120S096	S1023Z-120A096	96	0.8000	0.817
S1023Z-120S100	S1023Z-120A100	100	0.8333	0.850
S1023Z-120S110	S1023Z-120A110	110	0.9167	0.933
S1023Z-120S120	S1023Z-120A120	120	1.0000	1.017
S1023Z-120S126	S1023Z-120A126	126	1.0500	1.067
S1023Z-120S132	S1023Z-120A132	132	1.1000	1.117
S1023Z-120S144	S1023Z-120A144	144	1.2000	1.217
S1023Z-120S150	S1023Z-120A150	150	1.2500	1.267
S1023Z-120S156	S1023Z-120A156	156	1.3000	1.317
S1023Z-120S162	S1023Z-120A162	162	1.3500	1.367

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/32 FACE
- 1/8 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1043Z-120S028	S1043Z-120A028	28	0.2333	0.250
S1043Z-120S029	S1043Z-120A029	29	0.2417	0.258
S1043Z-120S030	S1043Z-120A030	30	0.2500	0.267
S1043Z-120S035	S1043Z-120A035	35	0.2917	0.308
S1043Z-120S040	S1043Z-120A040	40	0.3333	0.350
S1043Z-120S041	S1043Z-120A041	41	0.3417	0.358
S1043Z-120S045	S1043Z-120A045	45	0.3750	0.392
S1043Z-120S048	S1043Z-120A048	48	0.4000	0.417
S1043Z-120S050	S1043Z-120A050	50	0.4167	0.433
S1043Z-120S054	S1043Z-120A054	54	0.4500	0.467
S1043Z-120S060	S1043Z-120A060	60	0.5000	0.517
S1043Z-120S065	S1043Z-120A065	65	0.5417	0.558
S1043Z-120S070	S1043Z-120A070	70	0.5833	0.600
S1043Z-120S072	S1043Z-120A072	72	0.6000	0.617
S1043Z-120S080	S1043Z-120A080	80	0.6667	0.683
S1043Z-120S084	S1043Z-120A084	84	0.7000	0.717
S1043Z-120S090	S1043Z-120A090	90	0.7500	0.767
S1043Z-120S096	S1043Z-120A096	96	0.8000	0.817
S1043Z-120S100	S1043Z-120A100	100	0.8333	0.850
S1043Z-120S108	S1043Z-120A108	108	0.9000	0.917
S1043Z-120S110	S1043Z-120A110	110	0.9167	0.933
S1043Z-120S120	S1043Z-120A120	120	1.0000	1.017
S1043Z-120S144	S1043Z-120A144	144	1.2000	1.217
S1043Z-120S150	S1043Z-120A150	150	1.2500	1.267
S1043Z-120S156	S1043Z-120A156	156	1.3000	1.317
S1043Z-120S162	S1043Z-120A162	162	1.3500	1.367
S1043Z-120S168	S1043Z-120A168	168	1.4000	1.417
S1043Z-120S174	S1043Z-120A174	174	1.4500	1.467
S1043Z-120S180	S1043Z-120A180	180	1.5000	1.517
S1043Z-120S192	S1043Z-120A192	192	1.6000	1.617

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



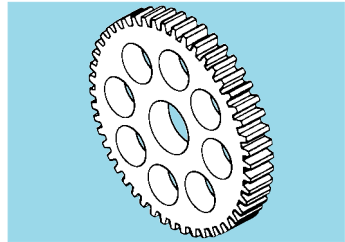
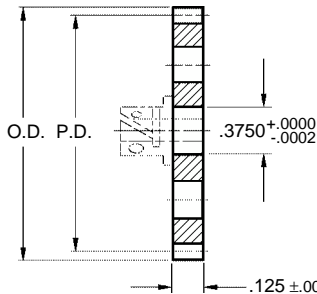
Hubless Spur Gears - 120 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.

- All gears over 2-1/8" Dia. supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-120S075	S1268Z-120A075	75	0.6250	0.642
S1268Z-120S076	S1268Z-120A076	76	0.6333	0.650
S1268Z-120S078	S1268Z-120A078	78	0.6500	0.667
S1268Z-120S080	S1268Z-120A080	80	0.6667	0.683
S1268Z-120S082	S1268Z-120A082	82	0.6833	0.700
S1268Z-120S084	S1268Z-120A084	84	0.7000	0.717
S1268Z-120S090	S1268Z-120A090	90	0.7500	0.767
S1268Z-120S096	S1268Z-120A096	96	0.8000	0.817
S1268Z-120S100	S1268Z-120A100	100	0.8333	0.850
S1268Z-120S105	S1268Z-120A105	105	0.8750	0.892
S1268Z-120S110	S1268Z-120A110	110	0.9167	0.933
S1268Z-120S120	S1268Z-120A120	120	1.0000	1.017
S1268Z-120S127	S1268Z-120A127	127	1.0583	1.075
S1268Z-120S130	S1268Z-120A130	130	1.0833	1.100
S1268Z-120S140	S1268Z-120A140	140	1.1667	1.183
S1268Z-120S144	S1268Z-120A144	144	1.2000	1.217
S1268Z-120S150	S1268Z-120A150	150	1.2500	1.267
S1268Z-120S160	S1268Z-120A160	160	1.3333	1.350
S1268Z-120S180	S1268Z-120A180	180	1.5000	1.517
S1268Z-120S200	S1268Z-120A200	200	1.6667	1.683
S1268Z-120S210	S1268Z-120A210	210	1.7500	1.767
S1268Z-120S240	S1268Z-120A240	240	2.0000	2.017
S1268Z-120S250	S1268Z-120A250	250	2.0833	2.100
S1268Z-120S270	S1268Z-120A270	270	2.2500	2.267
S1268Z-120S300	S1268Z-120A300	300	2.5000	2.517
S1268Z-120S325	S1268Z-120A325	325	2.7083	2.725
S1268Z-120S350	S1268Z-120A350	350	2.9167	2.933
S1268Z-120S360	S1268Z-120A360	360	3.0000	3.017
S1268Z-120S420	S1268Z-120A420	420	3.5000	3.517
S1268Z-120S480	S1268Z-120A480	480	4.0000	4.017

* T4 or T351 Aluminum Alloy, anodized before cutting.

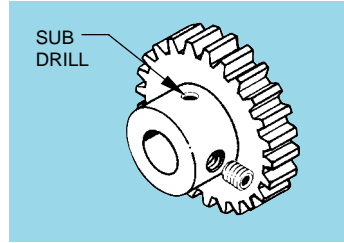
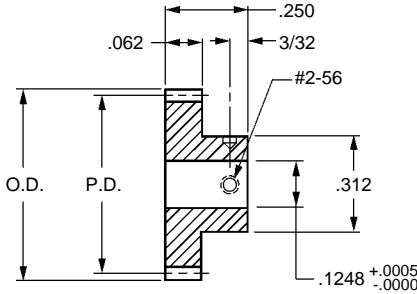
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/16 FACE

■ 1/8 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1023Z-096S024	S1023Z-096A024	24	0.2500	0.271
S1023Z-096S030	S1023Z-096A030	30	0.3125	0.333
S1023Z-096S035	S1023Z-096A035	35	0.3646	0.385
S1023Z-096S036	S1023Z-096A036	36	0.3750	0.396
S1023Z-096S038	S1023Z-096A038	38	0.3958	0.417
S1023Z-096S040	S1023Z-096A040	40	0.4167	0.438
S1023Z-096S045	S1023Z-096A045	45	0.4688	0.490
S1023Z-096S050	S1023Z-096A050	50	0.5208	0.542
S1023Z-096S052	S1023Z-096A052	52	0.5417	0.563
S1023Z-096S054	S1023Z-096A054	54	0.5625	0.583
S1023Z-096S055	S1023Z-096A055	55	0.5729	0.594
S1023Z-096S056	S1023Z-096A056	56	0.5833	0.604
S1023Z-096S060	S1023Z-096A060	60	0.6250	0.646
S1023Z-096S064	S1023Z-096A064	64	0.6667	0.688
S1023Z-096S065	S1023Z-096A065	65	0.6771	0.698
S1023Z-096S070	S1023Z-096A070	70	0.7292	0.750
S1023Z-096S072	S1023Z-096A072	72	0.7500	0.771
S1023Z-096S075	S1023Z-096A075	75	0.7813	0.802
S1023Z-096S080	S1023Z-096A080	80	0.8333	0.854
S1023Z-096S082	S1023Z-096A082	82	0.8542	0.875
S1023Z-096S085	S1023Z-096A085	85	0.8854	0.906
S1023Z-096S090	S1023Z-096A090	90	0.9375	0.958
S1023Z-096S095	S1023Z-096A095	95	0.9896	1.010
S1023Z-096S096	S1023Z-096A096	96	1.0000	1.021
S1023Z-096S100	S1023Z-096A100	100	1.0417	1.063
S1023Z-096S105	S1023Z-096A105	105	1.0938	1.115
S1023Z-096S108	S1023Z-096A108	108	1.1250	1.146
S1023Z-096S110	S1023Z-096A110	110	1.1458	1.167
S1023Z-096S120	S1023Z-096A120	120	1.2500	1.271
S1023Z-096S144	S1023Z-096A144	144	1.5000	1.521

* T4 or T351 Aluminum Alloy, anodized before cutting.

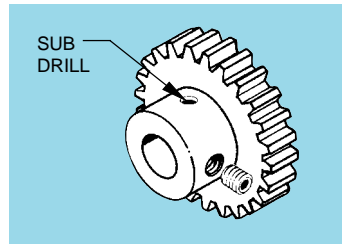
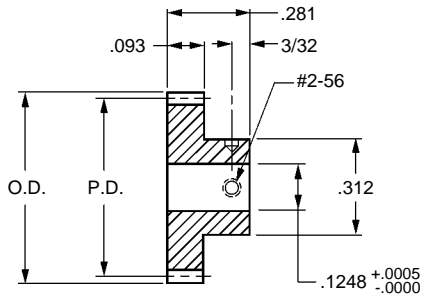
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 3/32 FACE

■ 1/8 BORE

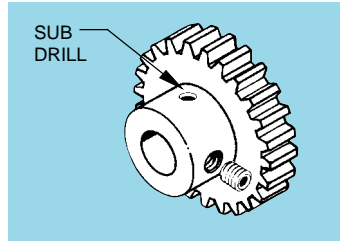
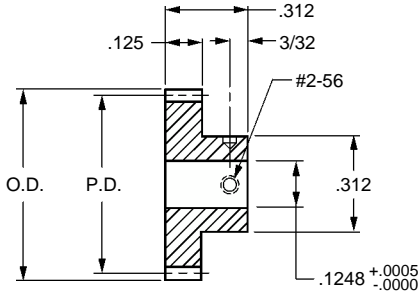


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1043Z-096S024	S1043Z-096A024	24	0.2500	0.271
S1043Z-096S026	S1043Z-096A026	26	0.2708	0.292
S1043Z-096S028	S1043Z-096A028	28	0.2917	0.313
S1043Z-096S030	S1043Z-096A030	30	0.3125	0.333
S1043Z-096S032	S1043Z-096A032	32	0.3333	0.354
S1043Z-096S036	S1043Z-096A036	36	0.3750	0.396
S1043Z-096S040	S1043Z-096A040	40	0.4167	0.438
S1043Z-096S042	S1043Z-096A042	42	0.4375	0.458
S1043Z-096S044	S1043Z-096A044	44	0.4583	0.479
S1043Z-096S046	S1043Z-096A046	46	0.4792	0.500
S1043Z-096S048	S1043Z-096A048	48	0.5000	0.521
S1043Z-096S050	S1043Z-096A050	50	0.5208	0.542
S1043Z-096S054	S1043Z-096A054	54	0.5625	0.583
S1043Z-096S056	S1043Z-096A056	56	0.5833	0.604
S1043Z-096S060	S1043Z-096A060	60	0.6250	0.646
S1043Z-096S064	S1043Z-096A064	64	0.6667	0.688
S1043Z-096S065	S1043Z-096A065	65	0.6771	0.698
S1043Z-096S070	S1043Z-096A070	70	0.7292	0.750
S1043Z-096S072	S1043Z-096A072	72	0.7500	0.771
S1043Z-096S075	S1043Z-096A075	75	0.7813	0.802
S1043Z-096S080	S1043Z-096A080	80	0.8333	0.854
S1043Z-096S084	S1043Z-096A084	84	0.8750	0.896
S1043Z-096S090	S1043Z-096A090	90	0.9375	0.958
S1043Z-096S096	S1043Z-096A096	96	1.0000	1.021
S1043Z-096S100	S1043Z-096A100	100	1.0417	1.063
S1043Z-096S105	S1043Z-096A105	105	1.0938	1.115
S1043Z-096S108	S1043Z-096A108	108	1.1250	1.146
S1043Z-096S120	S1043Z-096A120	120	1.2500	1.271
S1043Z-096S132	S1043Z-096A132	132	1.3750	1.396
S1043Z-096S144	S1043Z-096A144	144	1.5000	1.521

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/8 BORE

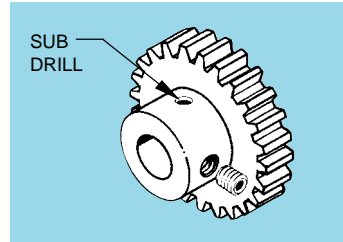
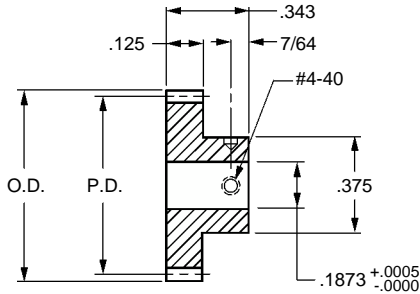


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1063Z-096S024	S1063Z-096A024	24	0.2500	0.271
S1063Z-096S028	S1063Z-096A028	28	0.2917	0.313
S1063Z-096S030	S1063Z-096A030	30	0.3125	0.333
S1063Z-096S032	S1063Z-096A032	32	0.3333	0.354
S1063Z-096S036	S1063Z-096A036	36	0.3750	0.396
S1063Z-096S038	S1063Z-096A038	38	0.3958	0.417
S1063Z-096S039	S1063Z-096A039	39	0.4063	0.427
S1063Z-096S040	S1063Z-096A040	40	0.4167	0.438
S1063Z-096S042	S1063Z-096A042	42	0.4375	0.458
S1063Z-096S044	S1063Z-096A044	44	0.4583	0.479
S1063Z-096S046	S1063Z-096A046	46	0.4792	0.500
S1063Z-096S048	S1063Z-096A048	48	0.5000	0.521
S1063Z-096S050	S1063Z-096A050	50	0.5208	0.542
S1063Z-096S054	S1063Z-096A054	54	0.5625	0.583
S1063Z-096S056	S1063Z-096A056	56	0.5833	0.604
S1063Z-096S060	S1063Z-096A060	60	0.6250	0.646
S1063Z-096S064	S1063Z-096A064	64	0.6667	0.688
S1063Z-096S065	S1063Z-096A065	65	0.6771	0.698
S1063Z-096S070	S1063Z-096A070	70	0.7292	0.750
S1063Z-096S072	S1063Z-096A072	72	0.7500	0.771
S1063Z-096S075	S1063Z-096A075	75	0.7813	0.802
S1063Z-096S080	S1063Z-096A080	80	0.8333	0.854
S1063Z-096S090	S1063Z-096A090	90	0.9375	0.958
S1063Z-096S096	S1063Z-096A096	96	1.0000	1.021
S1063Z-096S100	S1063Z-096A100	100	1.0417	1.063
S1063Z-096S105	S1063Z-096A105	105	1.0938	1.115
S1063Z-096S120	S1063Z-096A120	120	1.2500	1.271
S1063Z-096S144	S1063Z-096A144	144	1.5000	1.521
S1063Z-096S156	S1063Z-096A156	156	1.6250	1.646
S1063Z-096S168	S1063Z-096A168	168	1.7500	1.771

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1064Z-096S030	S1064Z-096A030	30	0.3125	0.333
S1064Z-096S032	S1064Z-096A032	32	0.3333	0.354
S1064Z-096S034	S1064Z-096A034	34	0.3542	0.375
S1064Z-096S035	S1064Z-096A035	35	0.3646	0.385
S1064Z-096S036	S1064Z-096A036	36	0.3750	0.396
S1064Z-096S039	S1064Z-096A039	39	0.4063	0.427
S1064Z-096S040	S1064Z-096A040	40	0.4167	0.438
S1064Z-096S041	S1064Z-096A041	41	0.4271	0.448
S1064Z-096S042	S1064Z-096A042	42	0.4375	0.458
S1064Z-096S044	S1064Z-096A044	44	0.4583	0.479
S1064Z-096S046	S1064Z-096A046	46	0.4792	0.500
S1064Z-096S048	S1064Z-096A048	48	0.5000	0.521
S1064Z-096S056	S1064Z-096A056	56	0.5833	0.604
S1064Z-096S060	S1064Z-096A060	60	0.6250	0.646
S1064Z-096S064	S1064Z-096A064	64	0.6667	0.688
S1064Z-096S072	S1064Z-096A072	72	0.7500	0.771
S1064Z-096S075	S1064Z-096A075	75	0.7813	0.802
S1064Z-096S080	S1064Z-096A080	80	0.8333	0.854
S1064Z-096S085	S1064Z-096A085	85	0.8854	0.906
S1064Z-096S090	S1064Z-096A090	90	0.9375	0.958
S1064Z-096S096	S1064Z-096A096	96	1.0000	1.021
S1064Z-096S100	S1064Z-096A100	100	1.0417	1.063
S1064Z-096S104	S1064Z-096A104	104	1.0833	1.104
S1064Z-096S110	S1064Z-096A110	110	1.1458	1.167
S1064Z-096S120	S1064Z-096A120	120	1.2500	1.271
S1064Z-096S130	S1064Z-096A130	130	1.3542	1.375
S1064Z-096S140	S1064Z-096A140	140	1.4583	1.479
S1064Z-096S150	S1064Z-096A150	150	1.5625	1.583
S1064Z-096S160	S1064Z-096A160	160	1.6667	1.688
S1064Z-096S180	S1064Z-096A180	180	1.8750	1.896

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



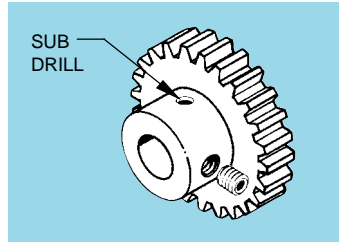
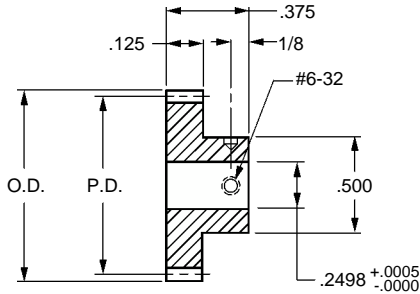
Spur Gears - 96 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-096S052	S1066Z-096A052	52	0.5417	0.563
S1066Z-096S054	S1066Z-096A054	54	0.5625	0.583
S1066Z-096S056	S1066Z-096A056	56	0.5833	0.604
S1066Z-096S060	S1066Z-096A060	60	0.6250	0.646
S1066Z-096S063	S1066Z-096A063	63	0.6563	0.677
S1066Z-096S072	S1066Z-096A072	72	0.7500	0.771
S1066Z-096S076	S1066Z-096A076	76	0.7917	0.8125
S1066Z-096S078	S1066Z-096A078	78	0.8125	0.833
S1066Z-096S080	S1066Z-096A080	80	0.8333	0.854
S1066Z-096S084	S1066Z-096A084	84	0.8750	0.896
S1066Z-096S090	S1066Z-096A090	90	0.9375	0.958
S1066Z-096S092	S1066Z-096A092	92	0.9583	0.979
S1066Z-096S096	S1066Z-096A096	96	1.0000	1.021
S1066Z-096S100	S1066Z-096A100	100	1.0417	1.063
S1066Z-096S108	S1066Z-096A108	108	1.1250	1.146
S1066Z-096S110	S1066Z-096A110	110	1.1458	1.167
S1066Z-096S112	S1066Z-096A112	112	1.1667	1.188
S1066Z-096S120	S1066Z-096A120	120	1.2500	1.271
S1066Z-096S125	S1066Z-096A125	125	1.3020	1.323
S1066Z-096S126	S1066Z-096A126	126	1.3125	1.333
S1066Z-096S130	S1066Z-096A130	130	1.3542	1.375
S1066Z-096S132	S1066Z-096A132	132	1.3750	1.396
S1066Z-096S140	S1066Z-096A140	140	1.4583	1.479
S1066Z-096S149	S1066Z-096A149	149	1.5521	1.573
S1066Z-096S150	S1066Z-096A150	150	1.5625	1.583
S1066Z-096S163	S1066Z-096A163	163	1.6979	1.719
S1066Z-096S170	S1066Z-096A170	170	1.7708	1.792
S1066Z-096S180	S1066Z-096A180	180	1.8750	1.896
S1066Z-096S190	S1066Z-096A190	190	1.9792	2.000
S1066Z-096S220	S1066Z-096A220	220	2.2917	2.313

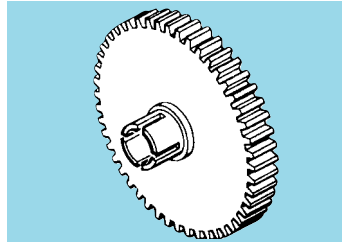
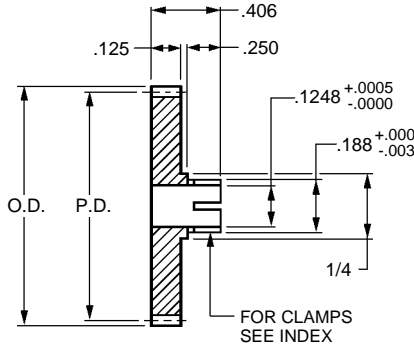
* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



Clamp Type Spur Gears - 96 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/8 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1163Z-096S024	S1163Z-096A024	24	0.2500	0.271
S1163Z-096S028	S1163Z-096A028	28	0.2917	0.313
S1163Z-096S030	S1163Z-096A030	30	0.3125	0.333
S1163Z-096S032	S1163Z-096A032	32	0.3333	0.354
S1163Z-096S034	S1163Z-096A034	34	0.3542	0.375
S1163Z-096S036	S1163Z-096A036	36	0.3750	0.396
S1163Z-096S038	S1163Z-096A038	38	0.3958	0.417
S1163Z-096S040	S1163Z-096A040	40	0.4167	0.438
S1163Z-096S042	S1163Z-096A042	42	0.4375	0.458
S1163Z-096S044	S1163Z-096A044	44	0.4583	0.479
S1163Z-096S046	S1163Z-096A046	46	0.4792	0.500
S1163Z-096S048	S1163Z-096A048	48	0.5000	0.521
S1163Z-096S050	S1163Z-096A050	50	0.5208	0.542
S1163Z-096S054	S1163Z-096A054	54	0.5625	0.583
S1163Z-096S056	S1163Z-096A056	56	0.5833	0.604
S1163Z-096S060	S1163Z-096A060	60	0.6250	0.646
S1163Z-096S064	S1163Z-096A064	64	0.6667	0.688
S1163Z-096S070	S1163Z-096A070	70	0.7292	0.750
S1163Z-096S072	S1163Z-096A072	72	0.7500	0.771
S1163Z-096S076	S1163Z-096A076	76	0.7917	0.813
S1163Z-096S080	S1163Z-096A080	80	0.8333	0.854
S1163Z-096S084	S1163Z-096A084	84	0.8750	0.896
S1163Z-096S090	S1163Z-096A090	90	0.9375	0.958
S1163Z-096S096	S1163Z-096A096	96	1.0000	1.021
S1163Z-096S100	S1163Z-096A100	100	1.0417	1.063
S1163Z-096S120	S1163Z-096A120	120	1.2500	1.271
S1163Z-096S144	S1163Z-096A144	144	1.5000	1.521
S1163Z-096S156	S1163Z-096A156	156	1.6250	1.646
S1163Z-096S168	S1163Z-096A168	168	1.7500	1.771
S1163Z-096S180	S1163Z-096A180	180	1.8750	1.896

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



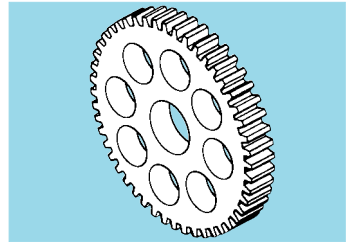
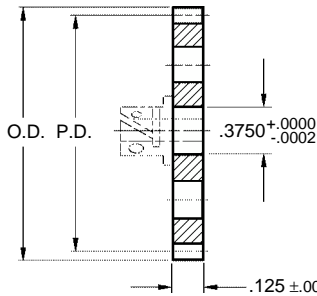
Hubless Spur Gears - 96 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.

- All gears over 2-1/8" Dia. supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-096S058	S1268Z-096A058	58	0.6042	0.625
S1268Z-096S062	S1268Z-096A062	62	0.6458	0.667
S1268Z-096S064	S1268Z-096A064	64	0.6667	0.688
S1268Z-096S066	S1268Z-096A066	66	0.6875	0.708
S1268Z-096S072	S1268Z-096A072	72	0.7500	0.771
S1268Z-096S084	S1268Z-096A084	84	0.8750	0.896
S1268Z-096S096	S1268Z-096A096	96	1.0000	1.021
S1268Z-096S100	S1268Z-096A100	100	1.0417	1.063
S1268Z-096S110	S1268Z-096A110	110	1.1458	1.167
S1268Z-096S120	S1268Z-096A120	120	1.2500	1.271
S1268Z-096S127	S1268Z-096A127	127	1.3229	1.344
S1268Z-096S130	S1268Z-096A130	130	1.3542	1.375
S1268Z-096S132	S1268Z-096A132	132	1.3750	1.396
S1268Z-096S140	S1268Z-096A140	140	1.4583	1.479
S1268Z-096S144	S1268Z-096A144	144	1.5000	1.521
S1268Z-096S150	S1268Z-096A150	150	1.5625	1.583
S1268Z-096S160	S1268Z-096A160	160	1.6667	1.688
S1268Z-096S170	S1268Z-096A170	170	1.7708	1.792
S1268Z-096S180	S1268Z-096A180	180	1.8750	1.896
S1268Z-096S190	S1268Z-096A190	190	1.9792	2.000
S1268Z-096S200	S1268Z-096A200	200	2.0833	2.104
S1268Z-096S220	S1268Z-096A220	220	2.2917	2.313
S1268Z-096S228	S1268Z-096A228	228	2.3750	2.396
S1268Z-096S240	S1268Z-096A240	240	2.5000	2.521
S1268Z-096S250	S1268Z-096A250	250	2.6042	2.625
S1268Z-096S260	S1268Z-096A260	260	2.7083	2.729
S1268Z-096S280	S1268Z-096A280	280	2.9167	2.938
S1268Z-096S288	S1268Z-096A288	288	3.0000	3.021
S1268Z-096S336	S1268Z-096A336	336	3.5000	3.521
S1268Z-096S384	S1268Z-096A384	384	4.0000	4.021

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

■ AGMA Q12

■ 20° PRESSURE ANGLE

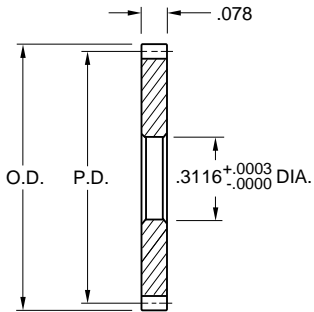


Fig. 1

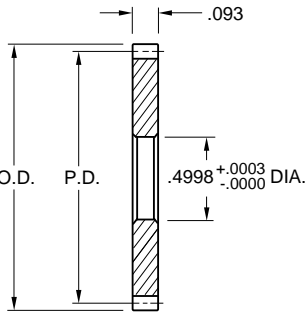
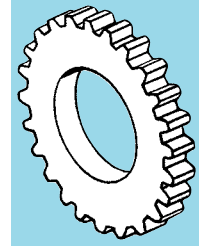


Fig. 2



Catalog Number		Number of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum Anodized Before Hobbing			
● Fig. 1 ■ 5/64 FACE ■ .3116 BORE				
S1239Z-096S090C	S1239Z-096A090C	90	.9375	.9583
S1239Z-096S100C	S1239Z-096A100C	100	1.0417	1.0625
S1239Z-096S110C	S1239Z-096A110C	110	1.1458	1.1667
S1239Z-096S120C	S1239Z-096A120C	120	1.2500	1.2708
S1239Z-096S130C	S1239Z-096A130C	130	1.3542	1.3750
S1239Z-096S140C	S1239Z-096A140C	140	1.4583	1.4792
S1239Z-096S150C	S1239Z-096A150C	150	1.5625	1.5833
● Fig. 2 ■ 3/32 FACE ■ .4998 BORE				
S1249Z-096S100C	S1249Z-096A100C	100	1.0417	1.0625
S1249Z-096S105C	S1249Z-096A105C	105	1.0937	1.1146
S1249Z-096S110C	S1249Z-096A110C	110	1.1458	1.1667
S1249Z-096S120C	S1249Z-096A120C	120	1.2500	1.2708
S1249Z-096S130C	S1249Z-096A130C	130	1.3542	1.3750
S1249Z-096S140C	S1249Z-096A140C	140	1.4583	1.4792
S1249Z-096S150C	S1249Z-096A150C	150	1.5625	1.5833

NOTE: The end gears shown on this page will be assembled to differentials which are ordered at the same time, free of charge.

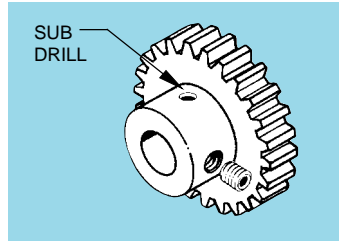
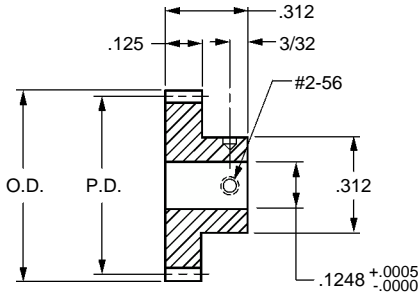
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and / or material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/8 BORE

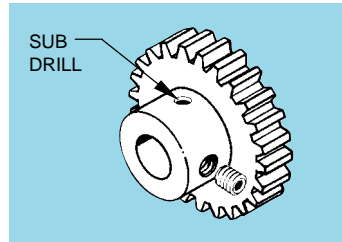
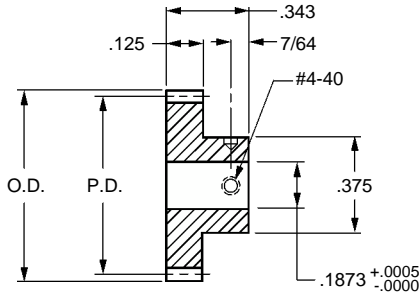


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1063Z-080S025	S1063Z-080A025	25	0.3125	0.338
S1063Z-080S026	S1063Z-080A026	26	0.3250	0.350
S1063Z-080S027	S1063Z-080A027	27	0.3375	0.363
S1063Z-080S028	S1063Z-080A028	28	0.3500	0.375
S1063Z-080S029	S1063Z-080A029	29	0.3625	0.388
S1063Z-080S030	S1063Z-080A030	30	0.3750	0.400
S1063Z-080S031	S1063Z-080A031	31	0.3875	0.413
S1063Z-080S032	S1063Z-080A032	32	0.4000	0.425
S1063Z-080S034	S1063Z-080A034	34	0.4250	0.450
S1063Z-080S036	S1063Z-080A036	36	0.4500	0.475
S1063Z-080S038	S1063Z-080A038	38	0.4750	0.500
S1063Z-080S040	S1063Z-080A040	40	0.5000	0.525
S1063Z-080S042	S1063Z-080A042	42	0.5250	0.550
S1063Z-080S044	S1063Z-080A044	44	0.5500	0.575
S1063Z-080S050	S1063Z-080A050	50	0.6250	0.650
S1063Z-080S055	S1063Z-080A055	55	0.6875	0.713
S1063Z-080S060	S1063Z-080A060	60	0.7500	0.775
S1063Z-080S065	S1063Z-080A065	65	0.8125	0.838
S1063Z-080S075	S1063Z-080A075	75	0.9375	0.963
S1063Z-080S080	S1063Z-080A080	80	1.0000	1.025
S1063Z-080S085	S1063Z-080A085	85	1.0625	1.088
S1063Z-080S090	S1063Z-080A090	90	1.1250	1.150
S1063Z-080S100	S1063Z-080A100	100	1.2500	1.275
S1063Z-080S110	S1063Z-080A110	110	1.3750	1.400
S1063Z-080S120	S1063Z-080A120	120	1.5000	1.525
S1063Z-080S130	S1063Z-080A130	130	1.6250	1.650
S1063Z-080S140	S1063Z-080A140	140	1.7500	1.775
S1063Z-080S150	S1063Z-080A150	150	1.8750	1.900
S1063Z-080S160	S1063Z-080A160	160	2.0000	2.025
S1063Z-080S170	S1063Z-080A170	170	2.1250	2.150

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1064Z-080S025	S1064Z-080A025	25	0.3125	0.338
S1064Z-080S026	S1064Z-080A026	26	0.3250	0.350
S1064Z-080S027	S1064Z-080A027	27	0.3375	0.363
S1064Z-080S028	S1064Z-080A028	28	0.3500	0.375
S1064Z-080S030	S1064Z-080A030	30	0.3750	0.400
S1064Z-080S032	S1064Z-080A032	32	0.4000	0.425
S1064Z-080S036	S1064Z-080A036	36	0.4500	0.475
S1064Z-080S040	S1064Z-080A040	40	0.5000	0.525
S1064Z-080S045	S1064Z-080A045	45	0.5625	0.588
S1064Z-080S050	S1064Z-080A050	50	0.6250	0.650
S1064Z-080S055	S1064Z-080A055	55	0.6875	0.713
S1064Z-080S060	S1064Z-080A060	60	0.7500	0.775
S1064Z-080S065	S1064Z-080A065	65	0.8125	0.838
S1064Z-080S070	S1064Z-080A070	70	0.8750	0.900
S1064Z-080S075	S1064Z-080A075	75	0.9375	0.963
S1064Z-080S080	S1064Z-080A080	80	1.0000	1.025
S1064Z-080S085	S1064Z-080A085	85	1.0625	1.088
S1064Z-080S090	S1064Z-080A090	90	1.1250	1.150
S1064Z-080S100	S1064Z-080A100	100	1.2500	1.275
S1064Z-080S110	S1064Z-080A110	110	1.3750	1.400
S1064Z-080S120	S1064Z-080A120	120	1.5000	1.525
S1064Z-080S130	S1064Z-080A130	130	1.6250	1.650
S1064Z-080S140	S1064Z-080A140	140	1.7500	1.775
S1064Z-080S150	S1064Z-080A150	150	1.8750	1.900
S1064Z-080S160	S1064Z-080A160	160	2.0000	2.025
S1064Z-080S180	S1064Z-080A180	180	2.2500	2.275
S1064Z-080S200	S1064Z-080A200	200	2.5000	2.525
S1064Z-080S220	S1064Z-080A220	220	2.7500	2.775
S1064Z-080S240	S1064Z-080A240	240	3.0000	3.025
S1064Z-080S250	S1064Z-080A250	250	3.1250	3.150

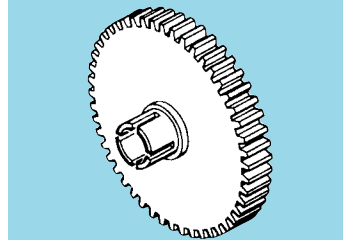
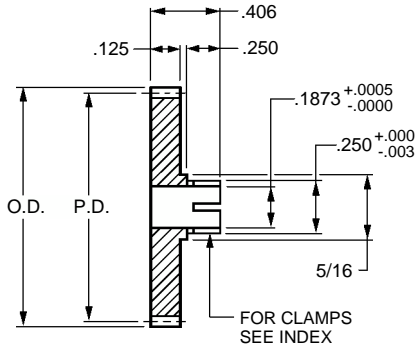
* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



Clamp Type Spur Gears - 80 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1164Z-080S025	S1164Z-080A025	25	0.3125	0.338
S1164Z-080S026	S1164Z-080A026	26	0.3250	0.350
S1164Z-080S027	S1164Z-080A027	27	0.3375	0.363
S1164Z-080S028	S1164Z-080A028	28	0.3500	0.375
S1164Z-080S030	S1164Z-080A030	30	0.3750	0.400
S1164Z-080S032	S1164Z-080A032	32	0.4000	0.425
S1164Z-080S036	S1164Z-080A036	36	0.4500	0.475
S1164Z-080S038	S1164Z-080A038	38	0.4750	0.500
S1164Z-080S040	S1164Z-080A040	40	0.5000	0.525
S1164Z-080S042	S1164Z-080A042	42	0.5250	0.550
S1164Z-080S044	S1164Z-080A044	44	0.5500	0.575
S1164Z-080S045	S1164Z-080A045	45	0.5625	0.588
S1164Z-080S048	S1164Z-080A048	48	0.6000	0.625
S1164Z-080S050	S1164Z-080A050	50	0.6250	0.650
S1164Z-080S055	S1164Z-080A055	55	0.6875	0.713
S1164Z-080S060	S1164Z-080A060	60	0.7500	0.775
S1164Z-080S064	S1164Z-080A064	64	0.8000	0.825
S1164Z-080S065	S1164Z-080A065	65	0.8125	0.838
S1164Z-080S070	S1164Z-080A070	70	0.8750	0.900
S1164Z-080S072	S1164Z-080A072	72	0.9000	0.925
S1164Z-080S075	S1164Z-080A075	75	0.9375	0.963
S1164Z-080S080	S1164Z-080A080	80	1.0000	1.025
S1164Z-080S085	S1164Z-080A085	85	1.0625	1.088
S1164Z-080S090	S1164Z-080A090	90	1.1250	1.150
S1164Z-080S100	S1164Z-080A100	100	1.2500	1.275
S1164Z-080S110	S1164Z-080A110	110	1.3750	1.400
S1164Z-080S120	S1164Z-080A120	120	1.5000	1.525
S1164Z-080S130	S1164Z-080A130	130	1.6250	1.650
S1164Z-080S140	S1164Z-080A140	140	1.7500	1.775
S1164Z-080S150	S1164Z-080A150	150	1.8750	1.900

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



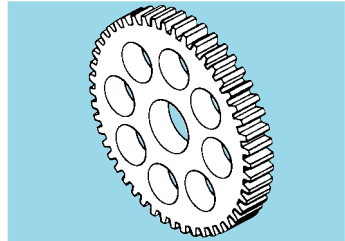
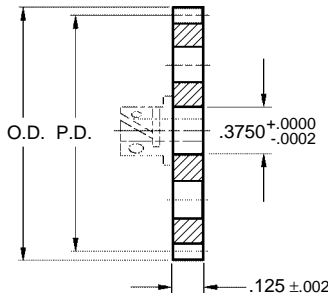
Hubless Spur Gears - 80 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.



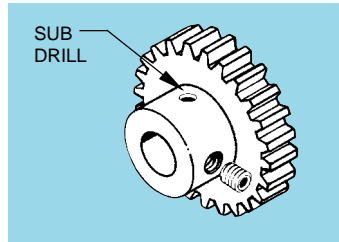
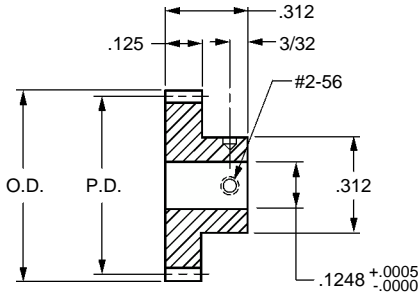
- All gears over 2-1/8" Dia. supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-080S048	S1268Z-080A048	48	0.6000	0.625
S1268Z-080S050	S1268Z-080A050	50	0.6250	0.650
S1268Z-080S052	S1268Z-080A052	52	0.6500	0.675
S1268Z-080S054	S1268Z-080A054	54	0.6750	0.700
S1268Z-080S056	S1268Z-080A056	56	0.7000	0.725
S1268Z-080S058	S1268Z-080A058	58	0.7250	0.750
S1268Z-080S060	S1268Z-080A060	60	0.7500	0.775
S1268Z-080S062	S1268Z-080A062	62	0.7750	0.800
S1268Z-080S070	S1268Z-080A070	70	0.8750	0.900
S1268Z-080S080	S1268Z-080A080	80	1.0000	1.025
S1268Z-080S090	S1268Z-080A090	90	1.1250	1.150
S1268Z-080S100	S1268Z-080A100	100	1.2500	1.275
S1268Z-080S110	S1268Z-080A110	110	1.3750	1.400
S1268Z-080S120	S1268Z-080A120	120	1.5000	1.525
S1268Z-080S127	S1268Z-080A127	127	1.5875	1.613
S1268Z-080S130	S1268Z-080A130	130	1.6250	1.650
S1268Z-080S140	S1268Z-080A140	140	1.7500	1.775
S1268Z-080S150	S1268Z-080A150	150	1.8750	1.900
S1268Z-080S160	S1268Z-080A160	160	2.0000	2.025
S1268Z-080S170	S1268Z-080A170	170	2.1250	2.150
S1268Z-080S180	S1268Z-080A180	180	2.2500	2.275
S1268Z-080S190	S1268Z-080A190	190	2.3750	2.400
S1268Z-080S200	S1268Z-080A200	200	2.5000	2.525
S1268Z-080S210	S1268Z-080A210	210	2.6250	2.650
S1268Z-080S220	S1268Z-080A220	220	2.7500	2.775
S1268Z-080S240	S1268Z-080A240	240	3.0000	3.025
S1268Z-080S260	S1268Z-080A260	260	3.2500	3.275
S1268Z-080S280	S1268Z-080A280	280	3.5000	3.525
S1268Z-080S300	S1268Z-080A300	300	3.7500	3.775
S1268Z-080S320	S1268Z-080A320	320	4.0000	4.025

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2" P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/8 BORE

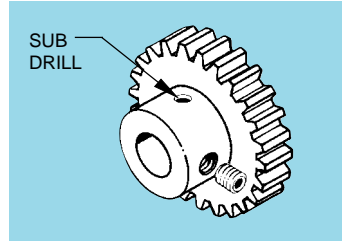
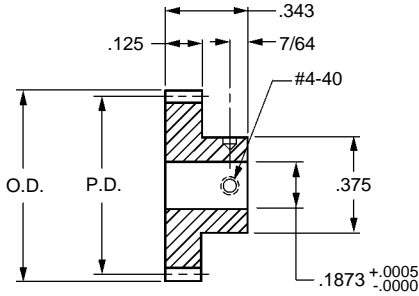


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1063Z-072S020	S1063Z-072A020	20	0.2778	0.306
S1063Z-072S022	S1063Z-072A022	22	0.3056	0.333
S1063Z-072S024	S1063Z-072A024	24	0.3333	0.361
S1063Z-072S026	S1063Z-072A026	26	0.3611	0.389
S1063Z-072S028	S1063Z-072A028	28	0.3889	0.417
S1063Z-072S030	S1063Z-072A030	30	0.4167	0.444
S1063Z-072S032	S1063Z-072A032	32	0.4444	0.472
S1063Z-072S034	S1063Z-072A034	34	0.4722	0.500
S1063Z-072S036	S1063Z-072A036	36	0.5000	0.528
S1063Z-072S038	S1063Z-072A038	38	0.5278	0.556
S1063Z-072S040	S1063Z-072A040	40	0.5556	0.583
S1063Z-072S044	S1063Z-072A044	44	0.6111	0.639
S1063Z-072S045	S1063Z-072A045	45	0.6250	0.653
S1063Z-072S046	S1063Z-072A046	46	0.6389	0.667
S1063Z-072S048	S1063Z-072A048	48	0.6667	0.694
S1063Z-072S050	S1063Z-072A050	50	0.6944	0.722
S1063Z-072S056	S1063Z-072A056	56	0.7778	0.806
S1063Z-072S060	S1063Z-072A060	60	0.8333	0.861
S1063Z-072S064	S1063Z-072A064	64	0.8889	0.917
S1063Z-072S070	S1063Z-072A070	70	0.9722	1.000
S1063Z-072S072	S1063Z-072A072	72	1.0000	1.028
S1063Z-072S075	S1063Z-072A075	75	1.0417	1.069
S1063Z-072S080	S1063Z-072A080	80	1.1111	1.139
S1063Z-072S090	S1063Z-072A090	90	1.2500	1.278
S1063Z-072S096	S1063Z-072A096	96	1.3333	1.361
S1063Z-072S100	S1063Z-072A100	100	1.3889	1.417
S1063Z-072S110	S1063Z-072A110	110	1.5278	1.556
S1063Z-072S120	S1063Z-072A120	120	1.6667	1.694
S1063Z-072S130	S1063Z-072A130	130	1.8056	1.833
S1063Z-072S150	S1063Z-072A150	150	2.0833	2.111

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1064Z-072S028	S1064Z-072A028	28	0.3889	0.417
S1064Z-072S030	S1064Z-072A030	30	0.4167	0.444
S1064Z-072S032	S1064Z-072A032	32	0.4444	0.472
S1064Z-072S036	S1064Z-072A036	36	0.5000	0.528
S1064Z-072S040	S1064Z-072A040	40	0.5556	0.583
S1064Z-072S044	S1064Z-072A044	44	0.6111	0.639
S1064Z-072S045	S1064Z-072A045	45	0.6250	0.653
S1064Z-072S046	S1064Z-072A046	46	0.6389	0.667
S1064Z-072S048	S1064Z-072A048	48	0.6667	0.694
S1064Z-072S050	S1064Z-072A050	50	0.6944	0.722
S1064Z-072S054	S1064Z-072A054	54	0.7500	0.778
S1064Z-072S060	S1064Z-072A060	60	0.8333	0.861
S1064Z-072S070	S1064Z-072A070	70	0.9722	1.000
S1064Z-072S072	S1064Z-072A072	72	1.0000	1.028
S1064Z-072S075	S1064Z-072A075	75	1.0417	1.069
S1064Z-072S080	S1064Z-072A080	80	1.1111	1.139
S1064Z-072S085	S1064Z-072A085	85	1.1806	1.208
S1064Z-072S090	S1064Z-072A090	90	1.2500	1.278
S1064Z-072S096	S1064Z-072A096	96	1.3333	1.361
S1064Z-072S100	S1064Z-072A100	100	1.3889	1.417
S1064Z-072S110	S1064Z-072A110	110	1.5278	1.556
S1064Z-072S120	S1064Z-072A120	120	1.6667	1.694
S1064Z-072S126	S1064Z-072A126	126	1.7500	1.778
S1064Z-072S140	S1064Z-072A140	140	1.9444	1.972
S1064Z-072S144	S1064Z-072A144	144	2.0000	2.028
S1064Z-072S150	S1064Z-072A150	150	2.0833	2.111
S1064Z-072S162	S1064Z-072A162	162	2.2500	2.278
S1064Z-072S180	S1064Z-072A180	180	2.5000	2.528
S1064Z-072S198	S1064Z-072A198	198	2.7500	2.778
S1064Z-072S216	S1064Z-072A216	216	3.0000	3.028

* T4 or T351 Aluminum Alloy, anodized before cutting.

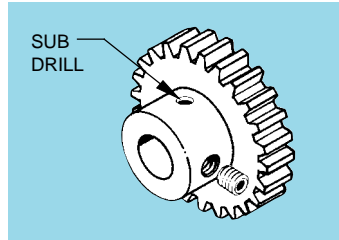
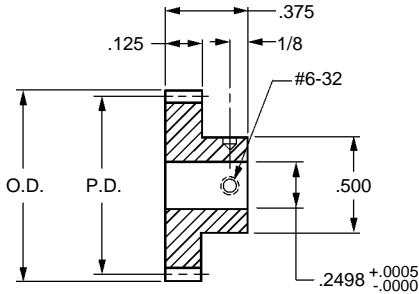
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE

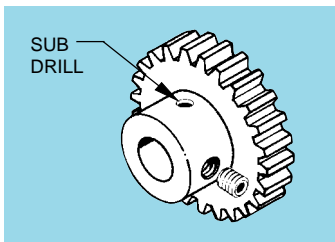
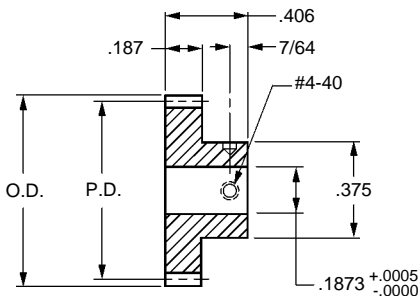


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-072S028	S1066Z-072A028	28	0.3889	0.417
S1066Z-072S030	S1066Z-072A030	30	0.4167	0.444
S1066Z-072S038	S1066Z-072A038	38	0.5278	0.556
S1066Z-072S040	S1066Z-072A040	40	0.5556	0.583
S1066Z-072S042	S1066Z-072A042	42	0.5833	0.611
S1066Z-072S044	S1066Z-072A044	44	0.6111	0.639
S1066Z-072S046	S1066Z-072A046	46	0.6389	0.667
S1066Z-072S048	S1066Z-072A048	48	0.6667	0.694
S1066Z-072S050	S1066Z-072A050	50	0.6944	0.722
S1066Z-072S054	S1066Z-072A054	54	0.7500	0.778
S1066Z-072S056	S1066Z-072A056	56	0.7778	0.806
S1066Z-072S060	S1066Z-072A060	60	0.8333	0.861
S1066Z-072S064	S1066Z-072A064	64	0.8889	0.917
S1066Z-072S065	S1066Z-072A065	65	0.9028	0.931
S1066Z-072S070	S1066Z-072A070	70	0.9722	1.000
S1066Z-072S072	S1066Z-072A072	72	1.0000	1.028
S1066Z-072S080	S1066Z-072A080	80	1.1111	1.139
S1066Z-072S090	S1066Z-072A090	90	1.2500	1.278
S1066Z-072S096	S1066Z-072A096	96	1.3333	1.361
S1066Z-072S100	S1066Z-072A100	100	1.3889	1.417
S1066Z-072S110	S1066Z-072A110	110	1.5278	1.556
S1066Z-072S120	S1066Z-072A120	120	1.6667	1.694
S1066Z-072S130	S1066Z-072A130	130	1.8056	1.833
S1066Z-072S140	S1066Z-072A140	140	1.9444	1.972
S1066Z-072S150	S1066Z-072A150	150	2.0833	2.111
S1066Z-072S160	S1066Z-072A160	160	2.2222	2.250
S1066Z-072S170	S1066Z-072A170	170	2.3611	2.389
S1066Z-072S180	S1066Z-072A180	180	2.5000	2.528
S1066Z-072S198	S1066Z-072A198	198	2.7500	2.778
S1066Z-072S216	S1066Z-072A216	216	3.0000	3.028

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16 BORE

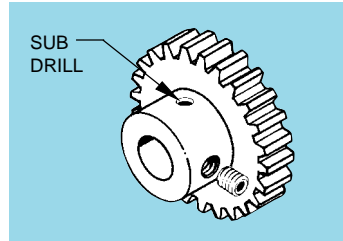
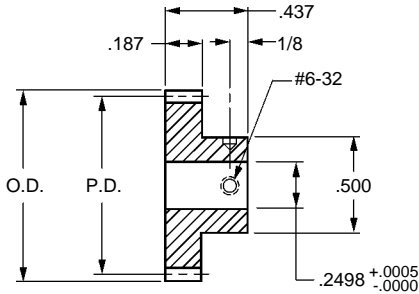


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1084Z-072S024	S1084Z-072A024	24	0.3333	0.361
S1084Z-072S028	S1084Z-072A028	28	0.3889	0.417
S1084Z-072S030	S1084Z-072A030	30	0.4167	0.444
S1084Z-072S032	S1084Z-072A032	32	0.4444	0.472
S1084Z-072S034	S1084Z-072A034	34	0.4722	0.500
S1084Z-072S038	S1084Z-072A038	38	0.5278	0.556
S1084Z-072S040	S1084Z-072A040	40	0.5556	0.583
S1084Z-072S044	S1084Z-072A044	44	0.6111	0.639
S1084Z-072S050	S1084Z-072A050	50	0.6944	0.722
S1084Z-072S054	S1084Z-072A054	54	0.7500	0.778
S1084Z-072S056	S1084Z-072A056	56	0.7778	0.806
S1084Z-072S060	S1084Z-072A060	60	0.8333	0.861
S1084Z-072S064	S1084Z-072A064	64	0.8889	0.917
S1084Z-072S072	S1084Z-072A072	72	1.0000	1.028
S1084Z-072S080	S1084Z-072A080	80	1.1111	1.139
S1084Z-072S090	S1084Z-072A090	90	1.2500	1.278
S1084Z-072S096	S1084Z-072A096	96	1.3333	1.361
S1084Z-072S100	S1084Z-072A100	100	1.3889	1.417
S1084Z-072S105	S1084Z-072A105	105	1.4583	1.486
S1084Z-072S108	S1084Z-072A108	108	1.5000	1.528
S1084Z-072S110	S1084Z-072A110	110	1.5278	1.556
S1084Z-072S120	S1084Z-072A120	120	1.6667	1.694
S1084Z-072S140	S1084Z-072A140	140	1.9444	1.972
S1084Z-072S144	S1084Z-072A144	144	2.0000	2.028
S1084Z-072S160	S1084Z-072A160	160	2.2222	2.250
S1084Z-072S180	S1084Z-072A180	180	2.5000	2.528
S1084Z-072S216	S1084Z-072A216	216	3.0000	3.028
S1084Z-072S234	S1084Z-072A234	234	3.2500	3.278
S1084Z-072S270	S1084Z-072A270	270	3.7500	3.778
S1084Z-072S300	S1084Z-072A300	300	4.1667	4.194

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1086Z-072S028	S1086Z-072A028	28	0.3889	0.417
S1086Z-072S030	S1086Z-072A030	30	0.4167	0.444
S1086Z-072S038	S1086Z-072A038	38	0.5278	0.556
S1086Z-072S040	S1086Z-072A040	40	0.5556	0.583
S1086Z-072S042	S1086Z-072A042	42	0.5833	0.611
S1086Z-072S044	S1086Z-072A044	44	0.6111	0.639
S1086Z-072S046	S1086Z-072A046	46	0.6389	0.667
S1086Z-072S048	S1086Z-072A048	48	0.6667	0.694
S1086Z-072S050	S1086Z-072A050	50	0.6944	0.722
S1086Z-072S054	S1086Z-072A054	54	0.7500	0.778
S1086Z-072S060	S1086Z-072A060	60	0.8333	0.861
S1086Z-072S063	S1086Z-072A063	63	0.8750	0.903
S1086Z-072S064	S1086Z-072A064	64	0.8889	0.917
S1086Z-072S070	S1086Z-072A070	70	0.9722	1.000
S1086Z-072S072	S1086Z-072A072	72	1.0000	1.028
S1086Z-072S080	S1086Z-072A080	80	1.1111	1.139
S1086Z-072S090	S1086Z-072A090	90	1.2500	1.278
S1086Z-072S096	S1086Z-072A096	96	1.3333	1.361
S1086Z-072S100	S1086Z-072A100	100	1.3889	1.417
S1086Z-072S110	S1086Z-072A110	110	1.5278	1.556
S1086Z-072S120	S1086Z-072A120	120	1.6667	1.694
S1086Z-072S126	S1086Z-072A126	126	1.7500	1.778
S1086Z-072S130	S1086Z-072A130	130	1.8056	1.833
S1086Z-072S136	S1086Z-072A136	136	1.8889	1.917
S1086Z-072S140	S1086Z-072A140	140	1.9444	1.972
S1086Z-072S150	S1086Z-072A150	150	2.0833	2.111
S1086Z-072S160	S1086Z-072A160	160	2.2222	2.250
S1086Z-072S180	S1086Z-072A180	180	2.5000	2.528
S1086Z-072S252	S1086Z-072A252	252	3.5000	3.528
S1086Z-072S300	S1086Z-072A300	300	4.1667	4.194

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



Fairloc® Hub Acetal Spur Gears - 72 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

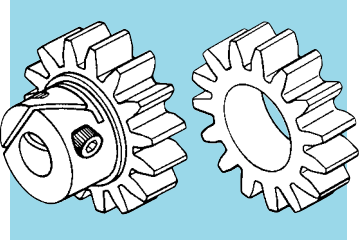
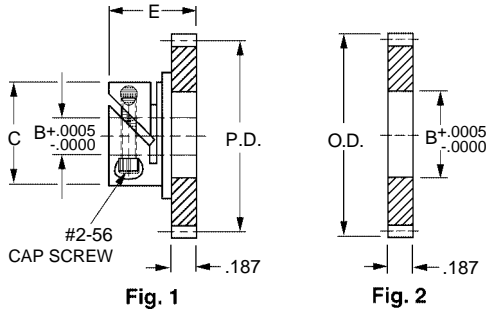


Fig. 1	Bore Ref.	C	E
	.1873	.438	.453
	.2498	.530	.483

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1V84Z-072DS040	S1V86Z-072DS040	S1288Z-072D040	40	0.5555	0.583
S1V84Z-072DS041	S1V86Z-072DS041	S1288Z-072D041	41	0.5694	0.597
S1V84Z-072DS042	S1V86Z-072DS042	S1288Z-072D042	42	0.5833	0.611
S1V84Z-072DS043	S1V86Z-072DS043	S1288Z-072D043	43	0.5972	0.625
S1V84Z-072DS044	S1V86Z-072DS044	S1288Z-072D044	44	0.6111	0.639
S1V84Z-072DS045	S1V86Z-072DS045	S1288Z-072D045	45	0.6250	0.653
S1V84Z-072DS046	S1V86Z-072DS046	S1288Z-072D046	46	0.6388	0.667
S1V84Z-072DS048	S1V86Z-072DS048	S1288Z-072D048	48	0.6666	0.694
S1V84Z-072DS050	S1V86Z-072DS050	S1288Z-072D050	50	0.6944	0.722
S1V84Z-072DS054	S1V86Z-072DS054	S1288Z-072D054	54	0.7500	0.778
S1V84Z-072DS060	S1V86Z-072DS060	S1288Z-072D060	60	0.8333	0.861
S1V84Z-072DS066	S1V86Z-072DS066	S1288Z-072D066	66	0.9166	0.944
S1V84Z-072DS072	S1V86Z-072DS072	S1288Z-072D072	72	1.0000	1.028
S1V84Z-072DS075	S1V86Z-072DS075	S1288Z-072D075	75	1.0416	1.069
S1V84Z-072DS080	S1V86Z-072DS080	S1288Z-072D080	80	1.1111	1.139
S1V84Z-072DS084	S1V86Z-072DS084	S1288Z-072D084	84	1.1666	1.194
S1V84Z-072DS096	S1V86Z-072DS096	S1288Z-072D096	96	1.3333	1.361
S1V84Z-072DS099	S1V86Z-072DS099	S1288Z-072D099	99	1.3750	1.403
S1V84Z-072DS100	S1V86Z-072DS100	S1288Z-072D100	100	1.3888	1.417
S1V84Z-072DS108	S1V86Z-072DS108	S1288Z-072D108	108	1.5000	1.528
S1V84Z-072DS120	S1V86Z-072DS120	S1288Z-072D120	120	1.6666	1.694
S1V84Z-072DS126	S1V86Z-072DS126	S1288Z-072D126	126	1.7500	1.778
S1V84Z-072DS127	S1V86Z-072DS127	S1288Z-072D127	127	1.7638	1.792
S1V84Z-072DS132	S1V86Z-072DS132	S1288Z-072D132	132	1.8333	1.861
S1V84Z-072DS135	S1V86Z-072DS135	S1288Z-072D135	135	1.8750	1.903
S1V84Z-072DS140	S1V86Z-072DS140	S1288Z-072D140	140	1.9444	1.972
S1V84Z-072DS144	S1V86Z-072DS144	S1288Z-072D144	144	2.0000	2.028
S1V84Z-072DS150	S1V86Z-072DS150	S1288Z-072D150	150	2.0833	2.111
S1V84Z-072DS160	S1V86Z-072DS160	S1288Z-072D160	160	2.2222	2.250
S1V84Z-072DS180	S1V86Z-072DS180	S1288Z-072D180	180	2.5000	2.528
S1V84Z-072DS198	S1V86Z-072DS198	S1288Z-072D198	198	2.7500	2.778

Available on special order: 14-1/2° P.A., teeth not listed or different bore size.
This product is also available with pin type hubs. See page 1-46.



Acetal Spur Gears - 72 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

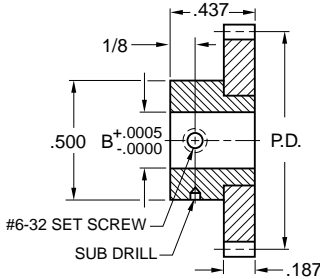


Fig. 1

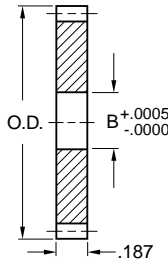
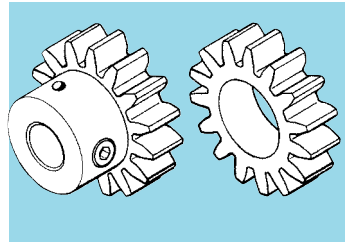


Fig. 2



MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
PIN TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1084Z-072DS040	S1086Z-072DS040	S1288Z-072D040	40	0.5555	0.583
S1084Z-072DS041	S1086Z-072DS041	S1288Z-072D041	41	0.5694	0.597
S1084Z-072DS042	S1086Z-072DS042	S1288Z-072D042	42	0.5833	0.611
S1084Z-072DS043	S1086Z-072DS043	S1288Z-072D043	43	0.5972	0.625
S1084Z-072DS044	S1086Z-072DS044	S1288Z-072D044	44	0.6111	0.639
S1084Z-072DS045	S1086Z-072DS045	S1288Z-072D045	45	0.6250	0.653
S1084Z-072DS046	S1086Z-072DS046	S1288Z-072D046	46	0.6388	0.667
S1084Z-072DS048	S1086Z-072DS048	S1288Z-072D048	48	0.6666	0.694
S1084Z-072DS050	S1086Z-072DS050	S1288Z-072D050	50	0.6944	0.722
S1084Z-072DS054	S1086Z-072DS054	S1288Z-072D054	54	0.7500	0.778
S1084Z-072DS060	S1086Z-072DS060	S1288Z-072D060	60	0.8333	0.861
S1084Z-072DS066	S1086Z-072DS066	S1288Z-072D066	66	0.9166	0.944
S1084Z-072DS072	S1086Z-072DS072	S1288Z-072D072	72	1.0000	1.028
S1084Z-072DS075	S1086Z-072DS075	S1288Z-072D075	75	1.0416	1.069
S1084Z-072DS080	S1086Z-072DS080	S1288Z-072D080	80	1.1111	1.139
S1084Z-072DS084	S1086Z-072DS084	S1288Z-072D084	84	1.1666	1.194
S1084Z-072DS096	S1086Z-072DS096	S1288Z-072D096	96	1.3333	1.361
S1084Z-072DS099	S1086Z-072DS099	S1288Z-072D099	99	1.3750	1.403
S1084Z-072DS100	S1086Z-072DS100	S1288Z-072D100	100	1.3888	1.417
S1084Z-072DS108	S1086Z-072DS108	S1288Z-072D108	108	1.5000	1.528
S1084Z-072DS120	S1086Z-072DS120	S1288Z-072D120	120	1.6666	1.694
S1084Z-072DS126	S1086Z-072DS126	S1288Z-072D126	126	1.7500	1.778
S1084Z-072DS127	S1086Z-072DS127	S1288Z-072D127	127	1.7638	1.792
S1084Z-072DS132	S1086Z-072DS132	S1288Z-072D132	132	1.8333	1.861
S1084Z-072DS135	S1086Z-072DS135	S1288Z-072D135	135	1.8750	1.903
S1084Z-072DS140	S1086Z-072DS140	S1288Z-072D140	140	1.9444	1.972
S1084Z-072DS144	S1086Z-072DS144	S1288Z-072D144	144	2.0000	2.028
S1084Z-072DS150	S1086Z-072DS150	S1288Z-072D150	150	2.0833	2.111
S1084Z-072DS160	S1086Z-072DS160	S1288Z-072D160	160	2.2222	2.250
S1084Z-072DS180	S1086Z-072DS180	S1288Z-072D180	180	2.5000	2.528
S1084Z-072DS198	S1086Z-072DS198	S1288Z-072D198	198	2.7500	2.778

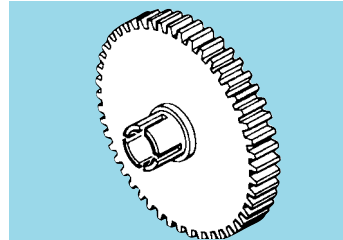
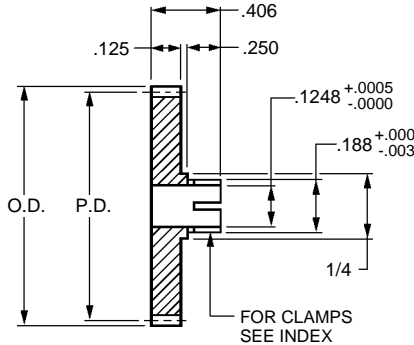
Available on special order: 14-1/2° P.A., teeth not listed, or different bore size.

This product is also available with Fairloc® hubs. See page 1-45.



Clamp Type Spur Gears - 72 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/8 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1163Z-072S020	S1163Z-072A020	20	0.2778	0.306
S1163Z-072S022	S1163Z-072A022	22	0.3056	0.333
S1163Z-072S024	S1163Z-072A024	24	0.3333	0.361
S1163Z-072S026	S1163Z-072A026	26	0.3611	0.389
S1163Z-072S028	S1163Z-072A028	28	0.3889	0.417
S1163Z-072S030	S1163Z-072A030	30	0.4167	0.444
S1163Z-072S032	S1163Z-072A032	32	0.4444	0.472
S1163Z-072S034	S1163Z-072A034	34	0.4722	0.500
S1163Z-072S036	S1163Z-072A036	36	0.5000	0.528
S1163Z-072S038	S1163Z-072A038	38	0.5278	0.556
S1163Z-072S040	S1163Z-072A040	40	0.5556	0.583
S1163Z-072S044	S1163Z-072A044	44	0.6111	0.639
S1163Z-072S045	S1163Z-072A045	45	0.6250	0.653
S1163Z-072S046	S1163Z-072A046	46	0.6389	0.667
S1163Z-072S048	S1163Z-072A048	48	0.6667	0.694
S1163Z-072S050	S1163Z-072A050	50	0.6944	0.722
S1163Z-072S056	S1163Z-072A056	56	0.7778	0.806
S1163Z-072S060	S1163Z-072A060	60	0.8333	0.861
S1163Z-072S064	S1163Z-072A064	64	0.8889	0.917
S1163Z-072S070	S1163Z-072A070	70	0.9722	1.000
S1163Z-072S072	S1163Z-072A072	72	1.0000	1.028
S1163Z-072S075	S1163Z-072A075	75	1.0417	1.069
S1163Z-072S080	S1163Z-072A080	80	1.1111	1.139
S1163Z-072S090	S1163Z-072A090	90	1.2500	1.278
S1163Z-072S096	S1163Z-072A096	96	1.3333	1.361
S1163Z-072S100	S1163Z-072A100	100	1.3889	1.417
S1163Z-072S110	S1163Z-072A110	110	1.5278	1.556
S1163Z-072S120	S1163Z-072A120	120	1.6667	1.694
S1163Z-072S130	S1163Z-072A130	130	1.8056	1.833
S1163Z-072S140	S1163Z-072A140	140	1.9444	1.972

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order : 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

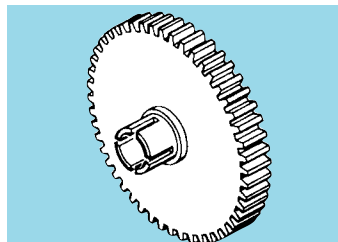
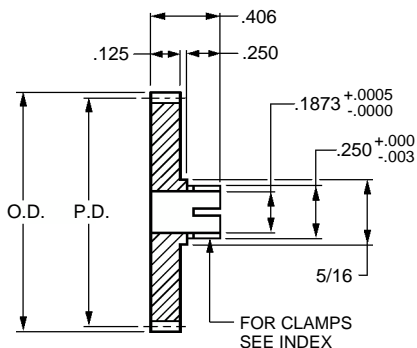
S INCH**Clamp Type Spur Gears - 72 Pitch**

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/16 BORE

**S** Precision Component

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1164Z-072S024	S1164Z-072A024	24	0.3333	0.361
S1164Z-072S027	S1164Z-072A027	27	0.3750	0.403
S1164Z-072S028	S1164Z-072A028	28	0.3889	0.417
S1164Z-072S030	S1164Z-072A030	30	0.4167	0.444
S1164Z-072S032	S1164Z-072A032	32	0.4444	0.472
S1164Z-072S036	S1164Z-072A036	36	0.5000	0.528
S1164Z-072S038	S1164Z-072A038	38	0.5278	0.556
S1164Z-072S040	S1164Z-072A040	40	0.5556	0.583
S1164Z-072S042	S1164Z-072A042	42	0.5833	0.611
S1164Z-072S044	S1164Z-072A044	44	0.6111	0.639
S1164Z-072S045	S1164Z-072A045	45	0.6250	0.653
S1164Z-072S046	S1164Z-072A046	46	0.6389	0.667
S1164Z-072S048	S1164Z-072A048	48	0.6667	0.694
S1164Z-072S050	S1164Z-072A050	50	0.6944	0.722
S1164Z-072S054	S1164Z-072A054	54	0.7500	0.778
S1164Z-072S060	S1164Z-072A060	60	0.8333	0.861
S1164Z-072S064	S1164Z-072A064	64	0.8889	0.917
S1164Z-072S070	S1164Z-072A070	70	0.9722	1.000
S1164Z-072S072	S1164Z-072A072	72	1.0000	1.028
S1164Z-072S080	S1164Z-072A080	80	1.1111	1.139
S1164Z-072S084	S1164Z-072A084	84	1.1667	1.194
S1164Z-072S090	S1164Z-072A090	90	1.2500	1.278
S1164Z-072S096	S1164Z-072A096	96	1.3333	1.361
S1164Z-072S100	S1164Z-072A100	100	1.3889	1.417
S1164Z-072S108	S1164Z-072A108	108	1.5000	1.528
S1164Z-072S110	S1164Z-072A110	110	1.5278	1.556
S1164Z-072S120	S1164Z-072A120	120	1.6667	1.694
S1164Z-072S126	S1164Z-072A126	126	1.7500	1.778
S1164Z-072S130	S1164Z-072A130	130	1.8056	1.833
S1164Z-072S140	S1164Z-072A140	140	1.9444	1.972

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



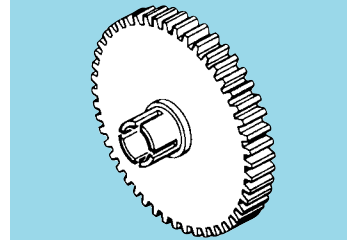
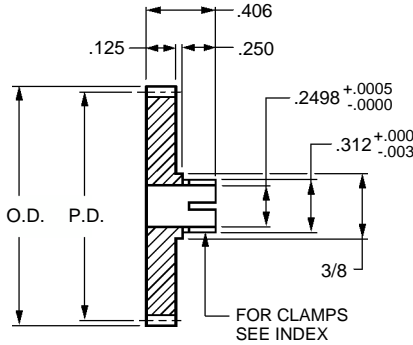
Clamp Type Spur Gears - 72 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1166Z-072S027	S1166Z-072A027	27	0.3750	0.403
S1166Z-072S028	S1166Z-072A028	28	0.3889	0.417
S1166Z-072S030	S1166Z-072A030	30	0.4167	0.444
S1166Z-072S032	S1166Z-072A032	32	0.4444	0.472
S1166Z-072S036	S1166Z-072A036	36	0.5000	0.528
S1166Z-072S038	S1166Z-072A038	38	0.5278	0.556
S1166Z-072S040	S1166Z-072A040	40	0.5556	0.583
S1166Z-072S042	S1166Z-072A042	42	0.5833	0.611
S1166Z-072S044	S1166Z-072A044	44	0.6111	0.639
S1166Z-072S045	S1166Z-072A045	45	0.6250	0.653
S1166Z-072S046	S1166Z-072A046	46	0.6389	0.667
S1166Z-072S048	S1166Z-072A048	48	0.6667	0.694
S1166Z-072S050	S1166Z-072A050	50	0.6944	0.722
S1166Z-072S056	S1166Z-072A056	56	0.7778	0.806
S1166Z-072S060	S1166Z-072A060	60	0.8333	0.861
S1166Z-072S063	S1166Z-072A063	63	0.8750	0.903
S1166Z-072S064	S1166Z-072A064	64	0.8889	0.917
S1166Z-072S070	S1166Z-072A070	70	0.9722	1.000
S1166Z-072S072	S1166Z-072A072	72	1.0000	1.028
S1166Z-072S075	S1166Z-072A075	75	1.0417	1.069
S1166Z-072S080	S1166Z-072A080	80	1.1111	1.139
S1166Z-072S090	S1166Z-072A090	90	1.2500	1.278
S1166Z-072S099	S1166Z-072A099	99	1.3750	1.403
S1166Z-072S108	S1166Z-072A108	108	1.5000	1.528
S1166Z-072S126	S1166Z-072A126	126	1.7500	1.778
S1166Z-072S144	S1166Z-072A144	144	2.0000	2.028
S1166Z-072S180	S1166Z-072A180	180	2.5000	2.528
S1166Z-072S198	S1166Z-072A198	198	2.7500	2.778
S1166Z-072S216	S1166Z-072A216	216	3.0000	3.028
S1166Z-072S297	S1166Z-072A297	297	4.1250	4.153

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



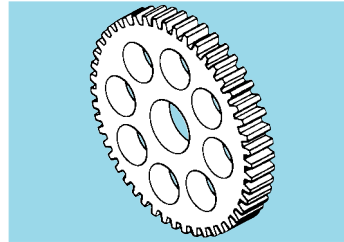
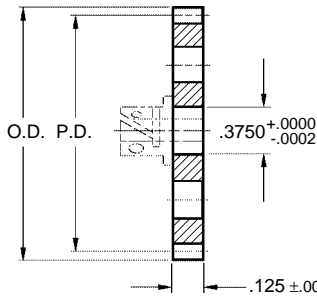
Hubless Spur Gears - 72 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.



- All gears over 2-1/8" diameter supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-072S043	S1268Z-072A043	43	0.5972	0.625
S1268Z-072S046	S1268Z-072A046	46	0.6389	0.667
S1268Z-072S048	S1268Z-072A048	48	0.6667	0.694
S1268Z-072S054	S1268Z-072A054	54	0.7500	0.778
S1268Z-072S060	S1268Z-072A060	60	0.8333	0.861
S1268Z-072S064	S1268Z-072A064	64	0.8889	0.917
S1268Z-072S072	S1268Z-072A072	72	1.0000	1.028
S1268Z-072S080	S1268Z-072A080	80	1.1111	1.139
S1268Z-072S084	S1268Z-072A084	84	1.1667	1.194
S1268Z-072S090	S1268Z-072A090	90	1.2500	1.278
S1268Z-072S096	S1268Z-072A096	96	1.3333	1.361
S1268Z-072S100	S1268Z-072A100	100	1.3889	1.417
S1268Z-072S105	S1268Z-072A105	105	1.4583	1.486
S1268Z-072S108	S1268Z-072A108	108	1.5000	1.528
S1268Z-072S110	S1268Z-072A110	110	1.5278	1.556
S1268Z-072S120	S1268Z-072A120	120	1.6667	1.694
S1268Z-072S130	S1268Z-072A130	130	1.8056	1.833
S1268Z-072S135	S1268Z-072A135	135	1.8750	1.903
S1268Z-072S140	S1268Z-072A140	140	1.9444	1.972
S1268Z-072S144	S1268Z-072A144	144	2.0000	2.028
S1268Z-072S150	S1268Z-072A150	150	2.0833	2.111
S1268Z-072S160	S1268Z-072A160	160	2.2222	2.250
S1268Z-072S170	S1268Z-072A170	170	2.3611	2.389
S1268Z-072S180	S1268Z-072A180	180	2.5000	2.528
S1268Z-072S192	S1268Z-072A192	192	2.6667	2.694
S1268Z-072S200	S1268Z-072A200	200	2.7778	2.806
S1268Z-072S210	S1268Z-072A210	210	2.9167	2.944
S1268Z-072S216	S1268Z-072A216	216	3.0000	3.028
S1268Z-072S288	S1268Z-072A288	288	4.0000	4.028
S1268Z-072S297	S1268Z-072A297	297	4.1250	4.153

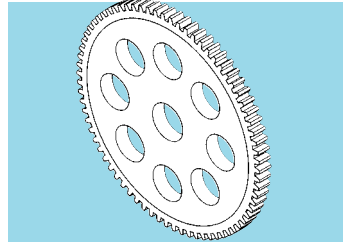
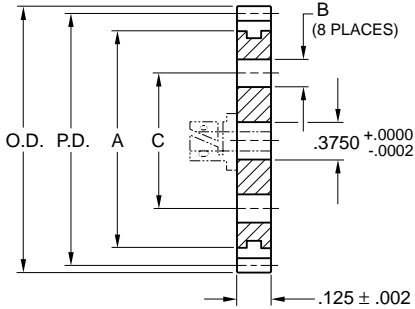
* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



Aluminum-Acetal Gears - 72 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/8 BORE



MATERIAL: Core – Aluminum 2024-T3, Chemical Filmed
Rim – Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	A Dia.	B Dia.	C Dia.
S1268Z-072M072	72	1.0000	1.028	5/8	—	—
S1268Z-072M081	81	1.1250	1.153	7/8		
S1268Z-072M090	90	1.2500	1.278			
S1268Z-072M095	95	1.3194	1.347			
S1268Z-072M096	96	1.3333	1.361			
S1268Z-072M100	100	1.3889	1.417	1-1/8		
S1268Z-072M110	110	1.5278	1.556			
S1268Z-072M120	120	1.6667	1.694	1-3/8		
S1268Z-072M130	130	1.8056	1.833			
S1268Z-072M140	140	1.9444	1.972			
S1268Z-072M150	150	2.0833	2.111	1-5/8	7/32	3/16
S1268Z-072M160	160	2.2222	2.250	1-7/8	5/16	1-3/32
S1268Z-072M170	170	2.3611	2.389	2-1/8	3/8	1-3/8
S1268Z-072M180	180	2.5000	2.528			
S1268Z-072M190	190	2.6389	2.667	2-3/8		1-3/8
S1268Z-072M200	200	2.7778	2.806			
S1268Z-072M210	210	2.9167	2.944			

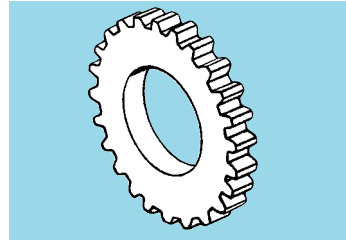
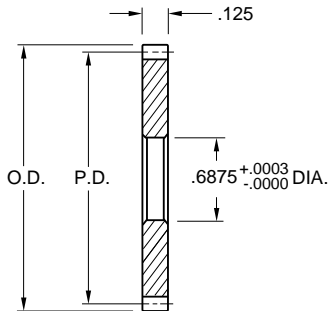
See Index for hubs. Assembled upon request at a nominal charge.
Available on special order: 14-1/2° P.A., teeth not listed, different bore and/or materials.

■ AGMA Q12

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 11/16 BORE

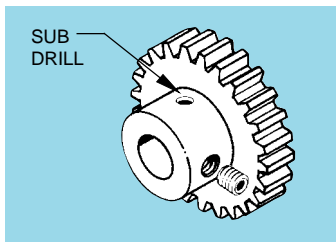
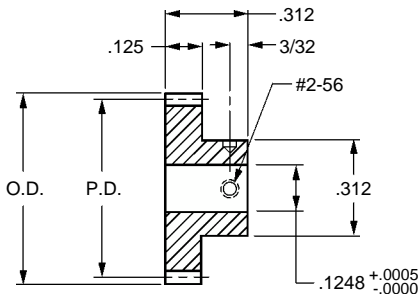


Catalog Number		Number of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum Anodized Before Hobbing			
S1269Z-072S070C	S1269Z-072A070C	70	.9722	1.0000
S1269Z-072S072C	S1269Z-072A072C	72	1.0000	1.0278
S1269Z-072S080C	S1269Z-072A080C	80	1.1111	1.1389
S1269Z-072S082C	S1269Z-072A082C	82	1.1389	1.1667
S1269Z-072S090C	S1269Z-072A090C	90	1.2500	1.2778
S1269Z-072S096C	S1269Z-072A096C	96	1.3333	1.3611
S1269Z-072S100C	S1269Z-072A100C	100	1.3889	1.4167
S1269Z-072S110C	S1269Z-072A110C	110	1.5278	1.5556
S1269Z-072S120C	S1269Z-072A120C	120	1.6667	1.6944
S1269Z-072S130C	S1269Z-072A130C	130	1.8056	1.8333
S1269Z-072S140C	S1269Z-072A140C	140	1.9444	1.9722
S1269Z-072S144C	S1269Z-072A144C	144	2.0000	2.0278

NOTE: The end gears shown on this page will be assembled to differentials which are ordered at the same time, free of charge.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and / or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/8 BORE

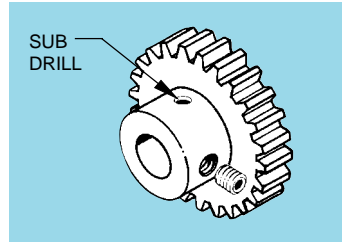
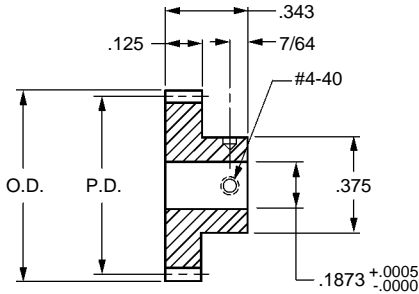


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1063Z-064S018	S1063Z-064A018	18	0.2813	0.313
S1063Z-064S021	S1063Z-064A021	21	0.3281	0.359
S1063Z-064S022	S1063Z-064A022	22	0.3438	0.375
S1063Z-064S024	S1063Z-064A024	24	0.3750	0.406
S1063Z-064S025	S1063Z-064A025	25	0.3906	0.422
S1063Z-064S028	S1063Z-064A028	28	0.4375	0.469
S1063Z-064S030	S1063Z-064A030	30	0.4688	0.500
S1063Z-064S032	S1063Z-064A032	32	0.5000	0.531
S1063Z-064S034	S1063Z-064A034	34	0.5313	0.563
S1063Z-064S036	S1063Z-064A036	36	0.5625	0.594
S1063Z-064S038	S1063Z-064A038	38	0.5938	0.625
S1063Z-064S040	S1063Z-064A040	40	0.6250	0.656
S1063Z-064S044	S1063Z-064A044	44	0.6875	0.719
S1063Z-064S046	S1063Z-064A046	46	0.7188	0.750
S1063Z-064S048	S1063Z-064A048	48	0.7500	0.781
S1063Z-064S050	S1063Z-064A050	50	0.7813	0.813
S1063Z-064S055	S1063Z-064A055	55	0.8594	0.891
S1063Z-064S056	S1063Z-064A056	56	0.8750	0.906
S1063Z-064S060	S1063Z-064A060	60	0.9375	0.969
S1063Z-064S064	S1063Z-064A064	64	1.0000	1.031
S1063Z-064S070	S1063Z-064A070	70	1.0938	1.125
S1063Z-064S072	S1063Z-064A072	72	1.1250	1.156
S1063Z-064S080	S1063Z-064A080	80	1.2500	1.281
S1063Z-064S084	S1063Z-064A084	84	1.3125	1.344
S1063Z-064S090	S1063Z-064A090	90	1.4063	1.438
S1063Z-064S096	S1063Z-064A096	96	1.5000	1.531
S1063Z-064S112	S1063Z-064A112	112	1.7500	1.781
S1063Z-064S120	S1063Z-064A120	120	1.8750	1.906
S1063Z-064S128	S1063Z-064A128	128	2.0000	2.031
S1063Z-064S136	S1063Z-064A136	136	2.1250	2.156

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE



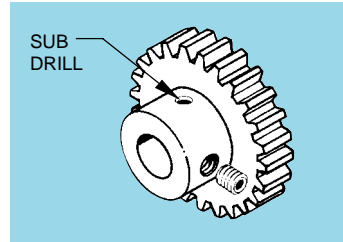
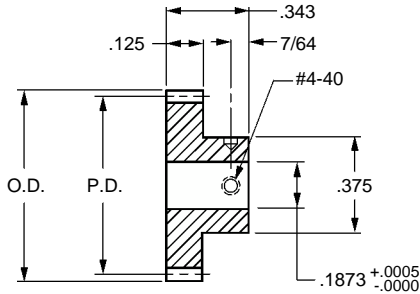
Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1064Z-064S022	S1064Z-064A022	22	0.3438	0.375
S1064Z-064S024	S1064Z-064A024	24	0.3750	0.406
S1064Z-064S025	S1064Z-064A025	25	0.3906	0.422
S1064Z-064S026	S1064Z-064A026	26	0.4063	0.438
S1064Z-064S027	S1064Z-064A027	27	0.4219	0.453
S1064Z-064S028	S1064Z-064A028	28	0.4375	0.469
S1064Z-064S029	S1064Z-064A029	29	0.4531	0.484
S1064Z-064S030	S1064Z-064A030	30	0.4688	0.500
S1064Z-064S031	S1064Z-064A031	31	0.4844	0.516
S1064Z-064S032	S1064Z-064A032	32	0.5000	0.531
S1064Z-064S034	S1064Z-064A034	34	0.5313	0.563
S1064Z-064S035	S1064Z-064A035	35	0.5469	0.578
S1064Z-064S036	S1064Z-064A036	36	0.5625	0.594
S1064Z-064S038	S1064Z-064A038	38	0.5938	0.625
S1064Z-064S040	S1064Z-064A040	40	0.6250	0.656
S1064Z-064S042	S1064Z-064A042	42	0.6563	0.688
S1064Z-064S044	S1064Z-064A044	44	0.6875	0.719
S1064Z-064S045	S1064Z-064A045	45	0.7031	0.734
S1064Z-064S046	S1064Z-064A046	46	0.7188	0.750
S1064Z-064S048	S1064Z-064A048	48	0.7500	0.781
S1064Z-064S050	S1064Z-064A050	50	0.7813	0.813
S1064Z-064S055	S1064Z-064A055	55	0.8594	0.891
S1064Z-064S056	S1064Z-064A056	56	0.8750	0.906
S1064Z-064S060	S1064Z-064A060	60	0.9375	0.969
S1064Z-064S064	S1064Z-064A064	64	1.0000	1.031
S1064Z-064S065	S1064Z-064A065	65	1.0156	1.047
S1064Z-064S070	S1064Z-064A070	70	1.0938	1.125
S1064Z-064S072	S1064Z-064A072	72	1.1250	1.156
S1064Z-064S075	S1064Z-064A075	75	1.1719	1.203
S1064Z-064S080	S1064Z-064A080	80	1.2500	1.281

* T4 or T351 Aluminum Alloy, anodized before cutting.

Continued on the next page

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE

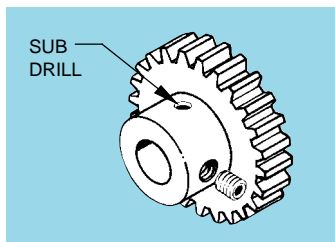
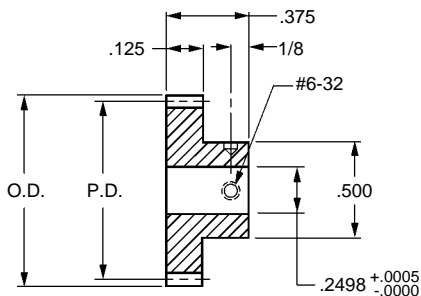


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1064Z-064S084	S1064Z-064A084	84	1.3125	1.344
S1064Z-064S085	S1064Z-064A085	85	1.3281	1.359
S1064Z-064S088	S1064Z-064A088	88	1.3750	1.406
S1064Z-064S090	S1064Z-064A090	90	1.4063	1.438
S1064Z-064S092	S1064Z-064A092	92	1.4375	1.469
S1064Z-064S095	S1064Z-064A095	95	1.4844	1.516
S1064Z-064S096	S1064Z-064A096	96	1.5000	1.531
S1064Z-064S100	S1064Z-064A100	100	1.5625	1.594
S1064Z-064S105	S1064Z-064A105	105	1.6406	1.672
S1064Z-064S110	S1064Z-064A110	110	1.7188	1.750
S1064Z-064S115	S1064Z-064A115	115	1.7969	1.828
S1064Z-064S120	S1064Z-064A120	120	1.8750	1.906
S1064Z-064S122	S1064Z-064A122	122	1.9063	1.938
S1064Z-064S124	S1064Z-064A124	124	1.9375	1.969
S1064Z-064S128	S1064Z-064A128	128	2.0000	2.031
S1064Z-064S130	S1064Z-064A130	130	2.0313	2.063
S1064Z-064S136	S1064Z-064A136	136	2.1250	2.156
S1064Z-064S140	S1064Z-064A140	140	2.1875	2.219
S1064Z-064S144	S1064Z-064A144	144	2.2500	2.281
S1064Z-064S150	S1064Z-064A150	150	2.3438	2.375
S1064Z-064S152	S1064Z-064A152	152	2.3750	2.406
S1064Z-064S160	S1064Z-064A160	160	2.5000	2.531
S1064Z-064S168	S1064Z-064A168	168	2.6250	2.656
S1064Z-064S170	S1064Z-064A170	170	2.6563	2.688
S1064Z-064S176	S1064Z-064A176	176	2.7500	2.781
S1064Z-064S184	S1064Z-064A184	184	2.8750	2.906
S1064Z-064S192	S1064Z-064A192	192	3.0000	3.031
S1064Z-064S200	S1064Z-064A200	200	3.1250	3.156
S1064Z-064S224	S1064Z-064A224	224	3.5000	3.531
S1064Z-064S256	S1064Z-064A256	256	4.0000	4.031

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/4 BORE



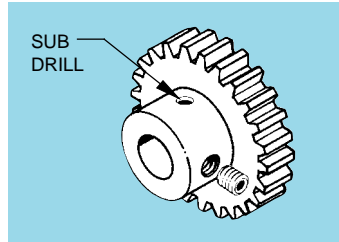
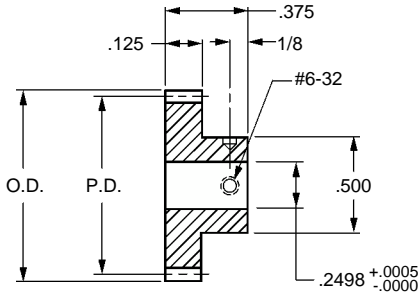
Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-064S026	S1066Z-064A026	26	0.4063	0.438
S1066Z-064S027	S1066Z-064A027	27	0.4219	0.453
S1066Z-064S030	S1066Z-064A030	30	0.4688	0.500
S1066Z-064S032	S1066Z-064A032	32	0.5000	0.531
S1066Z-064S034	S1066Z-064A034	34	0.5313	0.563
S1066Z-064S035	S1066Z-064A035	35	0.5469	0.578
S1066Z-064S036	S1066Z-064A036	36	0.5625	0.594
S1066Z-064S038	S1066Z-064A038	38	0.5938	0.625
S1066Z-064S040	S1066Z-064A040	40	0.6250	0.656
S1066Z-064S042	S1066Z-064A042	42	0.6563	0.688
S1066Z-064S044	S1066Z-064A044	44	0.6875	0.719
S1066Z-064S045	S1066Z-064A045	45	0.7031	0.734
S1066Z-064S046	S1066Z-064A046	46	0.7188	0.750
S1066Z-064S048	S1066Z-064A048	48	0.7500	0.781
S1066Z-064S050	S1066Z-064A050	50	0.7813	0.813
S1066Z-064S054	S1066Z-064A054	54	0.8438	0.875
S1066Z-064S055	S1066Z-064A055	55	0.8594	0.891
S1066Z-064S056	S1066Z-064A056	56	0.8750	0.906
S1066Z-064S060	S1066Z-064A060	60	0.9375	0.969
S1066Z-064S064	S1066Z-064A064	64	1.0000	1.031
S1066Z-064S070	S1066Z-064A070	70	1.0938	1.125
S1066Z-064S072	S1066Z-064A072	72	1.1250	1.156
S1066Z-064S075	S1066Z-064A075	75	1.1719	1.203
S1066Z-064S080	S1066Z-064A080	80	1.2500	1.281
S1066Z-064S084	S1066Z-064A084	84	1.3125	1.344
S1066Z-064S085	S1066Z-064A085	85	1.3281	1.359
S1066Z-064S086	S1066Z-064A086	86	1.3438	1.375
S1066Z-064S090	S1066Z-064A090	90	1.4063	1.438
S1066Z-064S095	S1066Z-064A095	95	1.4844	1.516
S1066Z-064S096	S1066Z-064A096	96	1.5000	1.531

* T4 or T351 Aluminum Alloy, anodized before cutting.

Continued on the next page

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/4 BORE

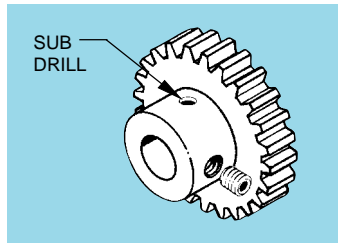
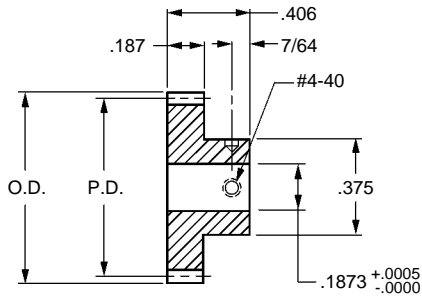


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-064S100	S1066Z-064A100	100	1.5625	1.594
S1066Z-064S104	S1066Z-064A104	104	1.6250	1.656
S1066Z-064S110	S1066Z-064A110	110	1.7188	1.750
S1066Z-064S112	S1066Z-064A112	112	1.7500	1.781
S1066Z-064S120	S1066Z-064A120	120	1.8750	1.906
S1066Z-064S124	S1066Z-064A124	124	1.9375	1.969
S1066Z-064S128	S1066Z-064A128	128	2.0000	2.031
S1066Z-064S130	S1066Z-064A130	130	2.0313	2.063
S1066Z-064S135	S1066Z-064A135	135	2.1094	2.141
S1066Z-064S136	S1066Z-064A136	136	2.1250	2.156
S1066Z-064S140	S1066Z-064A140	140	2.1875	2.219
S1066Z-064S144	S1066Z-064A144	144	2.2500	2.281
S1066Z-064S150	S1066Z-064A150	150	2.3438	2.375
S1066Z-064S152	S1066Z-064A152	152	2.3750	2.406
S1066Z-064S160	S1066Z-064A160	160	2.5000	2.531
S1066Z-064S165	S1066Z-064A165	165	2.5781	2.609
S1066Z-064S168	S1066Z-064A168	168	2.6250	2.656
S1066Z-064S170	S1066Z-064A170	170	2.6563	2.688
S1066Z-064S176	S1066Z-064A176	176	2.7500	2.781
S1066Z-064S184	S1066Z-064A184	184	2.8750	2.906
S1066Z-064S192	S1066Z-064A192	192	3.0000	3.031
S1066Z-064S200	S1066Z-064A200	200	3.1250	3.156
S1066Z-064S208	S1066Z-064A208	208	3.2500	3.281
S1066Z-064S216	S1066Z-064A216	216	3.3750	3.406
S1066Z-064S224	S1066Z-064A224	224	3.5000	3.531
S1066Z-064S232	S1066Z-064A232	232	3.6250	3.656
S1066Z-064S240	S1066Z-064A240	240	3.7500	3.781
S1066Z-064S248	S1066Z-064A248	248	3.8750	3.906
S1066Z-064S256	S1066Z-064A256	256	4.0000	4.031
S1066Z-064S264	S1066Z-064A264	264	4.1250	4.156

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

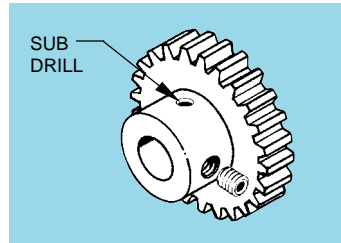
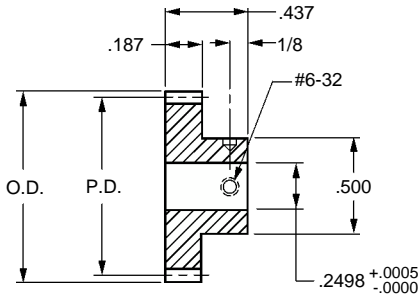
- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1084Z-064S022	S1084Z-064A022	22	0.3438	0.375
S1084Z-064S025	S1084Z-064A025	25	0.3906	0.422
S1084Z-064S028	S1084Z-064A028	28	0.4375	0.469
S1084Z-064S030	S1084Z-064A030	30	0.4688	0.500
S1084Z-064S032	S1084Z-064A032	32	0.5000	0.531
S1084Z-064S036	S1084Z-064A036	36	0.5625	0.594
S1084Z-064S040	S1084Z-064A040	40	0.6250	0.656
S1084Z-064S046	S1084Z-064A046	46	0.7188	0.750
S1084Z-064S048	S1084Z-064A048	48	0.7500	0.781
S1084Z-064S050	S1084Z-064A050	50	0.7813	0.813
S1084Z-064S060	S1084Z-064A060	60	0.9375	0.969
S1084Z-064S064	S1084Z-064A064	64	1.0000	1.031
S1084Z-064S070	S1084Z-064A070	70	1.0938	1.125
S1084Z-064S075	S1084Z-064A075	75	1.1719	1.203
S1084Z-064S080	S1084Z-064A080	80	1.2500	1.281
S1084Z-064S088	S1084Z-064A088	88	1.3750	1.406
S1084Z-064S096	S1084Z-064A096	96	1.5000	1.531
S1084Z-064S100	S1084Z-064A100	100	1.5625	1.594
S1084Z-064S105	S1084Z-064A105	105	1.6406	1.672
S1084Z-064S110	S1084Z-064A110	110	1.7188	1.750
S1084Z-064S120	S1084Z-064A120	120	1.8750	1.906
S1084Z-064S128	S1084Z-064A128	128	2.0000	2.031
S1084Z-064S136	S1084Z-064A136	136	2.1250	2.156
S1084Z-064S144	S1084Z-064A144	144	2.2500	2.281
S1084Z-064S152	S1084Z-064A152	152	2.3750	2.406
S1084Z-064S160	S1084Z-064A160	160	2.5000	2.531
S1084Z-064S192	S1084Z-064A192	192	3.0000	3.031
S1084Z-064S200	S1084Z-064A200	200	3.1250	3.156
S1084Z-064S240	S1084Z-064A240	240	3.7500	3.781
S1084Z-064S264	S1084Z-064A264	264	4.1250	4.156

* T4 or T351 Aluminum Alloy, anodized before cutting.
 Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1086Z-064S026	S1086Z-064A026	26	0.4063	0.438
S1086Z-064S028	S1086Z-064A028	28	0.4375	0.469
S1086Z-064S032	S1086Z-064A032	32	0.5000	0.531
S1086Z-064S038	S1086Z-064A038	38	0.5938	0.625
S1086Z-064S040	S1086Z-064A040	40	0.6250	0.656
S1086Z-064S042	S1086Z-064A042	42	0.6563	0.688
S1086Z-064S048	S1086Z-064A048	48	0.7500	0.781
S1086Z-064S050	S1086Z-064A050	50	0.7813	0.813
S1086Z-064S056	S1086Z-064A056	56	0.8750	0.906
S1086Z-064S060	S1086Z-064A060	60	0.9375	0.969
S1086Z-064S064	S1086Z-064A064	64	1.0000	1.031
S1086Z-064S070	S1086Z-064A070	70	1.0938	1.125
S1086Z-064S072	S1086Z-064A072	72	1.1250	1.156
S1086Z-064S080	S1086Z-064A080	80	1.2500	1.281
S1086Z-064S084	S1086Z-064A084	84	1.3125	1.344
S1086Z-064S090	S1086Z-064A090	90	1.4063	1.438
S1086Z-064S096	S1086Z-064A096	96	1.5000	1.531
S1086Z-064S104	S1086Z-064A104	104	1.6250	1.656
S1086Z-064S112	S1086Z-064A112	112	1.7500	1.781
S1086Z-064S128	S1086Z-064A128	128	2.0000	2.031
S1086Z-064S130	S1086Z-064A130	130	2.0313	2.063
S1086Z-064S144	S1086Z-064A144	144	2.2500	2.281
S1086Z-064S160	S1086Z-064A160	160	2.5000	2.531
S1086Z-064S176	S1086Z-064A176	176	2.7500	2.781
S1086Z-064S192	S1086Z-064A192	192	3.0000	3.031
S1086Z-064S200	S1086Z-064A200	200	3.1250	3.156
S1086Z-064S224	S1086Z-064A224	224	3.5000	3.531
S1086Z-064S240	S1086Z-064A240	240	3.7500	3.781
S1086Z-064S256	S1086Z-064A256	256	4.0000	4.031
S1086Z-064S264	S1086Z-064A264	264	4.1250	4.156

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



Fairloc® Hub Acetal Spur Gears - 64 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

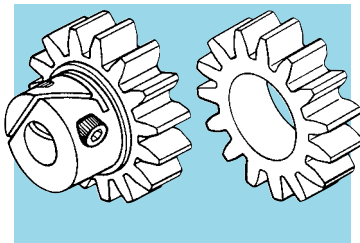
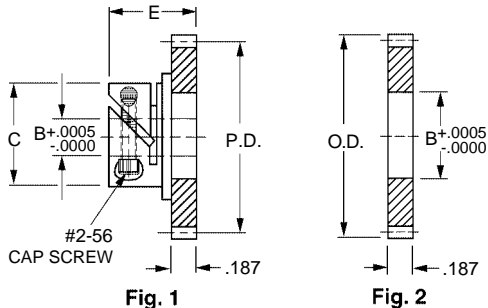


Fig. 1	Bore Ref.	C	E
	.1873	.438	.453
	.2498	.530	.483

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1V84Z-064DS036	S1V86Z-064DS036	S1288Z-064D036	36	.5625	.594
S1V84Z-064DS037	S1V86Z-064DS037	S1288Z-064D037	37	.5781	.609
S1V84Z-064DS038	S1V86Z-064DS038	S1288Z-064D038	38	.5938	.625
S1V84Z-064DS040	S1V86Z-064DS040	S1288Z-064D040	40	.6250	.656
S1V84Z-064DS042	S1V86Z-064DS042	S1288Z-064D042	42	.6563	.688
S1V84Z-064DS044	S1V86Z-064DS044	S1288Z-064D044	44	.6875	.719
S1V84Z-064DS046	S1V86Z-064DS046	S1288Z-064D046	46	.7188	.750
S1V84Z-064DS048	S1V86Z-064DS048	S1288Z-064D048	48	.7500	.781
S1V84Z-064DS050	S1V86Z-064DS050	S1288Z-064D050	50	.7813	.813
S1V84Z-064DS056	S1V86Z-064DS056	S1288Z-064D056	56	.8750	.906
S1V84Z-064DS060	S1V86Z-064DS060	S1288Z-064D060	60	.9375	.969
S1V84Z-064DS064	S1V86Z-064DS064	S1288Z-064D064	64	1.0000	1.031
S1V84Z-064DS072	S1V86Z-064DS072	S1288Z-064D072	72	1.1250	1.156
S1V84Z-064DS074	S1V86Z-064DS074	S1288Z-064D074	74	1.1563	1.188
S1V84Z-064DS080	S1V86Z-064DS080	S1288Z-064D080	80	1.2500	1.281
S1V84Z-064DS084	S1V86Z-064DS084	S1288Z-064D084	84	1.3125	1.344
S1V84Z-064DS088	S1V86Z-064DS088	S1288Z-064D088	88	1.3750	1.406
S1V84Z-064DS090	S1V86Z-064DS090	S1288Z-064D090	90	1.4063	1.438
S1V84Z-064DS096	S1V86Z-064DS096	S1288Z-064D096	96	1.5000	1.531
S1V84Z-064DS100	S1V86Z-064DS100	S1288Z-064D100	100	1.5625	1.594
S1V84Z-064DS112	S1V86Z-064DS112	S1288Z-064D112	112	1.7500	1.781
S1V84Z-064DS120	S1V86Z-064DS120	S1288Z-064D120	120	1.8750	1.906
S1V84Z-064DS127	S1V86Z-064DS127	S1288Z-064D127	127	1.9844	2.016
S1V84Z-064DS128	S1V86Z-064DS128	S1288Z-064D128	128	2.0000	2.031
S1V84Z-064DS144	S1V86Z-064DS144	S1288Z-064D144	144	2.2500	2.281
S1V84Z-064DS152	S1V86Z-064DS152	S1288Z-064D152	152	2.3750	2.406
S1V84Z-064DS160	S1V86Z-064DS160	S1288Z-064D160	160	2.5000	2.531
S1V84Z-064DS168	S1V86Z-064DS168	S1288Z-064D168	168	2.6250	2.656
S1V84Z-064DS176	S1V86Z-064DS176	S1288Z-064D176	176	2.7500	2.781
S1V84Z-064DS184	S1V86Z-064DS184	S1288Z-064D184	184	2.8750	2.906
S1V84Z-064DS192	S1V86Z-064DS192	S1288Z-064D192	192	3.0000	3.031
S1V84Z-064DS224	S1V86Z-064DS224	S1288Z-064D224	224	3.5000	3.531

Available on special order: 14-1/2° P.A., teeth not listed or different bore size.
This product is also available with pin type hubs. See page 1-61.



Acetal Spur Gears - 64 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

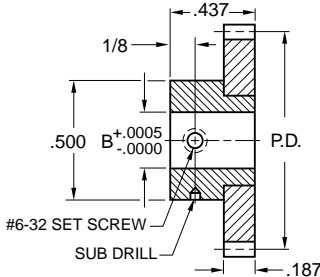


Fig. 1

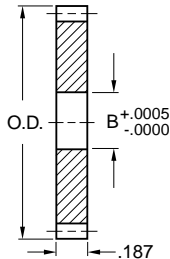
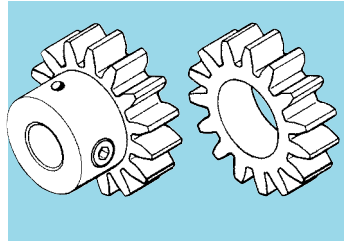


Fig. 2



MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
PIN TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1084Z-064DS036	S1086Z-064DS036	S1288Z-064D036	36	.5625	.594
S1084Z-064DS037	S1086Z-064DS037	S1288Z-064D037	37	.5781	.609
S1084Z-064DS038	S1086Z-064DS038	S1288Z-064D038	38	.5938	.625
S1084Z-064DS040	S1086Z-064DS040	S1288Z-064D040	40	.6250	.656
S1084Z-064DS042	S1086Z-064DS042	S1288Z-064D042	42	.6563	.688
S1084Z-064DS044	S1086Z-064DS044	S1288Z-064D044	44	.6875	.719
S1084Z-064DS046	S1086Z-064DS046	S1288Z-064D046	46	.7188	.750
S1084Z-064DS048	S1086Z-064DS048	S1288Z-064D048	48	.7500	.781
S1084Z-064DS050	S1086Z-064DS050	S1288Z-064D050	50	.7813	.813
S1084Z-064DS056	S1086Z-064DS056	S1288Z-064D056	56	.8750	.906
S1084Z-064DS060	S1086Z-064DS060	S1288Z-064D060	60	.9375	.969
S1084Z-064DS064	S1086Z-064DS064	S1288Z-064D064	64	1.0000	1.031
S1084Z-064DS072	S1086Z-064DS072	S1288Z-064D072	72	1.1250	1.156
S1084Z-064DS074	S1086Z-064DS074	S1288Z-064D074	74	1.1563	1.188
S1084Z-064DS080	S1086Z-064DS080	S1288Z-064D080	80	1.2500	1.281
S1084Z-064DS084	S1086Z-064DS084	S1288Z-064D084	84	1.3125	1.344
S1084Z-064DS088	S1086Z-064DS088	S1288Z-064D088	88	1.3750	1.406
S1084Z-064DS090	S1086Z-064DS090	S1288Z-064D090	90	1.4063	1.438
S1084Z-064DS096	S1086Z-064DS096	S1288Z-064D096	96	1.5000	1.531
S1084Z-064DS100	S1086Z-064DS100	S1288Z-064D100	100	1.5625	1.594
S1084Z-064DS112	S1086Z-064DS112	S1288Z-064D112	112	1.7500	1.781
S1084Z-064DS120	S1086Z-064DS120	S1288Z-064D120	120	1.8750	1.906
S1084Z-064DS127	S1086Z-064DS127	S1288Z-064D127	127	1.9844	2.016
S1084Z-064DS128	S1086Z-064DS128	S1288Z-064D128	128	2.0000	2.031
S1084Z-064DS144	S1086Z-064DS144	S1288Z-064D144	144	2.2500	2.281
S1084Z-064DS152	S1086Z-064DS152	S1288Z-064D152	152	2.3750	2.406
S1084Z-064DS160	S1086Z-064DS160	S1288Z-064D160	160	2.5000	2.531
S1084Z-064DS168	S1086Z-064DS168	S1288Z-064D168	168	2.6250	2.656
S1084Z-064DS176	S1086Z-064DS176	S1288Z-064D176	176	2.7500	2.781
S1084Z-064DS184	S1086Z-064DS184	S1288Z-064D184	184	2.8750	2.906
S1084Z-064DS192	S1086Z-064DS192	S1288Z-064D192	192	3.0000	3.031
S1084Z-064DS224	S1086Z-064DS224	S1288Z-064D224	224	3.5000	3.531

Available on special order: 14-1/2° P.A., teeth not listed, or different bore size.

This product is also available with Fairloc® hubs. See page 1-60.

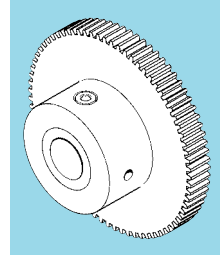
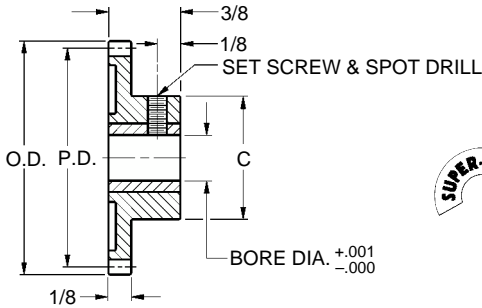


Nonmetallic Spur Gears - 64 Pitch

■ AGMA Q8

■ 20° PRESSURE ANGLE

■ 1/8 FACE



QUALITY CLASS

CATALOG NUMBER DESIGNATION:

A 1 P 2 - Y6 4

No. of Teeth

Bore Code

- A .125 Dia.
- B .1875 Dia.
- C .250 Dia.

MATERIAL: Gear - Acetal
Insert - Brass

Gears under 60 teeth have no webs.

Basic Catalog Number	No. of Teeth	P.D.	O.D.	C Hub Dia.
A 1P 2-Y64038	38	.594	.625	33/64
A 1P 2-Y64040	40	.625	.656	
A 1P 2-Y64042	42	.656	.688	
A 1P 2-Y64044	44	.688	.719	
A 1P 2-Y64046	46	.719	.750	
A 1P 2-Y64048	48	.750	.781	
A 1P 2-Y64050	50	.781	.813	5/8
A 1P 2-Y64055	55	.859	.891	
A 1P 2-Y64056	56	.875	.906	
A 1P 2-Y64060	60	.938	.969	
A 1P 2-Y64064	64	1.000	1.031	
A 1P 2-Y64072	72	1.125	1.156	
A 1P 2-Y64074	74	1.156	1.188	
A 1P 2-Y64075	75	1.172	1.203	
A 1P 2-Y64080	80	1.250	1.281	
A 1P 2-Y64084	84	1.313	1.344	
A 1P 2-Y64085	85	1.328	1.359	

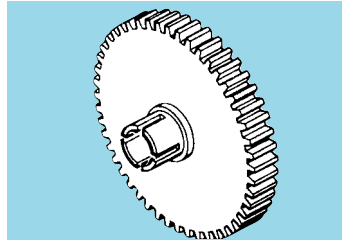
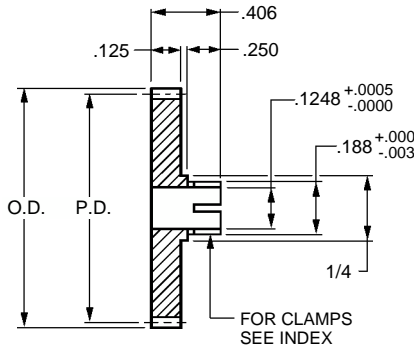
Basic Catalog Number	No. of Teeth	P.D.	O.D.	C Hub Dia.
A 1P 2-Y64088	88	1.375	1.406	5/8
A 1P 2-Y64090	90	1.406	1.438	
A 1P 2-Y64092	92	1.438	1.469	
A 1P 2-Y64095	95	1.484	1.516	3/4
A 1P 2-Y64096	96	1.500	1.531	
A 1P 2-Y64100	100	1.563	1.594	
A 1P 2-Y64110	110	1.719	1.750	
A 1P 2-Y64112	112	1.750	1.781	
A 1P 2-Y64120	120	1.875	1.906	
A 1P 2-Y64127	127	1.984	2.016	
A 1P 2-Y64128	128	2.000	2.031	
A 1P 2-Y64130	130	2.031	2.063	
A 1P 2-Y64144	144	2.250	2.281	
A 1P 2-Y64152	152	2.375	2.406	
A 1P 2-Y64160	160	2.500	2.531	
A 1P 2-Y64168	168	2.625	2.656	
A 1P 2-Y64174	174	2.719	2.750	

NOTE: Gears under 80 teeth have no webs.
 Gears with: .125 Bore Have #2-56 Set Screw And Spot Drill
 .1875 Bore Have #4-40 Set Screw And Spot Drill
 .250 Bore Have #6-32 Set Screw And Spot Drill



Clamp Type Spur Gears - 64 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/8 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1163Z-064S018	S1163Z-064A018	18	0.2813	0.313
S1163Z-064S021	S1163Z-064A021	21	0.3281	0.359
S1163Z-064S022	S1163Z-064A022	22	0.3438	0.375
S1163Z-064S024	S1163Z-064A024	24	0.3750	0.406
S1163Z-064S025	S1163Z-064A025	25	0.3906	0.422
S1163Z-064S028	S1163Z-064A028	28	0.4375	0.469
S1163Z-064S030	S1163Z-064A030	30	0.4688	0.500
S1163Z-064S032	S1163Z-064A032	32	0.5000	0.531
S1163Z-064S034	S1163Z-064A034	34	0.5313	0.563
S1163Z-064S036	S1163Z-064A036	36	0.5625	0.594
S1163Z-064S038	S1163Z-064A038	38	0.5938	0.625
S1163Z-064S040	S1163Z-064A040	40	0.6250	0.656
S1163Z-064S044	S1163Z-064A044	44	0.6875	0.719
S1163Z-064S046	S1163Z-064A046	46	0.7188	0.750
S1163Z-064S048	S1163Z-064A048	48	0.7500	0.781
S1163Z-064S050	S1163Z-064A050	50	0.7813	0.813
S1163Z-064S055	S1163Z-064A055	55	0.8594	0.891
S1163Z-064S056	S1163Z-064A056	56	0.8750	0.906
S1163Z-064S060	S1163Z-064A060	60	0.9375	0.969
S1163Z-064S064	S1163Z-064A064	64	1.0000	1.031
S1163Z-064S070	S1163Z-064A070	70	1.0938	1.125
S1163Z-064S072	S1163Z-064A072	72	1.1250	1.156
S1163Z-064S080	S1163Z-064A080	80	1.2500	1.281
S1163Z-064S084	S1163Z-064A084	84	1.3125	1.344
S1163Z-064S090	S1163Z-064A090	90	1.4063	1.438
S1163Z-064S096	S1163Z-064A096	96	1.5000	1.531
S1163Z-064S112	S1163Z-064A112	112	1.7500	1.781
S1163Z-064S120	S1163Z-064A120	120	1.8750	1.906
S1163Z-064S128	S1163Z-064A128	128	2.0000	2.031
S1163Z-064S136	S1163Z-064A136	136	2.1250	2.156

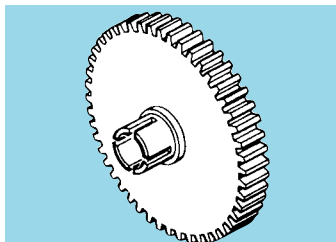
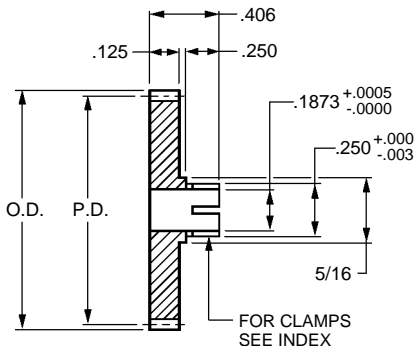
* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order : 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



Clamp Type Spur Gears - 64 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1164Z-064S022	S1164Z-064A022	22	0.3438	0.375
S1164Z-064S024	S1164Z-064A024	24	0.3750	0.406
S1164Z-064S025	S1164Z-064A025	25	0.3906	0.422
S1164Z-064S030	S1164Z-064A030	30	0.4688	0.500
S1164Z-064S032	S1164Z-064A032	32	0.5000	0.531
S1164Z-064S040	S1164Z-064A040	40	0.6250	0.656
S1164Z-064S042	S1164Z-064A042	42	0.6563	0.688
S1164Z-064S044	S1164Z-064A044	44	0.6875	0.719
S1164Z-064S048	S1164Z-064A048	48	0.7500	0.781
S1164Z-064S050	S1164Z-064A050	50	0.7813	0.813
S1164Z-064S052	S1164Z-064A052	52	0.8125	0.844
S1164Z-064S056	S1164Z-064A056	56	0.8750	0.906
S1164Z-064S060	S1164Z-064A060	60	0.9375	0.969
S1164Z-064S064	S1164Z-064A064	64	1.0000	1.031
S1164Z-064S072	S1164Z-064A072	72	1.1250	1.156
S1164Z-064S076	S1164Z-064A076	76	1.1875	1.219
S1164Z-064S080	S1164Z-064A080	80	1.2500	1.281
S1164Z-064S084	S1164Z-064A084	84	1.3125	1.344
S1164Z-064S090	S1164Z-064A090	90	1.4063	1.438
S1164Z-064S096	S1164Z-064A096	96	1.5000	1.531
S1164Z-064S100	S1164Z-064A100	100	1.5625	1.594
S1164Z-064S112	S1164Z-064A112	112	1.7500	1.781
S1164Z-064S120	S1164Z-064A120	120	1.8750	1.906
S1164Z-064S128	S1164Z-064A128	128	2.0000	2.031
S1164Z-064S130	S1164Z-064A130	130	2.0313	2.063
S1164Z-064S144	S1164Z-064A144	144	2.2500	2.281
S1164Z-064S160	S1164Z-064A160	160	2.5000	2.531
S1164Z-064S180	S1164Z-064A180	180	2.8125	2.844
S1164Z-064S224	S1164Z-064A224	224	3.5000	3.531
S1164Z-064S264	S1164Z-064A264	264	4.1250	4.156

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



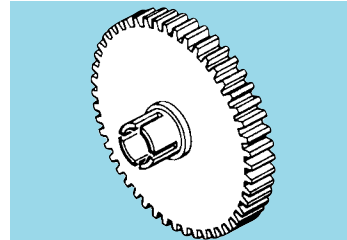
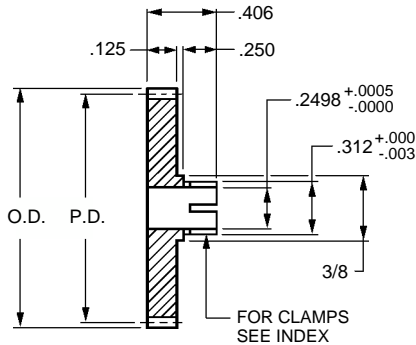
Clamp Type Spur Gears - 64 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1166Z-064S026	S1166Z-064A026	26	0.4063	0.438
S1166Z-064S030	S1166Z-064A030	30	0.4688	0.500
S1166Z-064S032	S1166Z-064A032	32	0.5000	0.531
S1166Z-064S036	S1166Z-064A036	36	0.5625	0.594
S1166Z-064S040	S1166Z-064A040	40	0.6250	0.656
S1166Z-064S046	S1166Z-064A046	46	0.7188	0.750
S1166Z-064S048	S1166Z-064A048	48	0.7500	0.781
S1166Z-064S050	S1166Z-064A050	50	0.7813	0.813
S1166Z-064S060	S1166Z-064A060	60	0.9375	0.969
S1166Z-064S064	S1166Z-064A064	64	1.0000	1.031
S1166Z-064S070	S1166Z-064A070	70	1.0938	1.125
S1166Z-064S072	S1166Z-064A072	72	1.1250	1.156
S1166Z-064S080	S1166Z-064A080	80	1.2500	1.281
S1166Z-064S084	S1166Z-064A084	84	1.3125	1.344
S1166Z-064S088	S1166Z-064A088	88	1.3750	1.406
S1166Z-064S090	S1166Z-064A090	90	1.4063	1.438
S1166Z-064S096	S1166Z-064A096	96	1.5000	1.531
S1166Z-064S112	S1166Z-064A112	112	1.7500	1.781
S1166Z-064S120	S1166Z-064A120	120	1.8750	1.906
S1166Z-064S128	S1166Z-064A128	128	2.0000	2.031
S1166Z-064S130	S1166Z-064A130	130	2.0313	2.063
S1166Z-064S140	S1166Z-064A140	140	2.1875	2.219
S1166Z-064S144	S1166Z-064A144	144	2.2500	2.281
S1166Z-064S160	S1166Z-064A160	160	2.5000	2.531
S1166Z-064S176	S1166Z-064A176	176	2.7500	2.781
S1166Z-064S184	S1166Z-064A184	184	2.8750	2.906
S1166Z-064S192	S1166Z-064A192	192	3.0000	3.031
S1166Z-064S224	S1166Z-064A224	224	3.5000	3.531
S1166Z-064S256	S1166Z-064A256	256	4.0000	4.031
S1166Z-064S264	S1166Z-064A264	264	4.1250	4.156

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

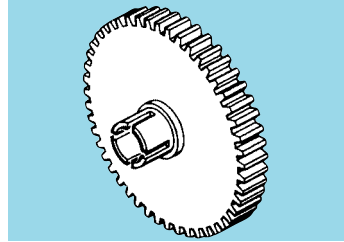
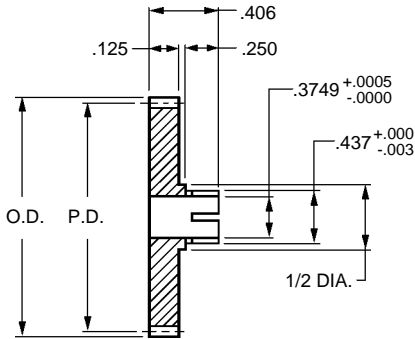
S INCH Clamp Type Differential End Gears - 64 Pitch

■ AGMA Q12

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum Anodized Before Hobbing			
S1168Z-064S040C	S1168Z-064A040C	40	.6250	.6562
S1168Z-064S048C	S1168Z-064A048C	48	.7500	.7812
S1168Z-064S050C	S1168Z-064A050C	50	.7812	.8125
S1168Z-064S060C	S1168Z-064A060C	60	.9375	.9687
S1168Z-064S064C	S1168Z-064A064C	64	1.0000	1.0312
S1168Z-064S072C	S1168Z-064A072C	72	1.1250	1.1562
S1168Z-064S080C	S1168Z-064A080C	80	1.2500	1.2812
S1168Z-064S090C	S1168Z-064A090C	90	1.4062	1.4375
S1168Z-064S096C	S1168Z-064A096C	96	1.5000	1.5312
S1168Z-064S100C	S1168Z-064A100C	100	1.5625	1.5937

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and / or material, passivation for stainless steel.



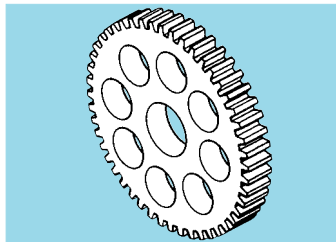
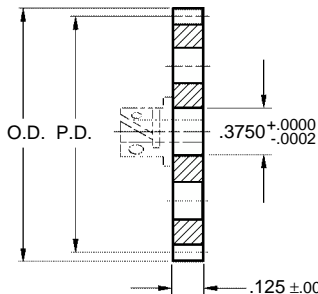
Hubless Spur Gears - 64 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.

- All gears over 2-1/8" diameter supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-064S038	S1268Z-064A038	38	0.5938	0.625
S1268Z-064S040	S1268Z-064A040	40	0.6250	0.656
S1268Z-064S048	S1268Z-064A048	48	0.7500	0.781
S1268Z-064S050	S1268Z-064A050	50	0.7813	0.813
S1268Z-064S064	S1268Z-064A064	64	1.0000	1.031
S1268Z-064S072	S1268Z-064A072	72	1.1250	1.156
S1268Z-064S075	S1268Z-064A075	75	1.1719	1.203
S1268Z-064S080	S1268Z-064A080	80	1.2500	1.281
S1268Z-064S084	S1268Z-064A084	84	1.3125	1.344
S1268Z-064S090	S1268Z-064A090	90	1.4063	1.438
S1268Z-064S092	S1268Z-064A092	92	1.4375	1.469
S1268Z-064S096	S1268Z-064A096	96	1.5000	1.531
S1268Z-064S100	S1268Z-064A100	100	1.5625	1.594
S1268Z-064S105	S1268Z-064A105	105	1.6406	1.672
S1268Z-064S110	S1268Z-064A110	110	1.7188	1.750
S1268Z-064S120	S1268Z-064A120	120	1.8750	1.906
S1268Z-064S128	S1268Z-064A128	128	2.0000	2.031
S1268Z-064S130	S1268Z-064A130	130	2.0313	2.063
S1268Z-064S140	S1268Z-064A140	140	2.1875	2.219
S1268Z-064S144	S1268Z-064A144	144	2.2500	2.281
S1268Z-064S150	S1268Z-064A150	150	2.3483	2.375
S1268Z-064S160	S1268Z-064A160	160	2.5000	2.531
S1268Z-064S168	S1268Z-064A168	168	2.6250	2.656
S1268Z-064S170	S1268Z-064A170	170	2.6563	2.688
S1268Z-064S180	S1268Z-064A180	180	2.8125	2.844
S1268Z-064S184	S1268Z-064A184	184	2.8750	2.906
S1268Z-064S192	S1268Z-064A192	192	3.0000	3.031
S1268Z-064S224	S1268Z-064A224	224	3.5000	3.531
S1268Z-064S256	S1268Z-064A256	256	4.0000	4.031
S1268Z-064S264	S1268Z-064A264	264	4.1250	4.156

*T4 or T351 Aluminum Alloy, anodized before cutting.

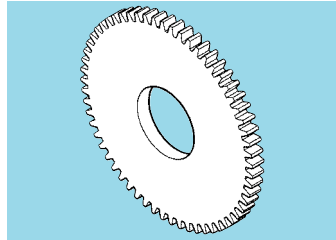
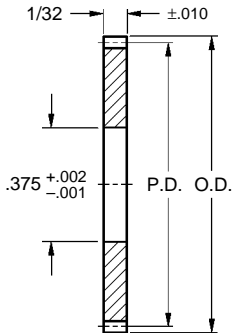
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

**INCH****Stamped Hubless Spur Gears - 64 Pitch**

■ 20° PRESSURE ANGLE

■ 1/32 FACE

■ 3/8 BORE



The face of a stamped gear tooth is radiused on one side from the outside diameter to slightly below the pitch diameter. In cases where the material thickness approaches or exceeds the tooth width at the pitch line, the face width of the tooth at the outside diameter will be approximately 2/3 material thickness, and 80% to 90% of material thickness at the pitch diameter.

● **64 PITCH** **MATERIAL:** 5052-H32 Aluminum Alloy

* Catalog Number	No. of Teeth	P.D.	O.D.
A 1S 1-Y64058	58	.906	.938
A 1S 1-Y64063	63	.984	1.016
A 1S 1-Y64064	64	1.000	1.031
A 1S 1-Y64069	69	1.078	1.109
A 1S 1-Y64072	72	1.125	1.156
A 1S 1-Y64096	96	1.500	1.531

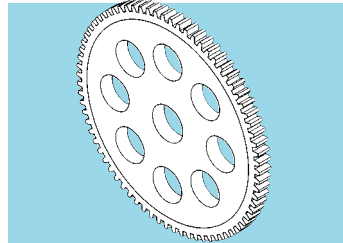
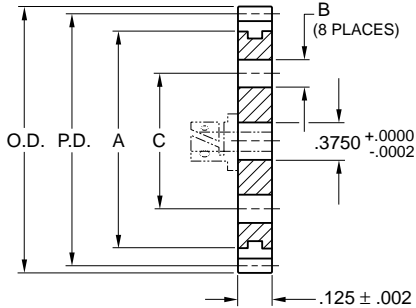
* To be discontinued when present stock is depleted.

Please see "Gear Hubs" page for available hub sizes.



Aluminum-Acetal Gears - 64 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/8 BORE



MATERIAL: Core – Aluminum 2024-T3, Chemical Filmed
Rim – Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	A Dia.	B Dia.	C Dia.
S1268Z-064M064	64	1.0000	1.031	5/8	—	—
S1268Z-064M072	72	1.1250	1.156	7/8		
S1268Z-064M075	75	1.1719	1.203			
S1268Z-064M080	80	1.2500	1.281			
S1268Z-064M085	85	1.3281	1.359			
S1268Z-064M090	90	1.4063	1.438			
S1268Z-064M095	95	1.4844	1.516	1-1/8		
S1268Z-064M096	96	1.5000	1.531			
S1268Z-064M100	100	1.5625	1.594			
S1268Z-064M110	110	1.7188	1.750	1-3/8		
S1268Z-064M120	120	1.8750	1.906	1-5/8	7/32	13/16
S1268Z-064M130	130	2.0313	2.063			
S1268Z-064M140	140	2.1875	2.219			
S1268Z-064M150	150	2.3438	2.375	2-1/8	3/8	1-3/8
S1268Z-064M160	160	2.5000	2.531			
S1268Z-064M170	170	2.6563	2.688	2-3/8		1-3/8
S1268Z-064M180	180	2.8125	2.844			
S1268Z-064M192	192	3.0000	3.031	2-5/8		1-3/4

See Index for hubs. Assembled upon request at a nominal charge.
Available on special order: 14-1/2° P.A., teeth not listed, different bore and/or materials.



Differential End Gears - 64 Pitch

■ AGMA Q12

■ 20° PRESSURE ANGLE

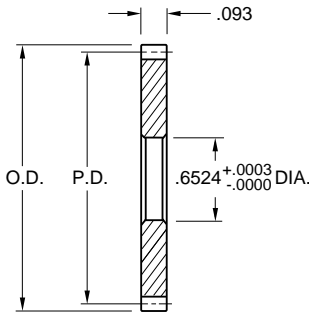


Fig. 1

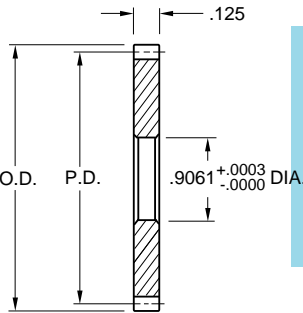
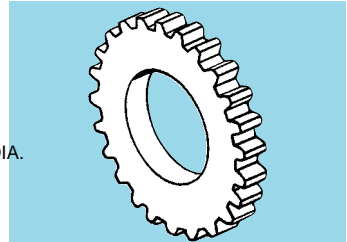


Fig. 2



Catalog Number		Number of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum Anodized Before Hobbing			
● Fig. 1 ■ 3/32 FACE ■ .6524 BORE				
S1249Z-064S072C	S1249Z-064A072C	72	1.1250	1.1563
S1249Z-064S080C	S1249Z-064A080C	80	1.2500	1.2813
S1249Z-064S082C	S1249Z-064A082C	82	1.2813	1.3125
S1249Z-064S090C	S1249Z-064A090C	90	1.4063	1.4375
S1249Z-064S096C	S1249Z-064A096C	96	1.5000	1.5313
S1249Z-064S100C	S1249Z-064A100C	100	1.5625	1.5938
S1249Z-064S110C	S1249Z-064A110C	110	1.7188	1.7500
S1249Z-064S120C	S1249Z-064A120C	120	1.8750	1.9063
S1249Z-064S130C	S1249Z-064A130C	130	2.0313	2.0625
● Fig. 2 ■ 1/8 FACE ■ .9061 BORE				
S1269Z-064S080C	S1269Z-064A080C	80	1.2500	1.2813
S1269Z-064S082C	S1269Z-064A082C	82	1.2813	1.3125
S1269Z-064S090C	S1269Z-064A090C	90	1.4063	1.4375
S1269Z-064S096C	S1269Z-064A096C	96	1.5000	1.5313
S1269Z-064S100C	S1269Z-064A100C	100	1.5625	1.5938
S1269Z-064S110C	S1269Z-064A110C	110	1.7188	1.7500
S1269Z-064S120C	S1269Z-064A120C	120	1.8750	1.9063
S1269Z-064S130C	S1269Z-064A130C	130	2.0313	2.0625

NOTE: The end gears shown on this page will be assembled to differentials which are ordered at the same time, free of charge.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and / or material, passivation for stainless steel.



Fairloc® Hub Gears - 48 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .197 & .250 FACE WIDTH

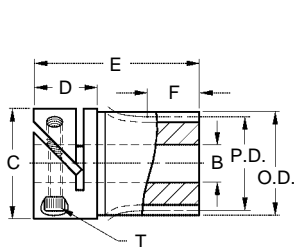


Fig. 1

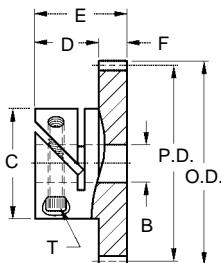
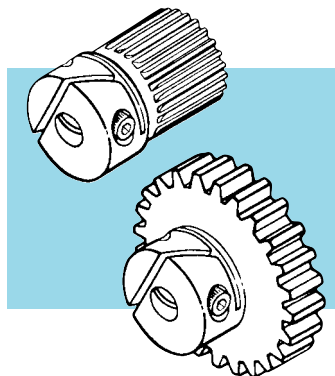


Fig. 2



NOTE: Socket Head Cap Screw Supplied.

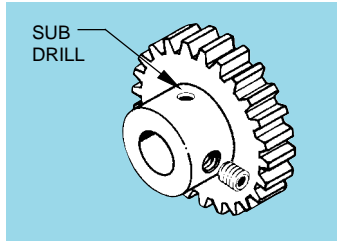
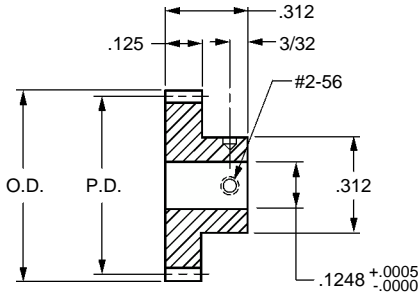


MATERIAL: 303 Stainless Steel

Catalog Number	Fig. No.	No. of Teeth	P.D.	O.D.	B Bore +.0005 -.0000	F	E	C	D	T	Hub Clear. Rad.							
S1VS48-016F1608	1	16	0.3333	0.375	.1248	.250	.866	.551	.315	#2-56	.327							
S1VS48-018F1608		18	0.3750	0.417														
S1VS48-020F1608		20	0.4167	0.458														
S1VS48-024F1612		24	0.5000	0.542	.1873													
S1VS48-025F1612		25	0.5208	0.563														
S1VS48-028F1612		28	0.5833	0.625														
S1VS48-030F1316	2	30	0.6250	0.667	.2498	.197	.591	.669	.394	#2-56	.445							
S1VS48-032F1316		32	0.6667	0.708														
S1VS48-036F1316		36	0.7500	0.792														
S1VS48-040F1316		40	0.8333	0.875														
S1VS48-045F1316		45	0.9375	0.979														
S1VS48-048F1316		48	1.0000	1.042														
S1VS48-050F1316		50	1.0417	1.083								.3747	.197	.750	.945	.551	#6-32	.551
S1VS48-054F1316		54	1.1250	1.167														
S1VS48-056F1316		56	1.1667	1.208														
S1VS48-060F1316		60	1.2500	1.292														
S1VS48-064F1324		64	1.3333	1.375														
S1VS48-070F1324		70	1.4583	1.500														
S1VS48-072F1324	72	1.5000	1.542															
S1VS48-075F1324	75	1.5625	1.604	.3747	.197	.750	.945	.551	#6-32	.551								
S1VS48-080F1324	80	1.6667	1.708															
S1VS48-090F1324	90	1.8750	1.917															
S1VS48-096F1324	96	2.0000	2.042															
S1VS48-100F1324	100	2.0833	2.125															
S1VS48-112F1324	112	2.3333	2.375															
S1VS48-120F1324	120	2.5000	2.542															

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 1/8 BORE

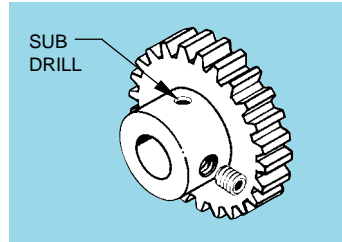
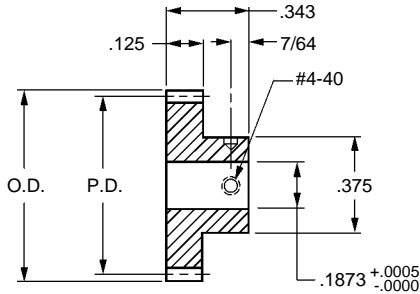


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1063Z-048S014	S1063Z-048A014	14	0.2917	0.333
S1063Z-048S018	S1063Z-048A018	18	0.3750	0.417
S1063Z-048S020	S1063Z-048A020	20	0.4167	0.458
S1063Z-048S022	S1063Z-048A022	22	0.4583	0.500
S1063Z-048S024	S1063Z-048A024	24	0.5000	0.542
S1063Z-048S028	S1063Z-048A028	28	0.5833	0.625
S1063Z-048S030	S1063Z-048A030	30	0.6250	0.667
S1063Z-048S032	S1063Z-048A032	32	0.6667	0.708
S1063Z-048S034	S1063Z-048A034	34	0.7083	0.750
S1063Z-048S036	S1063Z-048A036	36	0.7500	0.792
S1063Z-048S038	S1063Z-048A038	38	0.7917	0.833
S1063Z-048S040	S1063Z-048A040	40	0.8333	0.875
S1063Z-048S042	S1063Z-048A042	42	0.8750	0.917
S1063Z-048S046	S1063Z-048A046	46	0.9583	1.000
S1063Z-048S048	S1063Z-048A048	48	1.0000	1.042
S1063Z-048S050	S1063Z-048A050	50	1.0417	1.083
S1063Z-048S056	S1063Z-048A056	56	1.1667	1.208
S1063Z-048S060	S1063Z-048A060	60	1.2500	1.292
S1063Z-048S064	S1063Z-048A064	64	1.3333	1.375
S1063Z-048S065	S1063Z-048A065	65	1.3542	1.396
S1063Z-048S070	S1063Z-048A070	70	1.4583	1.500
S1063Z-048S072	S1063Z-048A072	72	1.5000	1.542
S1063Z-048S080	S1063Z-048A080	80	1.6667	1.708
S1063Z-048S084	S1063Z-048A084	84	1.7500	1.792
S1063Z-048S085	S1063Z-048A085	85	1.7708	1.813
S1063Z-048S090	S1063Z-048A090	90	1.8750	1.917
S1063Z-048S096	S1063Z-048A096	96	2.0000	2.042
S1063Z-048S100	S1063Z-048A100	100	2.0833	2.125
S1063Z-048S102	S1063Z-048A102	102	2.1250	2.167
S1063Z-048S105	S1063Z-048A105	105	2.1875	2.229

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/16 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1064Z-048S020	S1064Z-048A020	20	0.4167	0.458
S1064Z-048S021	S1064Z-048A021	21	0.4375	0.479
S1064Z-048S022	S1064Z-048A022	22	0.4583	0.500
S1064Z-048S023	S1064Z-048A023	23	0.4792	0.521
S1064Z-048S024	S1064Z-048A024	24	0.5000	0.542
S1064Z-048S025	S1064Z-048A025	25	0.5208	0.563
S1064Z-048S026	S1064Z-048A026	26	0.5417	0.583
S1064Z-048S028	S1064Z-048A028	28	0.5833	0.625
S1064Z-048S030	S1064Z-048A030	30	0.6250	0.667
S1064Z-048S032	S1064Z-048A032	32	0.6667	0.708
S1064Z-048S034	S1064Z-048A034	34	0.7083	0.750
S1064Z-048S036	S1064Z-048A036	36	0.7500	0.792
S1064Z-048S040	S1064Z-048A040	40	0.8333	0.875
S1064Z-048S042	S1064Z-048A042	42	0.8750	0.917
S1064Z-048S044	S1064Z-048A044	44	0.9167	0.958
S1064Z-048S046	S1064Z-048A046	46	0.9583	1.000
S1064Z-048S048	S1064Z-048A048	48	1.0000	1.042
S1064Z-048S050	S1064Z-048A050	50	1.0417	1.083
S1064Z-048S060	S1064Z-048A060	60	1.2500	1.292
S1064Z-048S064	S1064Z-048A064	64	1.3333	1.375
S1064Z-048S070	S1064Z-048A070	70	1.4583	1.500
S1064Z-048S072	S1064Z-048A072	72	1.5000	1.542
S1064Z-048S080	S1064Z-048A080	80	1.6667	1.708
S1064Z-048S084	S1064Z-048A084	84	1.7500	1.792
S1064Z-048S090	S1064Z-048A090	90	1.8750	1.917
S1064Z-048S096	S1064Z-048A096	96	2.0000	2.042
S1064Z-048S100	S1064Z-048A100	100	2.0833	2.125
S1064Z-048S105	S1064Z-048A105	105	2.1875	2.229
S1064Z-048S110	S1064Z-048A110	110	2.2917	2.333
S1064Z-048S120	S1064Z-048A120	120	2.5000	2.542

* T4 or T351 Aluminum Alloy, anodized before cutting.

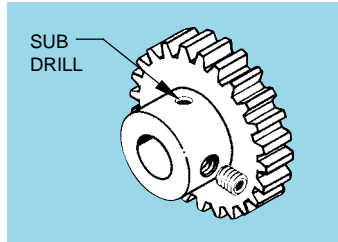
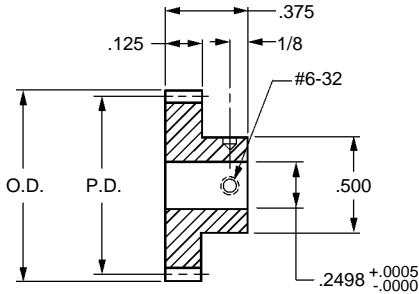
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-048S020	S1066Z-048A020	20	0.4167	0.458
S1066Z-048S023	S1066Z-048A023	23	0.4792	0.521
S1066Z-048S024	S1066Z-048A024	24	0.5000	0.542
S1066Z-048S025	S1066Z-048A025	25	0.5208	0.563
S1066Z-048S026	S1066Z-048A026	26	0.5417	0.583
S1066Z-048S027	S1066Z-048A027	27	0.5625	0.604
S1066Z-048S028	S1066Z-048A028	28	0.5833	0.625
S1066Z-048S029	S1066Z-048A029	29	0.6042	0.646
S1066Z-048S030	S1066Z-048A030	30	0.6250	0.667
S1066Z-048S032	S1066Z-048A032	32	0.6667	0.708
S1066Z-048S034	S1066Z-048A034	34	0.7083	0.750
S1066Z-048S035	S1066Z-048A035	35	0.7292	0.771
S1066Z-048S036	S1066Z-048A036	36	0.7500	0.792
S1066Z-048S038	S1066Z-048A038	38	0.7917	0.833
S1066Z-048S040	S1066Z-048A040	40	0.8333	0.875
S1066Z-048S042	S1066Z-048A042	42	0.8750	0.917
S1066Z-048S044	S1066Z-048A044	44	0.9167	0.958
S1066Z-048S045	S1066Z-048A045	45	0.9375	0.979
S1066Z-048S046	S1066Z-048A046	46	0.9583	1.000
S1066Z-048S048	S1066Z-048A048	48	1.0000	1.042
S1066Z-048S050	S1066Z-048A050	50	1.0417	1.083
S1066Z-048S054	S1066Z-048A054	54	1.1250	1.167
S1066Z-048S055	S1066Z-048A055	55	1.1458	1.188
S1066Z-048S056	S1066Z-048A056	56	1.1667	1.208
S1066Z-048S060	S1066Z-048A060	60	1.2500	1.292
S1066Z-048S064	S1066Z-048A064	64	1.3333	1.375
S1066Z-048S065	S1066Z-048A065	65	1.3542	1.396
S1066Z-048S070	S1066Z-048A070	70	1.4583	1.500
S1066Z-048S072	S1066Z-048A072	72	1.5000	1.542
S1066Z-048S075	S1066Z-048A075	75	1.5625	1.604

* T4 or T351 Aluminum Alloy, anodized before cutting.

Continued on the next page

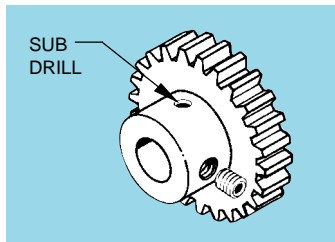
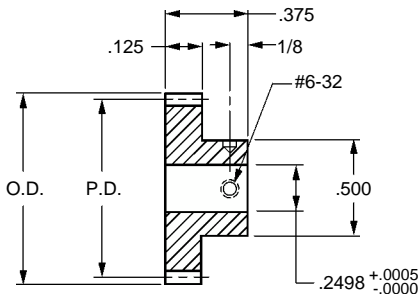
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE

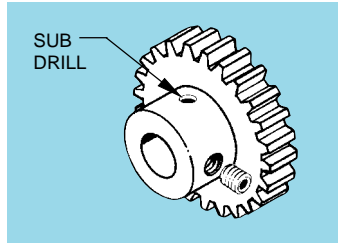
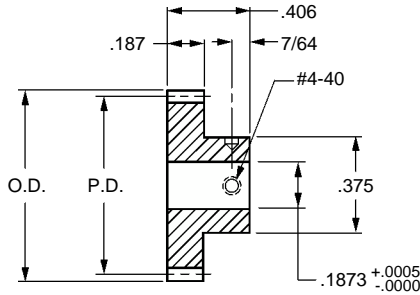


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-048S078	S1066Z-048A078	78	1.6250	1.667
S1066Z-048S080	S1066Z-048A080	80	1.6667	1.708
S1066Z-048S084	S1066Z-048A084	84	1.7500	1.792
S1066Z-048S085	S1066Z-048A085	85	1.7708	1.813
S1066Z-048S090	S1066Z-048A090	90	1.8750	1.917
S1066Z-048S092	S1066Z-048A092	92	1.9167	1.958
S1066Z-048S095	S1066Z-048A095	95	1.9792	2.021
S1066Z-048S096	S1066Z-048A096	96	2.0000	2.042
S1066Z-048S100	S1066Z-048A100	100	2.0833	2.125
S1066Z-048S105	S1066Z-048A105	105	2.1875	2.229
S1066Z-048S108	S1066Z-048A108	108	2.2500	2.292
S1066Z-048S110	S1066Z-048A110	110	2.2917	2.333
S1066Z-048S115	S1066Z-048A115	115	2.3958	2.438
S1066Z-048S120	S1066Z-048A120	120	2.5000	2.542
S1066Z-048S126	S1066Z-048A126	126	2.6250	2.667
S1066Z-048S130	S1066Z-048A130	130	2.7083	2.750
S1066Z-048S132	S1066Z-048A132	132	2.7500	2.792
S1066Z-048S140	S1066Z-048A140	140	2.9167	2.958
S1066Z-048S144	S1066Z-048A144	144	3.0000	3.042
S1066Z-048S145	S1066Z-048A145	145	3.0208	3.063
S1066Z-048S150	S1066Z-048A150	150	3.1250	3.167
S1066Z-048S156	S1066Z-048A156	156	3.2500	3.292
S1066Z-048S160	S1066Z-048A160	160	3.3333	3.375
S1066Z-048S168	S1066Z-048A168	168	3.5000	3.542
S1066Z-048S170	S1066Z-048A170	170	3.5417	3.583
S1066Z-048S174	S1066Z-048A174	174	3.6250	3.667
S1066Z-048S180	S1066Z-048A180	180	3.7500	3.792
S1066Z-048S185	S1066Z-048A185	185	3.8542	3.896
S1066Z-048S192	S1066Z-048A192	192	4.0000	4.042
S1066Z-048S198	S1066Z-048A198	198	4.1250	4.167

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16 BORE

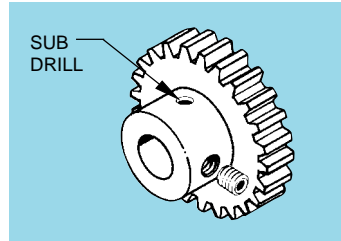
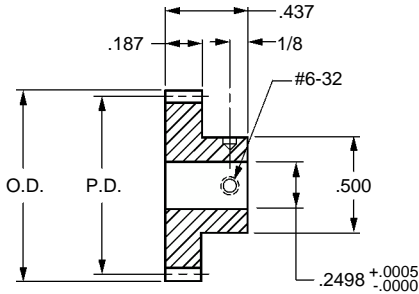


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1084Z-048S017	S1084Z-048A017	17	0.3542	0.396
S1084Z-048S018	S1084Z-048A018	18	0.3750	0.417
S1084Z-048S020	S1084Z-048A020	20	0.4167	0.458
S1084Z-048S021	S1084Z-048A021	21	0.4375	0.479
S1084Z-048S022	S1084Z-048A022	22	0.4583	0.500
S1084Z-048S024	S1084Z-048A024	24	0.5000	0.542
S1084Z-048S025	S1084Z-048A025	25	0.5208	0.563
S1084Z-048S026	S1084Z-048A026	26	0.5417	0.583
S1084Z-048S028	S1084Z-048A028	28	0.5833	0.625
S1084Z-048S030	S1084Z-048A030	30	0.6250	0.667
S1084Z-048S032	S1084Z-048A032	32	0.6667	0.708
S1084Z-048S036	S1084Z-048A036	36	0.7500	0.792
S1084Z-048S040	S1084Z-048A040	40	0.8333	0.875
S1084Z-048S048	S1084Z-048A048	48	1.0000	1.042
S1084Z-048S050	S1084Z-048A050	50	1.0417	1.083
S1084Z-048S056	S1084Z-048A056	56	1.1667	1.208
S1084Z-048S060	S1084Z-048A060	60	1.2500	1.292
S1084Z-048S064	S1084Z-048A064	64	1.3333	1.375
S1084Z-048S065	S1084Z-048A065	65	1.3542	1.396
S1084Z-048S072	S1084Z-048A072	72	1.5000	1.542
S1084Z-048S084	S1084Z-048A084	84	1.7500	1.792
S1084Z-048S090	S1084Z-048A090	90	1.8750	1.917
S1084Z-048S092	S1084Z-048A092	92	1.9167	1.958
S1084Z-048S096	S1084Z-048A096	96	2.0000	2.042
S1084Z-048S100	S1084Z-048A100	100	2.0833	2.125
S1084Z-048S120	S1084Z-048A120	120	2.5000	2.542
S1084Z-048S144	S1084Z-048A144	144	3.0000	3.042
S1084Z-048S156	S1084Z-048A156	156	3.2500	3.292
S1084Z-048S180	S1084Z-048A180	180	3.7500	3.792
S1084Z-048S198	S1084Z-048A198	198	4.1250	4.167

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE



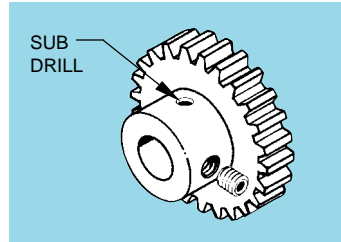
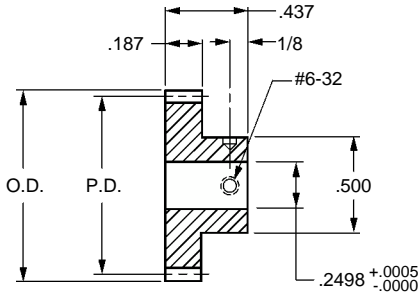
Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1086Z-048S020	S1086Z-048A020	20	0.4167	0.458
S1086Z-048S021	S1086Z-048A021	21	0.4375	0.479
S1086Z-048S022	S1086Z-048A022	22	0.4583	0.500
S1086Z-048S023	S1086Z-048A023	23	0.4792	0.521
S1086Z-048S024	S1086Z-048A024	24	0.5000	0.542
S1086Z-048S025	S1086Z-048A025	25	0.5208	0.563
S1086Z-048S026	S1086Z-048A026	26	0.5417	0.583
S1086Z-048S027	S1086Z-048A027	27	0.5625	0.604
S1086Z-048S028	S1086Z-048A028	28	0.5833	0.625
S1086Z-048S029	S1086Z-048A029	29	0.6042	0.646
S1086Z-048S030	S1086Z-048A030	30	0.6250	0.667
S1086Z-048S031	S1086Z-048A031	31	0.6458	0.688
S1086Z-048S032	S1086Z-048A032	32	0.6667	0.708
S1086Z-048S033	S1086Z-048A033	33	0.6875	0.729
S1086Z-048S034	S1086Z-048A034	34	0.7083	0.750
S1086Z-048S035	S1086Z-048A035	35	0.7292	0.771
S1086Z-048S036	S1086Z-048A036	36	0.7500	0.792
S1086Z-048S038	S1086Z-048A038	38	0.7917	0.833
S1086Z-048S040	S1086Z-048A040	40	0.8333	0.875
S1086Z-048S042	S1086Z-048A042	42	0.8750	0.917
S1086Z-048S044	S1086Z-048A044	44	0.9167	0.958
S1086Z-048S045	S1086Z-048A045	45	0.9375	0.979
S1086Z-048S046	S1086Z-048A046	46	0.9583	1.000
S1086Z-048S048	S1086Z-048A048	48	1.0000	1.042
S1086Z-048S050	S1086Z-048A050	50	1.0417	1.083
S1086Z-048S052	S1086Z-048A052	52	1.0833	1.125
S1086Z-048S054	S1086Z-048A054	54	1.1250	1.167
S1086Z-048S055	S1086Z-048A055	55	1.1458	1.188
S1086Z-048S056	S1086Z-048A056	56	1.1667	1.208
S1086Z-048S057	S1086Z-048A057	57	1.1875	1.229

* T4 or T351 Aluminum Alloy, anodized before cutting.

Continued on the next page

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1086Z-048S058	S1086Z-048A058	58	1.2083	1.250
S1086Z-048S060	S1086Z-048A060	60	1.2500	1.292
S1086Z-048S062	S1086Z-048A062	62	1.2917	1.333
S1086Z-048S064	S1086Z-048A064	64	1.3333	1.375
S1086Z-048S065	S1086Z-048A065	65	1.3542	1.396
S1086Z-048S068	S1086Z-048A068	68	1.4167	1.458
S1086Z-048S070	S1086Z-048A070	70	1.4583	1.500
S1086Z-048S072	S1086Z-048A072	72	1.5000	1.542
S1086Z-048S075	S1086Z-048A075	75	1.5625	1.604
S1086Z-048S080	S1086Z-048A080	80	1.6667	1.708
S1086Z-048S084	S1086Z-048A084	84	1.7500	1.792
S1086Z-048S085	S1086Z-048A085	85	1.7708	1.813
S1086Z-048S090	S1086Z-048A090	90	1.8750	1.917
S1086Z-048S095	S1086Z-048A095	95	1.9792	2.021
S1086Z-048S096	S1086Z-048A096	96	2.0000	2.042
S1086Z-048S100	S1086Z-048A100	100	2.0833	2.125
S1086Z-048S105	S1086Z-048A105	105	2.1875	2.229
S1086Z-048S108	S1086Z-048A108	108	2.2500	2.292
S1086Z-048S110	S1086Z-048A110	110	2.2917	2.333
S1086Z-048S120	S1086Z-048A120	120	2.5000	2.542
S1086Z-048S128	S1086Z-048A128	128	2.6667	2.708
S1086Z-048S130	S1086Z-048A130	130	2.7083	2.750
S1086Z-048S140	S1086Z-048A140	140	2.9167	2.958
S1086Z-048S150	S1086Z-048A150	150	3.1250	3.167
S1086Z-048S160	S1086Z-048A160	160	3.3333	3.375
S1086Z-048S168	S1086Z-048A168	168	3.5000	3.542
S1086Z-048S170	S1086Z-048A170	170	3.5417	3.583
S1086Z-048S180	S1086Z-048A180	180	3.7500	3.792
S1086Z-048S192	S1086Z-048A192	192	4.0000	4.042
S1086Z-048S198	S1086Z-048A198	198	4.1250	4.167

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



Fairloc® Hub Acetal Spur Gears - 48 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

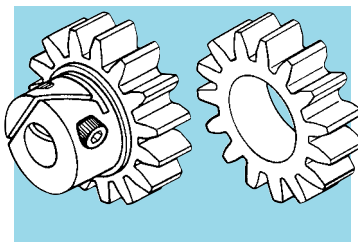
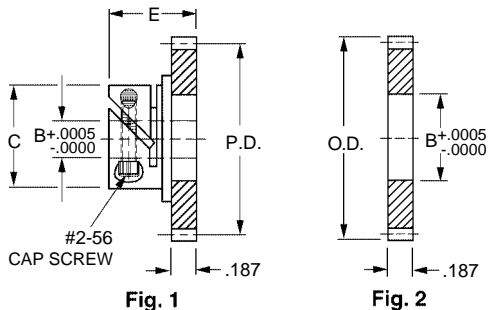


Fig. 1	Bore Ref.	C	E
	.1873	.438	.453
	.2498	.530	.483

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1V84Z-048DS028	S1V86Z-048DS028	S1288Z-048D028	28	.5833	.625
S1V84Z-048DS029	S1V86Z-048DS029	S1288Z-048D029	29	.6042	.646
S1V84Z-048DS030	S1V86Z-048DS030	S1288Z-048D030	30	.6250	.667
S1V84Z-048DS032	S1V86Z-048DS032	S1288Z-048D032	32	.6667	.708
S1V84Z-048DS034	S1V86Z-048DS034	S1288Z-048D034	34	.7083	.750
S1V84Z-048DS036	S1V86Z-048DS036	S1288Z-048D036	36	.7500	.792
S1V84Z-048DS038	S1V86Z-048DS038	S1288Z-048D038	38	.7917	.833
S1V84Z-048DS040	S1V86Z-048DS040	S1288Z-048D040	40	.8333	.875
S1V84Z-048DS042	S1V86Z-048DS042	S1288Z-048D042	42	.8750	.917
S1V84Z-048DS044	S1V86Z-048DS044	S1288Z-048D044	44	.9167	.958
S1V84Z-048DS046	S1V86Z-048DS046	S1288Z-048D046	46	.9583	1.000
S1V84Z-048DS048	S1V86Z-048DS048	S1288Z-048D048	48	1.0000	1.042
S1V84Z-048DS050	S1V86Z-048DS050	S1288Z-048D050	50	1.0417	1.083
S1V84Z-048DS055	S1V86Z-048DS055	S1288Z-048D055	55	1.1458	1.188
S1V84Z-048DS056	S1V86Z-048DS056	S1288Z-048D056	56	1.1667	1.208
S1V84Z-048DS060	S1V86Z-048DS060	S1288Z-048D060	60	1.2500	1.292
S1V84Z-048DS064	S1V86Z-048DS064	S1288Z-048D064	64	1.3333	1.375
S1V84Z-048DS068	S1V86Z-048DS068	S1288Z-048D068	68	1.4167	1.458
S1V84Z-048DS072	S1V86Z-048DS072	S1288Z-048D072	72	1.5000	1.542
S1V84Z-048DS075	S1V86Z-048DS075	S1288Z-048D075	75	1.5625	1.604
S1V84Z-048DS080	S1V86Z-048DS080	S1288Z-048D080	80	1.6667	1.708
S1V84Z-048DS084	S1V86Z-048DS084	S1288Z-048D084	84	1.7500	1.792
S1V84Z-048DS090	S1V86Z-048DS090	S1288Z-048D090	90	1.8750	1.917
S1V84Z-048DS092	S1V86Z-048DS092	S1288Z-048D092	92	1.9167	1.958
S1V84Z-048DS096	S1V86Z-048DS096	S1288Z-048D096	96	2.0000	2.042
S1V84Z-048DS100	S1V86Z-048DS100	S1288Z-048D100	100	2.0833	2.125
S1V84Z-048DS110	S1V86Z-048DS110	S1288Z-048D110	110	2.2917	2.333
S1V84Z-048DS120	S1V86Z-048DS120	S1288Z-048D120	120	2.5000	2.542
S1V84Z-048DS132	S1V86Z-048DS132	S1288Z-048D132	132	2.7500	2.792
S1V84Z-048DS138	S1V86Z-048DS138	S1288Z-048D138	138	2.8750	2.917
S1V84Z-048DS144	S1V86Z-048DS144	S1288Z-048D144	144	3.0000	3.042
S1V84Z-048DS156	S1V86Z-048DS156	S1288Z-048D156	156	3.2500	3.292
S1V84Z-048DS168	S1V86Z-048DS168	S1288Z-048D168	168	3.5000	3.542
S1V84Z-048DS180	S1V86Z-048DS180	S1288Z-048D180	180	3.7500	3.792
S1V84Z-048DS186	S1V86Z-048DS186	S1288Z-048D186	186	3.8750	3.917

Available on special order: 14-1/2" P.A., teeth not listed or different bore size.

This product is also available with pin type hubs. See page 1-80.



Acetal Spur Gears - 48 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

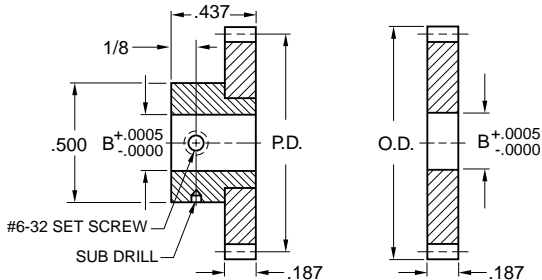
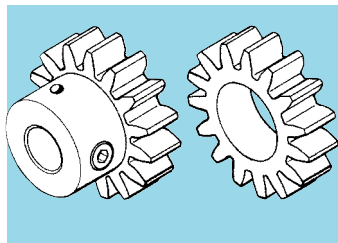


Fig. 1

Fig. 2



MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel



Catalog Number			No. of Teeth	P.D.	O.D.
PIN TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1084Z-048DS028	S1086Z-048DS028	S1288Z-048D028	28	.5833	.625
S1084Z-048DS029	S1086Z-048DS029	S1288Z-048D029	29	.6042	.646
S1084Z-048DS030	S1086Z-048DS030	S1288Z-048D030	30	.6250	.667
S1084Z-048DS032	S1086Z-048DS032	S1288Z-048D032	32	.6667	.708
S1084Z-048DS034	S1086Z-048DS034	S1288Z-048D034	34	.7083	.750
S1084Z-048DS036	S1086Z-048DS036	S1288Z-048D036	36	.7500	.792
S1084Z-048DS038	S1086Z-048DS038	S1288Z-048D038	38	.7917	.833
S1084Z-048DS040	S1086Z-048DS040	S1288Z-048D040	40	.8333	.875
S1084Z-048DS042	S1086Z-048DS042	S1288Z-048D042	42	.8750	.917
S1084Z-048DS044	S1086Z-048DS044	S1288Z-048D044	44	.9167	.958
S1084Z-048DS046	S1086Z-048DS046	S1288Z-048D046	46	.9583	1.000
S1084Z-048DS048	S1086Z-048DS048	S1288Z-048D048	48	1.0000	1.042
S1084Z-048DS050	S1086Z-048DS050	S1288Z-048D050	50	1.0417	1.083
S1084Z-048DS055	S1086Z-048DS055	S1288Z-048D055	55	1.1458	1.188
S1084Z-048DS056	S1086Z-048DS056	S1288Z-048D056	56	1.1667	1.208
S1084Z-048DS060	S1086Z-048DS060	S1288Z-048D060	60	1.2500	1.292
S1084Z-048DS064	S1086Z-048DS064	S1288Z-048D064	64	1.3333	1.375
S1084Z-048DS068	S1086Z-048DS068	S1288Z-048D068	68	1.4167	1.458
S1084Z-048DS072	S1086Z-048DS072	S1288Z-048D072	72	1.5000	1.542
S1084Z-048DS075	S1086Z-048DS075	S1288Z-048D075	75	1.5625	1.604
S1084Z-048DS080	S1086Z-048DS080	S1288Z-048D080	80	1.6667	1.708
S1084Z-048DS084	S1086Z-048DS084	S1288Z-048D084	84	1.7500	1.792
S1084Z-048DS090	S1086Z-048DS090	S1288Z-048D090	90	1.8750	1.917
S1084Z-048DS092	S1086Z-048DS092	S1288Z-048D092	92	1.9167	1.958
S1084Z-048DS096	S1086Z-048DS096	S1288Z-048D096	96	2.0000	2.042
S1084Z-048DS100	S1086Z-048DS100	S1288Z-048D100	100	2.0833	2.125
S1084Z-048DS110	S1086Z-048DS110	S1288Z-048D110	110	2.2917	2.333
S1084Z-048DS120	S1086Z-048DS120	S1288Z-048D120	120	2.5000	2.542
S1084Z-048DS132	S1086Z-048DS132	S1288Z-048D132	132	2.7500	2.792
S1084Z-048DS138	S1086Z-048DS138	S1288Z-048D138	138	2.8750	2.917
S1084Z-048DS144	S1086Z-048DS144	S1288Z-048D144	144	3.0000	3.042
S1084Z-048DS156	S1086Z-048DS156	S1288Z-048D156	156	3.2500	3.292
S1084Z-048DS168	S1086Z-048DS168	S1288Z-048D168	168	3.5000	3.542
S1084Z-048DS180	S1086Z-048DS180	S1288Z-048D180	180	3.7500	3.792
S1084Z-048DS186	S1086Z-048DS186	S1288Z-048D186	186	3.8750	3.917

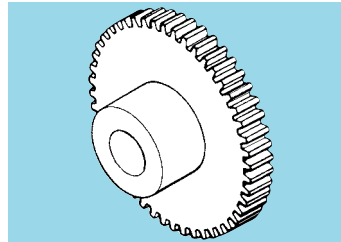
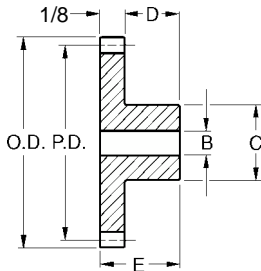
Available on special order: 14-1/2° P.A., teeth not listed, or different bore size.
This product is also available with Fairloc® hubs. See page 1-79.



Spur Gears - 48 Pitch

■ 14-1/2° PRESSURE ANGLE

■ 1/8 FACE WIDTH



MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	E Length	C Hub Dia.	D Hub Proj.	Type
A 1B 2-N48048	48	1.000	1.042	1/4	3/8	1/2	1/4	Plain
A 1B 2-N48052	52	1.083	1.125					
A 1B 2-N48054	54	1.125	1.167					
A 1B 2-N48056	56	1.167	1.208					
A 1B 2-N48060	60	1.250	1.292		3/8	1/2	1/4	Plain
A 1B 2-N48064	64	1.333	1.375					
A 1B 2-N48066	66	1.375	1.417					
A 1B 2-N48072	72	1.500	1.542					
A 1B 2-N48080	80	1.667	1.708					
A 1B 2-N48084	84	1.750	1.792					
A 1B 2-N48096	96	2.000	2.042	3/8	1/2	1/4	Plain	
A 1B 2-N48096A	96	2.000	2.042		5/8			
A 1B 2-N48100	100	2.083	2.125	5/16	7/16	5/8	5/16	Plain
A 1B 2-N48108	108	2.250	2.292					
A 1B 2-N48120	120	2.500	2.542					
A 1B 2-N48128	128	2.667	2.708					
A 1B 2-N48132	132	2.750	2.792		7/16	5/8	5/16	Plain Plain Spoked
A 1B 2-N48144	144	3.000	3.042					
* A 1B 2-N48156A	156	3.250	3.292					
A 1B 2-N48168	168	3.500	3.542					
* A 1B 2-N48180A	180	3.750	3.792	7/16	11/16	5/16	Spoked Plain Spoked	

* To be discontinued when present stock is depleted.

Gears other than standard stock sizes are available on special order.

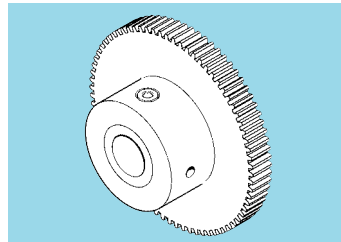
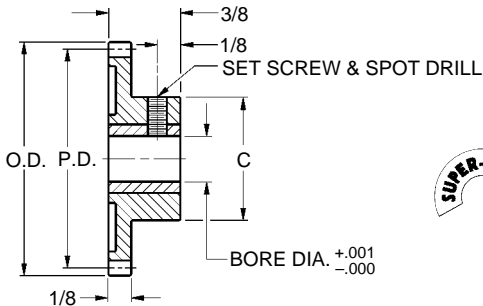


Nonmetallic Spur Gears - 48 Pitch

■ AGMA Q8

■ 20° PRESSURE ANGLE

■ 1/8 FACE



QUALITY CLASS

CATALOG NUMBER DESIGNATION:

A 1 P 2 - Y48



No. of Teeth

Bore Code

- A .125 Dia.
- B .1875 Dia.
- C .250 Dia.

MATERIAL: Gear - Acetal

Insert - Brass

Gears under 60 teeth have no webs.

Basic Catalog Number	No. of Teeth	P.D.	O.D.	C Hub Dia.
A 1P 2-Y48028	28	.583	.625	33/64
A 1P 2-Y48029	29	.604	.646	
A 1P 2-Y48030	30	.625	.667	
A 1P 2-Y48031	31	.646	.688	
A 1P 2-Y48032	32	.667	.708	
A 1P 2-Y48033	33	.688	.729	
A 1P 2-Y48034	34	.708	.750	
A 1P 2-Y48035	35	.729	.771	
A 1P 2-Y48036	36	.750	.792	
A 1P 2-Y48037	37	.771	.813	
A 1P 2-Y48038	38	.792	.833	
A 1P 2-Y48039	39	.813	.854	5/8
A 1P 2-Y48040	40	.833	.875	
A 1P 2-Y48042	42	.875	.917	
A 1P 2-Y48044	44	.917	.958	
A 1P 2-Y48045	45	.938	.979	
A 1P 2-Y48046	46	.958	1.000	
A 1P 2-Y48048	48	1.000	1.042	
A 1P 2-Y48050	50	1.042	1.083	
A 1P 2-Y48052	52	1.083	1.125	

Basic Catalog Number	No. of Teeth	P.D.	O.D.	C Hub Dia.
A 1P 2-Y48054	54	1.125	1.167	5/8
A 1P 2-Y48055	55	1.146	1.188	
A 1P 2-Y48056	56	1.167	1.208	
A 1P 2-Y48058	58	1.208	1.250	
A 1P 2-Y48060	60	1.250	1.292	
A 1P 2-Y48064	64	1.333	1.375	
A 1P 2-Y48066	66	1.375	1.417	
A 1P 2-Y48068	68	1.417	1.458	
A 1P 2-Y48072	72	1.500	1.542	
A 1P 2-Y48075	75	1.563	1.604	
A 1P 2-Y48080	80	1.667	1.708	
A 1P 2-Y48084	84	1.750	1.792	3/4
A 1P 2-Y48090	90	1.875	1.917	
A 1P 2-Y48092	92	1.917	1.958	
A 1P 2-Y48096	96	2.000	2.042	
A 1P 2-Y48100	100	2.083	2.125	
A 1P 2-Y48108	108	2.250	2.292	
A 1P 2-Y48110	110	2.292	2.333	
A 1P 2-Y48120	120	2.500	2.542	
A 1P 2-Y48130	130	2.708	2.750	

NOTE: Gears under 60 teeth have no webs.

Gears with: .125 Bore Have #2-56 Set Screw And Spot Drill

.1875 Bore Have #4-40 Set Screw And Spot Drill

.250 Bore Have #6-32 Set Screw And Spot Drill

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

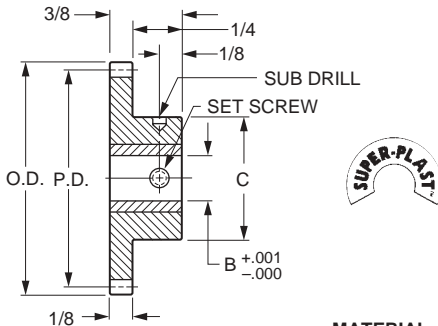
SDPSI

Molded Spur Gears - 48 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 20° PRESSURE ANGLE

■ 1/8 FACE



MATERIAL: Gear - Acetal
Insert - Brass

Catalog Number	No. of Teeth	P.D.	O.D. +.000 -.010	B Bore	C Hub Dia.	Set Screw	Type
A 1T 2-Y48018	18	.375	.417	1/8	5/16	#2-56	Plain
A 1T 2-Y48019	19	.396	.438				
A 1T 2-Y48020	20	.417	.458				
A 1T 2-Y48021	21	.438	.479				
A 1T 2-Y48022	22	.458	.500				
A 1T 2-Y48023	23	.479	.521				
A 1T 2-Y48024	24	.500	.542				
A 1T 2-Y48025	25	.521	.563				
A 1T 2-Y48026	26	.542	.583				
A 1T 2-Y48027	27	.563	.604				
A 1T 2-Y48028	28	.583	.625	3/16	29/64	#4-40	Plain
A 1T 2-Y48029	29	.604	.646				
A 1T 2-Y48030	30	.625	.667				
A 1T 2-Y48031	31	.646	.688				
A 1T 2-Y48032	32	.667	.708				
A 1T 2-Y48033	33	.688	.729				
A 1T 2-Y48034	34	.708	.750				
A 1T 2-Y48035	35	.729	.771				
A 1T 2-Y48036	36	.750	.792				
A 1T 2-Y48037	37	.771	.813				
A 1T 2-Y48038	38	.792	.833	1/4	35/64	#6/32	Web
A 1T 2-Y48039	39	.813	.854				
A 1T 2-Y48040	40	.833	.875				
A 1T 2-Y48040S	40	.833	.875				
A 1T 2-Y48042	42	.875	.917				
A 1T 2-Y48044	44	.917	.958				
A 1T 2-Y48045	45	.938	.979				
A 1T 2-Y48048	48	1.000	1.042				
A 1T 2-Y48052	52	1.083	1.125				
A 1T 2-Y48054	54	1.125	1.167				
A 1T 2-Y48056	56	1.167	1.208	3/16	39/64	#4-40	Web
*A 1T 2-Y48056S	56	1.167	1.208				
A 1T 2-Y48060	60	1.250	1.292				
A 1T 2-Y48064	64	1.333	1.375				
A 1T 2-Y48066	66	1.375	1.417				
A 1T 2-Y48072	72	1.500	1.542				
A 1T 2-Y48080	80	1.667	1.708				
A 1T 2-Y48084	84	1.750	1.792				
A 1T 2-Y48096	96	2.000	2.042				
A 1T 2-Y48100	100	2.083	2.125				
A 1T 2-Y48108	108	2.250	2.292	1/4	39/64	#6-32	Web
A 1T 2-Y48120	120	2.500	2.542				

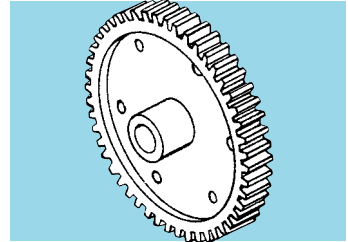
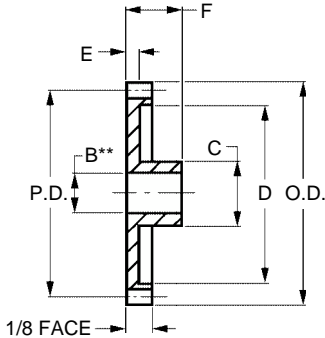
* Has 2 set screws



Molded Spur Gears - 48 Pitch

■ AGMA Q9

■ 20° TRUE PRESSURE ANGLE*



TRUE ANGLE™

PRECISION MOLDED TO AGMA 9 QUALITY

MATERIAL: Acetal

COLOR: Black

OPERATING TEMPERATURE: -40°F to 180°F

Catalog Number	No. of Teeth	P.D. +0.00 -0.10	O.D. +0.00 -0.10	B** Bore Nom.	C Hub Dia.	D	E Length	F	
A 1M 2-TA48010	10	.2083	.250	3/32	.152	Solid	Solid	.312	
A 1M 2-TA48012	12	.2500	.292	1/8	.194	Solid	Solid	.312	
A 1M 2-TA48014	14	.2917	.333		.235	Solid	Solid	.312	
A 1M 2-TA48015	15	.3125	.354		.250	Solid	Solid	.312	
A 1M 2-TA48016	16	.3333	.375		3/16	.312	Solid	Solid	.312
A 1M 2-TA48018	18	.3750	.417	1/4		.375	Solid	Solid	.312
A 1M 2-TA48020	20	.4167	.458			.375	.477	.081	.312
A 1M 2-TA48022	22	.4583	.500			.518	.602	.081	.312
A 1M 2-TA48024	24	.5000	.542		.685	.768	.081	.312	
A 1M 2-TA48026	26	.5417	.583	.437	.852	.081	.375		
A 1M 2-TA48030	30	.6250	.667		1.226	1.352	.081	.375	
A 1M 2-TA48032	32	.6667	.708			1.602	1.852	.081	.375
A 1M 2-TA48036	36	.7500	.792				1.935	2.042	.081
A 1M 2-TA48040	40	.8333	.875	2.125				2.125	.081
A 1M 2-TA48044	44	.9167	.958						
A 1M 2-TA48048	48	1.0000	1.042						
A 1M 2-TA48066	66	1.3750	1.417						
A 1M 2-TA48072	72	1.5000	1.542						
A 1M 2-TA48084	84	1.7500	1.792						
A 1M 2-TA48096	96	2.0000	2.042						
A 1M 2-TA48100	100	2.0833	2.125						

** BORE is for press fit on shaft size indicated.

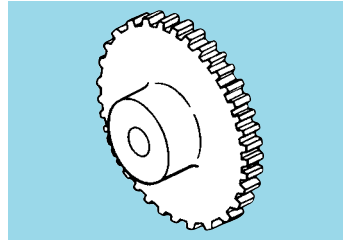
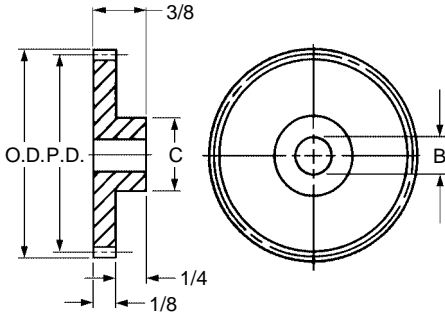
* Tooth profile and pressure angle of these gears are the same as metal gears that are manufactured by hobbing and shaping methods.



Molded Spur Gears - 48 Pitch

■ 20° PRESSURE ANGLE

■ 1/8 FACE



MATERIAL: Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	C Hub Dia.	Type
A 1M 2-Y48018	18	.375	.417	5/32	5/16	Plain
A 1M 2-Y48019	19	.396	.438		11/32	
A 1M 2-Y48020	20	.417	.458			
A 1M 2-Y48021	21	.438	.479		3/8	
A 1M 2-Y48022	22	.458	.500			
A 1M 2-Y48023	23	.479	.521		13/32	
A 1M 2-Y48024	24	.500	.542			
A 1M 2-Y48025	25	.521	.563		29/64	
A 1M 2-Y48026	26	.542	.583			
A 1M 2-Y48027	27	.563	.604		31/64	
A 1M 2-Y48028	28	.583	.625			
A 1M 2-Y48029	29	.604	.646	1/2		
A 1M 2-Y48030	30	.625	.667			
A 1M 2-Y48031	31	.646	.688	3/16	35/64	Plain
A 1M 2-Y48032	32	.667	.708			
A 1M 2-Y48033	33	.688	.729			
A 1M 2-Y48034	34	.708	.750			
A 1M 2-Y48035	35	.729	.771			
A 1M 2-Y48036	36	.750	.792			
A 1M 2-Y48037	37	.771	.813			
A 1M 2-Y48038	38	.792	.833			
A 1M 2-Y48039	39	.813	.854			
A 1M 2-Y48040	40	.833	.875			
A 1M 2-Y48042	42	.875	.917	1/4	39/64	Web
A 1M 2-Y48044	44	.917	.958			
A 1M 2-Y48045	45	.938	.979			
A 1M 2-Y48048	48	1.000	1.042			
A 1M 2-Y48052	52	1.083	1.125			
A 1M 2-Y48054	54	1.125	1.167			
A 1M 2-Y48056	56	1.167	1.208			
A 1M 2-Y48060	60	1.250	1.292			
A 1M 2-Y48064	64	1.333	1.375			
A 1M 2-Y48066	66	1.375	1.417			
A 1M 2-Y48072	72	1.500	1.542			
A 1M 2-Y48080	80	1.667	1.708			
A 1M 2-Y48084	84	1.750	1.792			
A 1M 2-Y48096	96	2.000	2.042			
A 1M 2-Y48100	100	2.083	2.125			
A 1M 2-Y48108	108	2.250	2.292			
A 1M 2-Y48120	120	2.500	2.542			

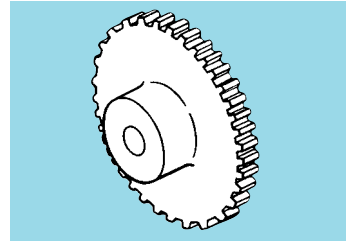
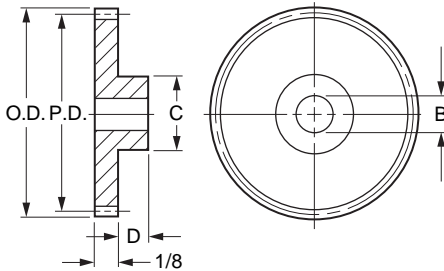


INCH

Molded Spur Gears - 48 Pitch

■ 14-1/2° PRESSURE ANGLE

■ 1/8 FACE WIDTH



MATERIAL: Nylon 101

Catalog Number	No. of Teeth	P.D.	O.D. Ref.	B Bore	C Hub Dia.	D Hub Proj.
A 1N 2-N48012	12	.250	.29	3/32	3/16	3/16
A 1N 2-N48014	14	.292	.33		1/4	
A 1N 2-N48016	16	.333	.37		5/16	
A 1N 2-N48018	18	.375	.41	1/8	3/8	1/4
A 1N 2-N48020	20	.417	.45			
A 1N 2-N48024	24	.500	.54			
A 1N 2-N48028	28	.583	.62			
A 1N 2-N48032	32	.667	.70	1/4	7/16	1/4
A 1N 2-N48036	36	.750	.79			
A 1N 2-N48040	40	.833	.87	3/16	5/8	1/4
A 1N 2-N48042	42	.875	.91			
A 1N 2-N48044	44	.917	.95	1/8	9/32	1/8
A 1N 2-N48048	48	1.000	1.04	3/16	5/8	1/4
A 1N 2-N48056	56	1.167	1.20			
A 1N 2-N48060	60	1.250	1.29	1/4	5/8	1/4
A 1N 2-N48064	64	1.333	1.37			
A 1N 2-N48072	72	1.500	1.54			
A 1N 2-N48080	80	1.667	1.70			
A 1N 2-N48096	96	2.000	2.04			

For engineering assistance for all SDP components, call on our applications engineers.
Discounts available for large quantity orders.

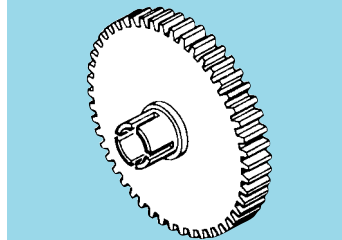
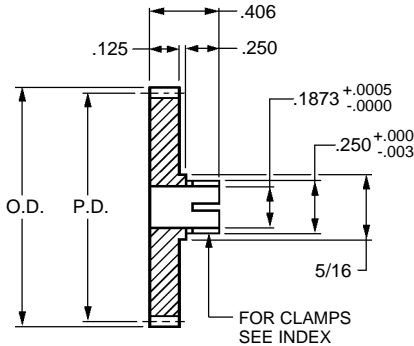
S INCH**Clamp Type Spur Gears - 48 Pitch**

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/16 BORE

**S** Precision Component

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1164Z-048S017	S1164Z-048A017	17	0.3542	0.396
S1164Z-048S018	S1164Z-048A018	18	0.3750	0.417
S1164Z-048S019	S1164Z-048A019	19	0.3958	0.438
S1164Z-048S020	S1164Z-048A020	20	0.4167	0.458
S1164Z-048S021	S1164Z-048A021	21	0.4375	0.479
S1164Z-048S022	S1164Z-048A022	22	0.4583	0.500
S1164Z-048S024	S1164Z-048A024	24	0.5000	0.542
S1164Z-048S026	S1164Z-048A026	26	0.5417	0.583
S1164Z-048S027	S1164Z-048A027	27	0.5625	0.604
S1164Z-048S028	S1164Z-048A028	28	0.5833	0.625
S1164Z-048S030	S1164Z-048A030	30	0.6250	0.667
S1164Z-048S032	S1164Z-048A032	32	0.6667	0.708
S1164Z-048S036	S1164Z-048A036	36	0.7500	0.792
S1164Z-048S040	S1164Z-048A040	40	0.8333	0.875
S1164Z-048S042	S1164Z-048A042	42	0.8750	0.917
S1164Z-048S046	S1164Z-048A046	46	0.9583	1.000
S1164Z-048S048	S1164Z-048A048	48	1.0000	1.042
S1164Z-048S050	S1164Z-048A050	50	1.0417	1.083
S1164Z-048S052	S1164Z-048A052	52	1.0833	1.125
S1164Z-048S056	S1164Z-048A056	56	1.1667	1.208
S1164Z-048S060	S1164Z-048A060	60	1.2500	1.292
S1164Z-048S064	S1164Z-048A064	64	1.3333	1.375
S1164Z-048S066	S1164Z-048A066	66	1.3750	1.417
S1164Z-048S070	S1164Z-048A070	70	1.4583	1.500
S1164Z-048S072	S1164Z-048A072	72	1.5000	1.542
S1164Z-048S076	S1164Z-048A076	76	1.5833	1.625
S1164Z-048S080	S1164Z-048A080	80	1.6667	1.708
S1164Z-048S084	S1164Z-048A084	84	1.7500	1.792
S1164Z-048S088	S1164Z-048A088	88	1.8333	1.875
S1164Z-048S090	S1164Z-048A090	90	1.8750	1.917

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



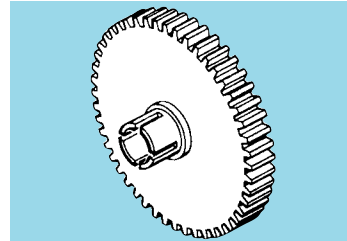
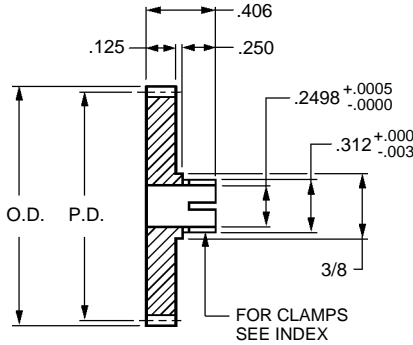
Clamp Type Spur Gears - 48 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1166Z-048S020	S1166Z-048A020	20	0.4167	0.458
S1166Z-048S023	S1166Z-048A023	23	0.4792	0.521
S1166Z-048S024	S1166Z-048A024	24	0.5000	0.542
S1166Z-048S025	S1166Z-048A025	25	0.5208	0.563
S1166Z-048S026	S1166Z-048A026	26	0.5417	0.583
S1166Z-048S027	S1166Z-048A027	27	0.5625	0.604
S1166Z-048S028	S1166Z-048A028	28	0.5833	0.625
S1166Z-048S029	S1166Z-048A029	29	0.6042	0.646
S1166Z-048S030	S1166Z-048A030	30	0.6250	0.667
S1166Z-048S032	S1166Z-048A032	32	0.6667	0.708
S1166Z-048S034	S1166Z-048A034	34	0.7083	0.750
S1166Z-048S035	S1166Z-048A035	35	0.7292	0.771
S1166Z-048S036	S1166Z-048A036	36	0.7500	0.792
S1166Z-048S038	S1166Z-048A038	38	0.7917	0.833
S1166Z-048S040	S1166Z-048A040	40	0.8333	0.875
S1166Z-048S042	S1166Z-048A042	42	0.8750	0.917
S1166Z-048S044	S1166Z-048A044	44	0.9167	0.958
S1166Z-048S045	S1166Z-048A045	45	0.9375	0.979
S1166Z-048S046	S1166Z-048A046	46	0.9583	1.000
S1166Z-048S048	S1166Z-048A048	48	1.0000	1.042
S1166Z-048S050	S1166Z-048A050	50	1.0417	1.083
S1166Z-048S054	S1166Z-048A054	54	1.1250	1.167
S1166Z-048S055	S1166Z-048A055	55	1.1458	1.188
S1166Z-048S056	S1166Z-048A056	56	1.1667	1.208
S1166Z-048S060	S1166Z-048A060	60	1.2500	1.292
S1166Z-048S064	S1166Z-048A064	64	1.3333	1.375
S1166Z-048S065	S1166Z-048A065	65	1.3542	1.396
S1166Z-048S070	S1166Z-048A070	70	1.4583	1.500
S1166Z-048S072	S1166Z-048A072	72	1.5000	1.542
S1166Z-048S075	S1166Z-048A075	75	1.5625	1.604

* T4 or T351 Aluminum Alloy, anodized before cutting.

Continued on the next page

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



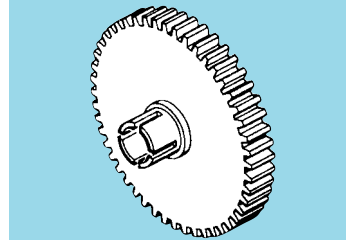
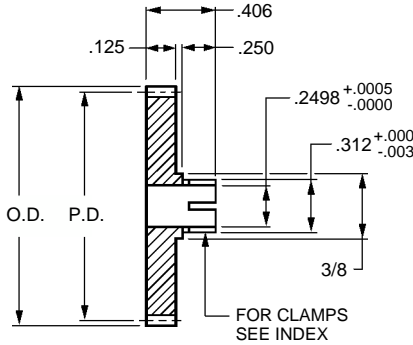
Clamp Type Spur Gears - 48 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1166Z-048S078	S1166Z-048A078	78	1.6250	1.667
S1166Z-048S080	S1166Z-048A080	80	1.6667	1.708
S1166Z-048S084	S1166Z-048A084	84	1.7500	1.792
S1166Z-048S085	S1166Z-048A085	85	1.7708	1.813
S1166Z-048S090	S1166Z-048A090	90	1.8750	1.917
S1166Z-048S092	S1166Z-048A092	92	1.9167	1.958
S1166Z-048S095	S1166Z-048A095	95	1.9792	2.021
S1166Z-048S096	S1166Z-048A096	96	2.0000	2.042
S1166Z-048S100	S1166Z-048A100	100	2.0833	2.125
S1166Z-048S105	S1166Z-048A105	105	2.1875	2.229
S1166Z-048S108	S1166Z-048A108	108	2.2500	2.292
S1166Z-048S110	S1166Z-048A110	110	2.2917	2.333
S1166Z-048S115	S1166Z-048A115	115	2.3958	2.438
S1166Z-048S120	S1166Z-048A120	120	2.5000	2.542
S1166Z-048S126	S1166Z-048A126	126	2.6250	2.667
S1166Z-048S130	S1166Z-048A130	130	2.7083	2.750
S1166Z-048S132	S1166Z-048A132	132	2.7500	2.792
S1166Z-048S140	S1166Z-048A140	140	2.9167	2.958
S1166Z-048S144	S1166Z-048A144	144	3.0000	3.042
S1166Z-048S145	S1166Z-048A145	145	3.0208	3.063
S1166Z-048S150	S1166Z-048A150	150	3.1250	3.167
S1166Z-048S156	S1166Z-048A156	156	3.2500	3.292
S1166Z-048S160	S1166Z-048A160	160	3.3333	3.375
S1166Z-048S168	S1166Z-048A168	168	3.5000	3.542
S1166Z-048S170	S1166Z-048A170	170	3.5417	3.583
S1166Z-048S174	S1166Z-048A174	174	3.6250	3.667
S1166Z-048S180	S1166Z-048A180	180	3.7500	3.792
S1166Z-048S185	S1166Z-048A185	185	3.8542	3.896
S1166Z-048S192	S1166Z-048A192	192	4.0000	4.042
S1166Z-048S198	S1166Z-048A198	198	4.1250	4.167

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

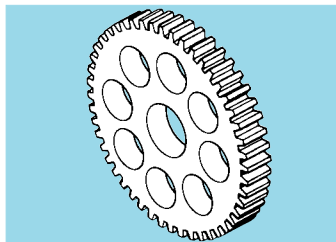
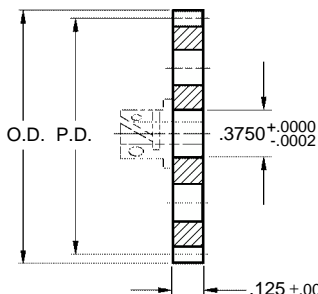
S INCH**Hubless Spur Gears - 48 Pitch**

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.

- All gears over 2-1/8" Dia. supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-048S029	S1268Z-048A029	29	0.6042	0.646
S1268Z-048S030	S1268Z-048A030	30	0.6250	0.667
S1268Z-048S032	S1268Z-048A032	32	0.6667	0.708
S1268Z-048S040	S1268Z-048A040	40	0.8333	0.875
S1268Z-048S044	S1268Z-048A044	44	0.9167	0.958
S1268Z-048S048	S1268Z-048A048	48	1.0000	1.042
S1268Z-048S050	S1268Z-048A050	50	1.0417	1.083
S1268Z-048S054	S1268Z-048A054	54	1.1250	1.167
S1268Z-048S060	S1268Z-048A060	60	1.2500	1.292
S1268Z-048S064	S1268Z-048A064	64	1.3333	1.375
S1268Z-048S065	S1268Z-048A065	65	1.3542	1.396
S1268Z-048S070	S1268Z-048A070	70	1.4583	1.500
S1268Z-048S072	S1268Z-048A072	72	1.5000	1.542
S1268Z-048S075	S1268Z-048A075	75	1.5625	1.604
S1268Z-048S080	S1268Z-048A080	80	1.6667	1.708
S1268Z-048S084	S1268Z-048A084	84	1.7500	1.792
S1268Z-048S090	S1268Z-048A090	90	1.8750	1.917
S1268Z-048S096	S1268Z-048A096	96	2.0000	2.042
S1268Z-048S100	S1268Z-048A100	100	2.0833	2.125
S1268Z-048S105	S1268Z-048A105	105	2.1875	2.229
S1268Z-048S110	S1268Z-048A110	110	2.2917	2.333
S1268Z-048S120	S1268Z-048A120	120	2.5000	2.542
S1268Z-048S130	S1268Z-048A130	130	2.7083	2.750
S1268Z-048S140	S1268Z-048A140	140	2.9167	2.958
S1268Z-048S144	S1268Z-048A144	144	3.0000	3.042
S1268Z-048S150	S1268Z-048A150	150	3.1250	3.167
S1268Z-048S180	S1268Z-048A180	180	3.7500	3.792
S1268Z-048S186	S1268Z-048A186	186	3.8750	3.917
S1268Z-048S192	S1268Z-048A192	192	4.0000	4.042
S1268Z-048S198	S1268Z-048A198	198	4.1250	4.167

*T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



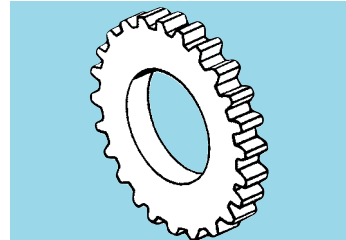
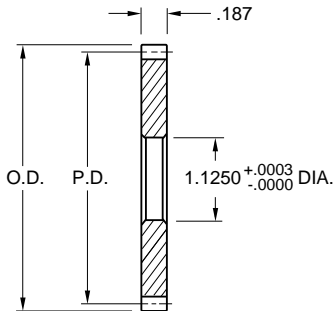
Differential End Gears - 48 Pitch

■ AGMA Q12

■ 20° PRESSURE ANGLE

■ 3/16 FACE

■ 1-1/8 BORE



Catalog Number		Number of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum Anodized Before Hobbing			
S1289Z-048S069C	S1289Z-048A069C	69	1.4375	1.4792
S1289Z-048S072C	S1289Z-048A072C	72	1.5000	1.5417
S1289Z-048S080C	S1289Z-048A080C	80	1.6667	1.7083
S1289Z-048S082C	S1289Z-048A082C	82	1.7083	1.7500
S1289Z-048S086C	S1289Z-048A086C	86	1.7917	1.8333
S1289Z-048S090C	S1289Z-048A090C	90	1.8750	1.9167
S1289Z-048S095C	S1289Z-048A095C	95	1.9792	2.0208
S1289Z-048S096C	S1289Z-048A096C	96	2.0000	2.0417
S1289Z-048S100C	S1289Z-048A100C	100	2.0833	2.1250
S1289Z-048S110C	S1289Z-048A110C	110	2.2917	2.3333
S1289Z-048S120C	S1289Z-048A120C	120	2.5000	2.5417

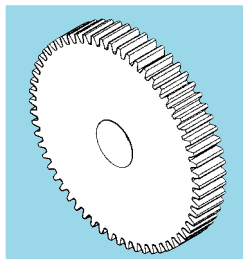
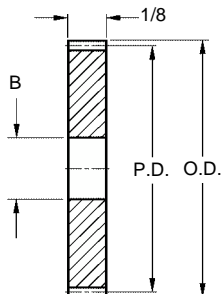
NOTE: The end gears shown on this page will be assembled to differentials which are ordered at the same time, free of charge.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and / or material, passivation for stainless steel.

**INCH****Hubless Spur Gears - 48 Pitch**

■ 14-1/2° PRESSURE ANGLE

■ 1/8 FACE WIDTH



MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B 1-N48007	7	.146	.188	1/16
A 1B 1-N48008	8	.167	.208	3/32
A 1B 1-N48009	9	.188	.229	
A 1B 1-N48010	10	.208	.250	
A 1B 1-N48011	11	.229	.271	
A 1B 1-N48012	12	.250	.292	1/8
A 1B 1-N48013	13	.271	.313	
A 1B 1-N48014	14	.292	.333	
A 1B 1-N48015	15	.313	.354	
A 1B 1-N48016	16	.333	.375	
A 1B 1-N48018	18	.375	.417	
A 1B 1-N48020	20	.417	.458	3/16
A 1B 1-N48022	22	.458	.500	
A 1B 1-N48024	24	.500	.542	
A 1B 1-N48026	26	.542	.583	
A 1B 1-N48028	28	.583	.625	
A 1B 1-N48030	30	.625	.667	
A 1B 1-N48032	32	.667	.708	
A 1B 1-N48036	36	.750	.792	
A 1B 1-N48040	40	.833	.875	
A 1B 1-N48044	44	.917	.958	

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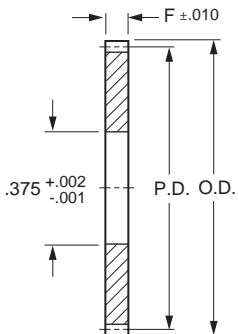
SDPSI Stamped Hubless Spur Gears - 48 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° PRESSURE ANGLE

■ 1/16 & 1/32 FACE

■ 3/8 BORE



MATERIAL: 5052-H32 Aluminum Alloy

* Catalog Number	No. of Teeth	P.D.	O.D.	F Face Width
A 1S 1-N48040	40	.833	.875	1/16
A 1S 1-N48048	48	1.000	1.042	
A 1S 1-N48056	56	1.167	1.208	
A 1S 1-N48058	58	1.208	1.250	
A 1S 1-N48059	59	1.229	1.271	
A 1S 1-N48060	60	1.250	1.292	
A 1S 1-N48069	69	1.438	1.479	
A 1S 1-N48070	70	1.458	1.500	
A 1S 1-N48072	72	1.500	1.542	
A 1S 1-N48075	75	1.563	1.604	
A 1S 1-N48078	78	1.625	1.667	
A 1S 1-N48080	80	1.667	1.708	
A 1S 1-N48084	84	1.750	1.792	
A 1S 1-N48096	96	2.000	2.042	
A 1S 1-N48120	120	2.500	2.542	
A 1S 1-N48192	192	4.000	4.042	
A 1S11-N48036	36	.750	.792	1/32
A 1S11-N48039	39	.813	.854	
A 1S11-N48040	40	.833	.875	
A 1S11-N48042	42	.875	.917	
A 1S11-N48045	45	.938	.979	
A 1S11-N48046	46	.958	1.000	
A 1S11-N48048	48	1.000	1.042	
A 1S11-N48055	55	1.146	1.188	
A 1S11-N48056	56	1.167	1.208	
A 1S11-N48058	58	1.208	1.250	
A 1S11-N48060	60	1.250	1.292	
A 1S11-N48063	63	1.313	1.354	
A 1S11-N48064	64	1.333	1.375	
A 1S11-N48069	69	1.438	1.479	
A 1S11-N48072	72	1.500	1.542	
A 1S11-N48078	78	1.625	1.667	
A 1S11-N48080	80	1.667	1.708	
A 1S11-N48090	90	1.875	1.917	
A 1S11-N48109	109	2.271	2.313	

* To be discontinued when present stock is depleted.

Please see "Gear Hubs" page for available hub sizes.

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

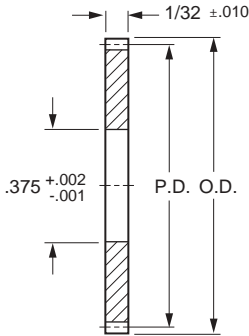
SDPSI Stamped Hubless Spur Gears - 48 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 20° PRESSURE ANGLE

■ 1/32 FACE

■ 3/8 BORE



The face of a stamped gear tooth has a radius on one side from the outside diameter to slightly below the pitch diameter. In cases where the material thickness approaches or exceeds the tooth width at the pitch line, the face width of the tooth at the outside diameter will be approximately 2/3 material thickness, and 80% to 90% of material thickness at the pitch diameter.

● **48 PITCH** **MATERIAL:** 5052-H32 Aluminum Alloy

*Catalog Number	No. of Teeth	P.D.	O.D.
A 1S 1-Y48054	54	1.125	1.167
A 1S 1-Y48060	60	1.250	1.292
A 1S 1-Y48061	61	1.271	1.313
A 1S 1-Y48066	66	1.375	1.417
A 1S 1-Y48071	71	1.479	1.521
A 1S 1-Y48095	95	1.979	2.021
A 1S 1-Y48101	101	2.104	2.146

*To be discontinued when present stock is depleted.

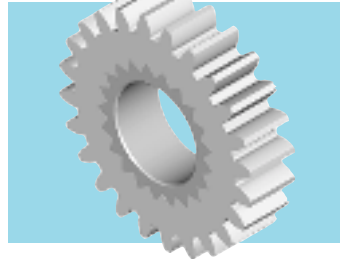
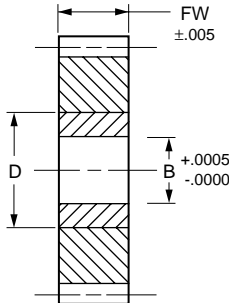
Please see "Gear Hubs" page for available hub sizes.



Hubless Composite Spur Gears - 48 Pitch

- AGMA Q9
- 20° PRESSURE ANGLE
- 1/4 & 3/8 FACES
- 3/8 & 1/2 BORES

INTECH Power-Core™

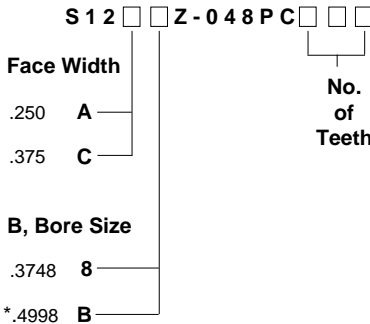


FEATURES:

- Self-lubricating
- Quiet operation
- Precision hobbled & machined
- Integral metal core
- Dimensionally stable against moisture
- High torque transmission
- Lightweight
- Shock-absorbent
- Noncorrodible

MATERIAL: Gear- Cast Nylon 12 (PA12G)
Knurled Core - 303 Stainless Steel

CATALOG NUMBER DESIGNATION:



* Only available with 64 to 192 teeth

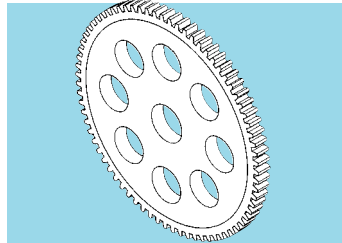
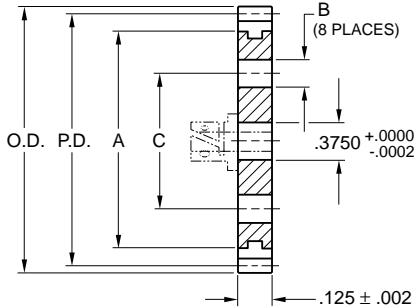
Example:
S12A8Z-048PC096 is a .250 Face, .3748 Bore, 48 Pitch Hubless Spur Gear with 96 Teeth.

No. of Teeth	P.D.	O.D.	D Core Dia.
44	.9167	.958	.630
48	1.0000	1.042	.630
50	1.0417	1.083	.630
56	1.1667	1.208	.787
60	1.2500	1.292	.787
64	1.3333	1.375	.787
72	1.5000	1.542	.787
80	1.6667	1.708	.984
84	1.7500	1.792	.984
90	1.8750	1.917	.984
96	2.0000	2.042	1.181
100	2.0833	2.125	1.181
108	2.2500	2.292	1.181
120	2.5000	2.542	1.378
132	2.7500	2.792	1.575
144	3.0000	3.042	1.575
156	3.2500	3.292	1.575
168	3.5000	3.542	1.575
180	3.7500	3.792	1.575
192	4.0000	4.042	1.772

NOTE: Other face widths, number of teeth, bore diameters and carbon steel core available on special order.

See pages 1-6 thru 1-8 for technical data on Power-Core™ material.

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/8 BORE



MATERIAL: Core – Aluminum 2024-T3, Chemical Filmed
Rim – Acetal

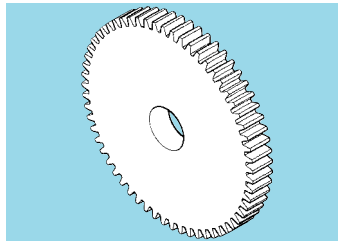
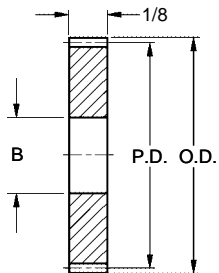
Catalog Number	No. of Teeth	P.D.	O.D.	A Dia.	B Dia.	C Dia.
S1268Z-048M048	48	1.0000	1.042	5/8	—	—
S1268Z-048M054	54	1.1250	1.167	7/8		
S1268Z-048M060	60	1.2500	1.292	7/8		
S1268Z-048M064	64	1.3333	1.375	1-1/8	—	—
S1268Z-048M065	65	1.3542	1.396			
S1268Z-048M070	70	1.4583	1.500			
S1268Z-048M072	72	1.5000	1.542			
S1268Z-048M075	75	1.5625	1.604			
S1268Z-048M080	80	1.6667	1.708	1-3/8	—	—
S1268Z-048M084	84	1.7500	1.792			
S1268Z-048M085	85	1.7708	1.813			
S1268Z-048M090	90	1.8750	1.917	1-5/8	7/32	13/16
S1268Z-048M092	92	1.9167	1.958			
S1268Z-048M095	95	1.9792	2.021			
S1268Z-048M096	96	2.0000	2.042			
S1268Z-048M100	100	2.0833	2.125	1-7/8	5/16	1-3/32
S1268Z-048M105	105	2.1875	2.229			
S1268Z-048M110	110	2.2917	2.333			
S1268Z-048M115	115	2.3958	2.438	2-1/8	3/8	1-3/8
S1268Z-048M120	120	2.5000	2.542	2-1/8		
S1268Z-048M130	130	2.7083	2.750	2-3/8		
S1268Z-048M140	140	2.9167	2.958	2-5/8		1-3/4
S1268Z-048M144	144	3.0000	3.042	2-5/8		
S1268Z-048M150	150	3.1250	3.167	2-7/8		

See Index for hubs. Assembled upon request at a nominal charge.
Available on special order: 14-1/2° P.A., teeth not listed, different bore and/or materials.

S INCH**Molded Hubless Spur Gears - 48 Pitch**

■ 14-1/2° PRESSURE ANGLE

■ 1/8 FACE WIDTH

**MATERIAL:** Nylon 101

Catalog Number	No. of Teeth	P.D.	O.D. Ref.	B Bore
A 1N 1-N48012	12	.250	.29	1/8
A 1N 1-N48014	14	.292	.33	
A 1N 1-N48016	16	.333	.38	
A 1N 1-N48018	18	.375	.42	
A 1N 1-N48020	20	.417	.46	
A 1N 1-N48024	24	.500	.54	
A 1N 1-N48028	28	.583	.63	3/16
A 1N 1-N48032	32	.667	.71	
A 1N 1-N48036	36	.750	.79	
A 1N 1-N48040	40	.833	.88	
A 1N 1-N48048	48	1.000	1.04	
A 1N 1-N48056	56	1.167	1.21	
A 1N 1-N48060	60	1.250	1.29	1/4
A 1N 1-N48064	64	1.333	1.38	
A 1N 1-N48072	72	1.500	1.54	
A 1N 1-N48080	80	1.667	1.71	

Other bore sizes available on special order.



Fairloc® Hub Gears - 32 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .197 & .250 FACE WIDTH

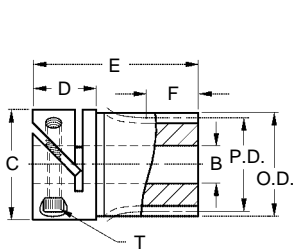


Fig. 1

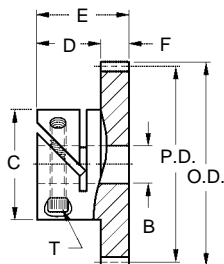
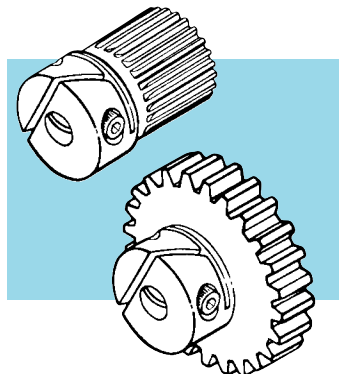


Fig. 2



NOTE: Socket Head Cap Screw Supplied.



MATERIAL: 303 Stainless Steel

Catalog Number	Fig. No.	No. of Teeth	P.D.	O.D.	B Bore +.0005 -.0000	F	E	C	D	T	Hub Clear. Rad.
S1VS32-014F1608	1	14	0.4375	0.500	.1248	.250	.866	.551	.315	#2-56	.326
S1VS32-015F1608		15	0.4688	0.531							
S1VS32-016F1608		16	0.5000	0.563							
S1VS32-018F1608		18	0.5625	0.625							
S1VS32-020F1312	2	20	0.6250	0.688	.1873	.197	.512	.551	.315	#2-56	.326
S1VS32-024F1312		24	0.7500	0.813							
S1VS32-025F1312		25	0.7813	0.844							
S1VS32-028F1312		28	0.8750	0.938							
S1VS32-030F1312		30	0.9375	1.000							
S1VS32-032F1312		32	1.0000	1.063							
S1VS32-036F1316	2	36	1.1250	1.188	.2498	.197	.591	.669	.394	#2-56	.445
S1VS32-040F1316		40	1.2500	1.313							
S1VS32-045F1316		45	1.4063	1.469							
S1VS32-048F1316	2	48	1.5000	1.563	.3747	.197	.750	.945	.551	#6-32	.551
S1VS32-050F1316		50	1.5625	1.625							
S1VS32-054F1316		54	1.6875	1.750							
S1VS32-056F1316		56	1.7500	1.813							
S1VS32-060F1324	2	60	1.8750	1.938	.3747	.197	.750	.945	.551	#6-32	.551
S1VS32-064F1324		64	2.0000	2.063							
S1VS32-070F1324		70	2.1875	2.250							
S1VS32-072F1324	2	72	2.2500	2.313	.3747	.197	.750	.945	.551	#6-32	.551
S1VS32-075F1324		75	2.3438	2.406							
S1VS32-080F1324		80	2.5000	2.563							
S1VS32-090F1324	2	90	2.8125	2.875	.3747	.197	.750	.945	.551	#6-32	.551
S1VS32-096F1324		96	3.0000	3.063							
S1VS32-100F1324		100	3.1250	3.188							

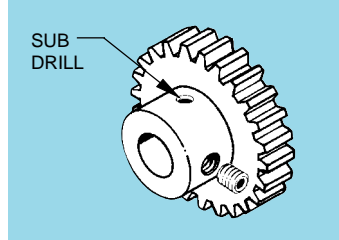
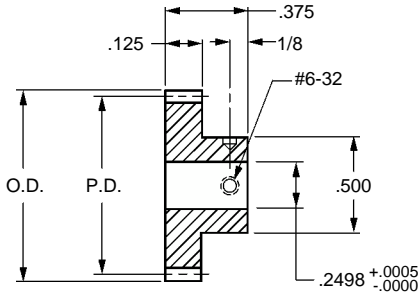
Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE

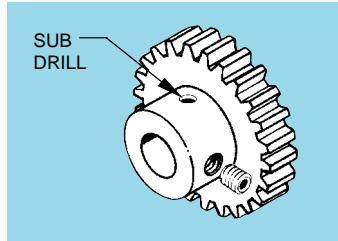
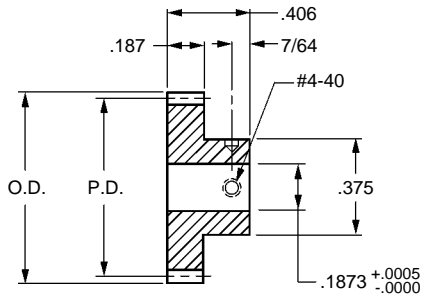


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-032S014	S1066Z-032A014	14	0.4375	0.500
S1066Z-032S018	S1066Z-032A018	18	0.5625	0.625
S1066Z-032S020	S1066Z-032A020	20	0.6250	0.688
S1066Z-032S024	S1066Z-032A024	24	0.7500	0.813
S1066Z-032S026	S1066Z-032A026	26	0.8125	0.875
S1066Z-032S028	S1066Z-032A028	28	0.8750	0.938
S1066Z-032S030	S1066Z-032A030	30	0.9375	1.000
S1066Z-032S032	S1066Z-032A032	32	1.0000	1.063
S1066Z-032S036	S1066Z-032A036	36	1.1250	1.188
S1066Z-032S040	S1066Z-032A040	40	1.2500	1.313
S1066Z-032S042	S1066Z-032A042	42	1.3125	1.375
S1066Z-032S048	S1066Z-032A048	48	1.5000	1.563
S1066Z-032S050	S1066Z-032A050	50	1.5625	1.625
S1066Z-032S054	S1066Z-032A054	54	1.6875	1.750
S1066Z-032S056	S1066Z-032A056	56	1.7500	1.813
S1066Z-032S060	S1066Z-032A060	60	1.8750	1.938
S1066Z-032S064	S1066Z-032A064	64	2.0000	2.063
S1066Z-032S070	S1066Z-032A070	70	2.1875	2.250
S1066Z-032S072	S1066Z-032A072	72	2.2500	2.313
S1066Z-032S075	S1066Z-032A075	75	2.3438	2.406
S1066Z-032S076	S1066Z-032A076	76	2.3750	2.438
S1066Z-032S080	S1066Z-032A080	80	2.5000	2.563
S1066Z-032S088	S1066Z-032A088	88	2.7500	2.813
S1066Z-032S090	S1066Z-032A090	90	2.8125	2.875
S1066Z-032S096	S1066Z-032A096	96	3.0000	3.063
S1066Z-032S100	S1066Z-032A100	100	3.1250	3.188
S1066Z-032S110	S1066Z-032A110	110	3.4375	3.500
S1066Z-032S120	S1066Z-032A120	120	3.7500	3.813
S1066Z-032S124	S1066Z-032A124	124	3.8750	3.938
S1066Z-032S130	S1066Z-032A130	130	4.0625	4.125

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16 BORE

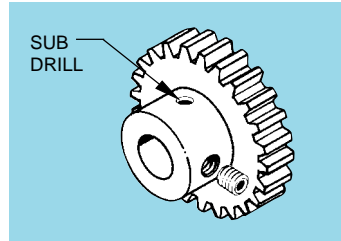
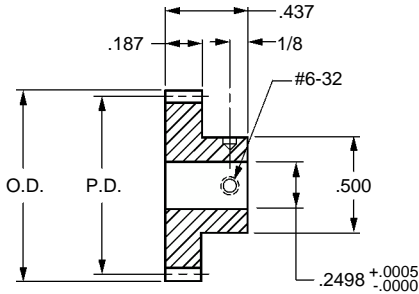


Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1084Z-032S012	S1084Z-032A012	12	0.3750	0.438
S1084Z-032S016	S1084Z-032A016	16	0.5000	0.563
S1084Z-032S018	S1084Z-032A018	18	0.5625	0.625
S1084Z-032S020	S1084Z-032A020	20	0.6250	0.688
S1084Z-032S022	S1084Z-032A022	22	0.6875	0.750
S1084Z-032S024	S1084Z-032A024	24	0.7500	0.813
S1084Z-032S026	S1084Z-032A026	26	0.8125	0.875
S1084Z-032S028	S1084Z-032A028	28	0.8750	0.938
S1084Z-032S030	S1084Z-032A030	30	0.9375	1.000
S1084Z-032S032	S1084Z-032A032	32	1.0000	1.063
S1084Z-032S036	S1084Z-032A036	36	1.1250	1.188
S1084Z-032S040	S1084Z-032A040	40	1.2500	1.313
S1084Z-032S048	S1084Z-032A048	48	1.5000	1.563
S1084Z-032S056	S1084Z-032A056	56	1.7500	1.813
S1084Z-032S060	S1084Z-032A060	60	1.8750	1.938
S1084Z-032S064	S1084Z-032A064	64	2.0000	2.063
S1084Z-032S068	S1084Z-032A068	68	2.1250	2.188
S1084Z-032S072	S1084Z-032A072	72	2.2500	2.313
S1084Z-032S080	S1084Z-032A080	80	2.5000	2.563
S1084Z-032S084	S1084Z-032A084	84	2.6250	2.688
S1084Z-032S088	S1084Z-032A088	88	2.7500	2.813
S1084Z-032S092	S1084Z-032A092	92	2.8750	2.938
S1084Z-032S096	S1084Z-032A096	96	3.0000	3.063
S1084Z-032S100	S1084Z-032A100	100	3.1250	3.188
S1084Z-032S108	S1084Z-032A108	108	3.3750	3.438
S1084Z-032S112	S1084Z-032A112	112	3.5000	3.563
S1084Z-032S116	S1084Z-032A116	116	3.6250	3.688
S1084Z-032S120	S1084Z-032A120	120	3.7500	3.813
S1084Z-032S128	S1084Z-032A128	128	4.0000	4.063
S1084Z-032S130	S1084Z-032A130	130	4.0625	4.125

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1086Z-032S014	S1086Z-032A014	14	0.4375	0.500
S1086Z-032S016	S1086Z-032A016	16	0.5000	0.563
S1086Z-032S018	S1086Z-032A018	18	0.5625	0.625
S1086Z-032S020	S1086Z-032A020	20	0.6250	0.688
S1086Z-032S022	S1086Z-032A022	22	0.6875	0.750
S1086Z-032S024	S1086Z-032A024	24	0.7500	0.813
S1086Z-032S026	S1086Z-032A026	26	0.8125	0.875
S1086Z-032S028	S1086Z-032A028	28	0.8750	0.938
S1086Z-032S030	S1086Z-032A030	30	0.9375	1.000
S1086Z-032S032	S1086Z-032A032	32	1.0000	1.063
S1086Z-032S034	S1086Z-032A034	34	1.0625	1.125
S1086Z-032S036	S1086Z-032A036	36	1.1250	1.188
S1086Z-032S040	S1086Z-032A040	40	1.2500	1.313
S1086Z-032S048	S1086Z-032A048	48	1.5000	1.563
S1086Z-032S052	S1086Z-032A052	52	1.6250	1.688
S1086Z-032S056	S1086Z-032A056	56	1.7500	1.813
S1086Z-032S060	S1086Z-032A060	60	1.8750	1.938
S1086Z-032S064	S1086Z-032A064	64	2.0000	2.063
S1086Z-032S072	S1086Z-032A072	72	2.2500	2.313
S1086Z-032S076	S1086Z-032A076	76	2.3750	2.438
S1086Z-032S080	S1086Z-032A080	80	2.5000	2.563
S1086Z-032S088	S1086Z-032A088	88	2.7500	2.813
S1086Z-032S092	S1086Z-032A092	92	2.8750	2.938
S1086Z-032S096	S1086Z-032A096	96	3.0000	3.063
S1086Z-032S100	S1086Z-032A100	100	3.1250	3.188
S1086Z-032S112	S1086Z-032A112	112	3.5000	3.563
S1086Z-032S120	S1086Z-032A120	120	3.7500	3.813
S1086Z-032S128	S1086Z-032A128	128	4.0000	4.063
S1086Z-032S130	S1086Z-032A130	130	4.0625	4.125
S1086Z-032S132	S1086Z-032A132	132	4.1250	4.188

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

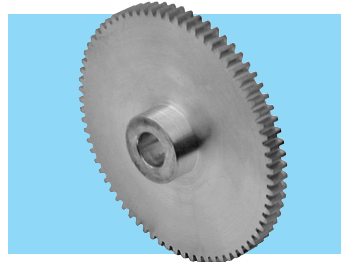
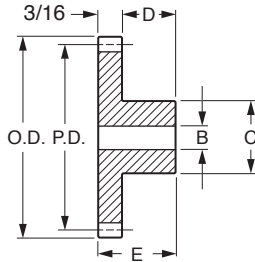


Spur Gears - 32 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° PRESSURE ANGLE

■ 3/16 FACE WIDTH



MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	E Length	C Hub Dia.	D Hub Proj.	Type	
A 1B 2-N32040	40	1.250	1.313	1/4	7/16	1/2	1/4	Plain	
A 1B 2-N32044	44	1.375	1.438						
A 1B 2-N32048	48	1.500	1.563						
A 1B 2-N32052	52	1.625	1.688						
A 1B 2-N32056A	56	1.750	1.813	5/16	7/16	5/8	1/4	Plain	
A 1B 2-N32060	60	1.875	1.938						
A 1B 2-N32064	64	2.000	2.063		1/2	5/8	5/16	Plain	
A 1B 2-N32064A	64	2.000	2.063		7/16	5/8	1/4	Plain	
A 1B 2-N32072	72	2.250	2.313		7/16				
A 1B 2-N32072A	72	2.250	2.313		1/2	5/16	Plain		
A 1B 2-N32080	80	2.500	2.563		1/2	5/8	5/16	1/4	Plain
A 1B 2-N32080A					7/16				
A 1B 2-N32096	96	3.000	3.063		7/16	5/8	1/4	Spoked	
A 1B 2-N32096A					1/2				3/4
A 1B 2-N32108	108	3.375	3.438		7/16	3/4	1/4	Plain	
A 1B 2-N32120	120	3.750	3.813		7/16	3/4	1/4	Spoked	
A 1B 2-N32128	128	4.000	4.063						
A 1B 2-N32128A	128	4.000	4.063						
A 1B 2-N32132	132	4.125	4.188						
A 1B 2-N32192	192	6.000	6.063	1/2	7/8	5/16	Spoked		

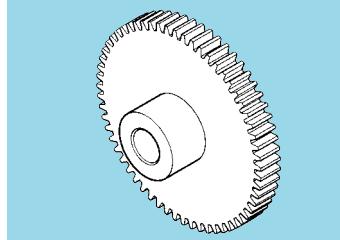
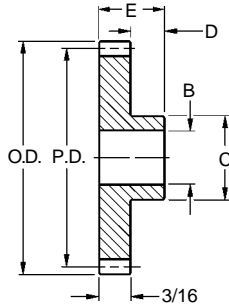
Gears other than standard stock sizes are available on special order.



Spur Gears - 32 Pitch

■ 14-1/2° PRESSURE ANGLE

■ 3/16 FACE



MATERIAL: Steel

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	E Length	C Hub Dia.	D Hub Proj.
A 1C 2-N32012	12	.375	.438	3/16	7/16	5/16	1/4
A 1C 2-N32015	15	.469	.531	3/16	1/2	3/8	5/16
A 1C 2-N32016	16	.500	.562			13/32	
A 1C 2-N32018	18	.562	.625	1/4	1/2	15/32	5/16
A 1C 2-N32020	20	.625	.687			17/32	
A 1C 2-N32022	22	.687	.750	5/16	1/2	19/32	5/16
A 1C 2-N32024	24	.750	.812			21/32	
A 1C 2-N32026	26	.812	.875	5/16	1/2	23/32	5/16
A 1C 2-N32028	28	.875	.937			5/16	
A 1C 2-N32030	30	.937	1.000	5/16	1/2	3/4	5/16
A 1C 2-N32032	32	1.000	1.062			3/4	
A 1C 2-N32032A	32	1.000	1.062	3/8	9/16	1	3/8
A 1C 2-N32040	40	1.250	1.312				5/16
A 1C 2-N32048	48	1.500	1.562	3/8	9/16	7/8	3/8
A 1C 2-N32056	56	1.750	1.812				3/8
A 1C 2-N32064	64	2.000	2.062	3/8	9/16	1-1/8	3/8
A 1C 2-N32080	80	2.500	2.562				1-1/4
A 1C 2-N32096	96	3.000	3.062	3/8	11/16	1-3/8	1/2
A 1C 2-N32128	128	4.000	4.062				1/2
A 1C 2-N32160	160	5.000	5.062	3/8	13/16	1-1/2	5/8
A 1C 2-N32192	192	6.000	6.062				5/8
A 1C 2-N32200	200	6.250	6.312				



Fairloc® Hub Acetal Spur Gears - 32 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

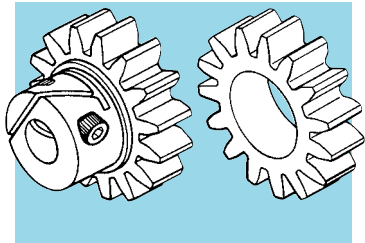
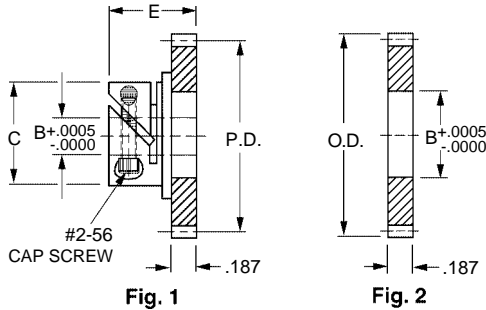


Fig. 1	Bore Ref.	C	E
	.1873	.438	.453
	.2498	.530	.483

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1V84Z-032DS020	S1V86Z-032DS020	S1288Z-032D020	20	.6250	.688
S1V84Z-032DS021	S1V86Z-032DS021	S1288Z-032D021	21	.6563	.719
S1V84Z-032DS022	S1V86Z-032DS022	S1288Z-032D022	22	.6875	.750
S1V84Z-032DS023	S1V86Z-032DS023	S1288Z-032D023	23	.7188	.781
S1V84Z-032DS024	S1V86Z-032DS024	S1288Z-032D024	24	.7500	.813
S1V84Z-032DS025	S1V86Z-032DS025	S1288Z-032D025	25	.7813	.844
S1V84Z-032DS026	S1V86Z-032DS026	S1288Z-032D026	26	.8125	.875
S1V84Z-032DS028	S1V86Z-032DS028	S1288Z-032D028	28	.8750	.938
S1V84Z-032DS030	S1V86Z-032DS030	S1288Z-032D030	30	.9375	1.000
S1V84Z-032DS032	S1V86Z-032DS032	S1288Z-032D032	32	1.0000	1.063
S1V84Z-032DS036	S1V86Z-032DS036	S1288Z-032D036	36	1.1250	1.188
S1V84Z-032DS040	S1V86Z-032DS040	S1288Z-032D040	40	1.2500	1.313
S1V84Z-032DS042	S1V86Z-032DS042	S1288Z-032D042	42	1.3125	1.375
S1V84Z-032DS044	S1V86Z-032DS044	S1288Z-032D044	44	1.3750	1.438
S1V84Z-032DS046	S1V86Z-032DS046	S1288Z-032D046	46	1.4375	1.500
S1V84Z-032DS048	S1V86Z-032DS048	S1288Z-032D048	48	1.5000	1.563
S1V84Z-032DS050	S1V86Z-032DS050	S1288Z-032D050	50	1.5625	1.625
S1V84Z-032DS052	S1V86Z-032DS052	S1288Z-032D052	52	1.6250	1.688
S1V84Z-032DS056	S1V86Z-032DS056	S1288Z-032D056	56	1.7500	1.813
S1V84Z-032DS060	S1V86Z-032DS060	S1288Z-032D060	60	1.8750	1.938
S1V84Z-032DS063	S1V86Z-032DS063	S1288Z-032D063	63	1.9688	2.031
S1V84Z-032DS064	S1V86Z-032DS064	S1288Z-032D064	64	2.0000	2.063
S1V84Z-032DS066	S1V86Z-032DS066	S1288Z-032D066	66	2.0625	2.125
S1V84Z-032DS069	S1V86Z-032DS069	S1288Z-032D069	69	2.1563	2.219
S1V84Z-032DS072	S1V86Z-032DS072	S1288Z-032D072	72	2.2500	2.313
S1V84Z-032DS075	S1V86Z-032DS075	S1288Z-032D075	75	2.3438	2.406
S1V84Z-032DS080	S1V86Z-032DS080	S1288Z-032D080	80	2.5000	2.563
S1V84Z-032DS084	S1V86Z-032DS084	S1288Z-032D084	84	2.6250	2.688
S1V84Z-032DS088	S1V86Z-032DS088	S1288Z-032D088	88	2.7500	2.813
S1V84Z-032DS092	S1V86Z-032DS092	S1288Z-032D092	92	2.8750	2.938
S1V84Z-032DS096	S1V86Z-032DS096	S1288Z-032D096	96	3.0000	3.063
S1V84Z-032DS104	S1V86Z-032DS104	S1288Z-032D104	104	3.2500	3.313
S1V84Z-032DS108	S1V86Z-032DS108	S1288Z-032D108	108	3.3750	3.438
S1V84Z-032DS112	S1V86Z-032DS112	S1288Z-032D112	112	3.5000	3.563
S1V84Z-032DS124	S1V86Z-032DS124	S1288Z-032D124	124	3.8750	3.938

Available on special order: 14-1/2° P.A., teeth not listed or different bore size.
This product is also available with pin type hubs. See page 1-105.



Acetal Spur Gears - 32 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

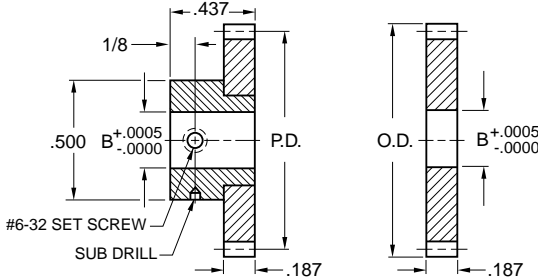
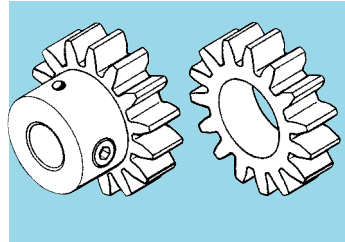


Fig. 1

Fig. 2

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel



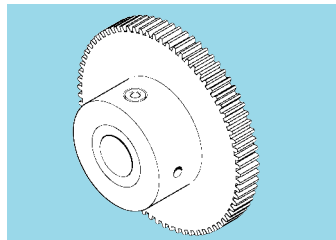
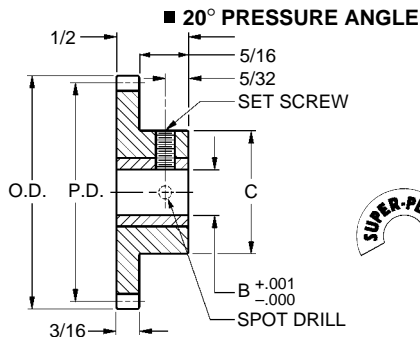
Catalog Number			No. of Teeth	P.D.	O.D.
PIN TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1084Z-032DS020	S1086Z-032DS020	S1288Z-032D020	20	.6250	.688
S1084Z-032DS021	S1086Z-032DS021	S1288Z-032D021	21	.6563	.719
S1084Z-032DS022	S1086Z-032DS022	S1288Z-032D022	22	.6875	.750
S1084Z-032DS023	S1086Z-032DS023	S1288Z-032D023	23	.7188	.781
S1084Z-032DS024	S1086Z-032DS024	S1288Z-032D024	24	.7500	.813
S1084Z-032DS025	S1086Z-032DS025	S1288Z-032D025	25	.7813	.844
S1084Z-032DS026	S1086Z-032DS026	S1288Z-032D026	26	.8125	.875
S1084Z-032DS028	S1086Z-032DS028	S1288Z-032D028	28	.8750	.938
S1084Z-032DS030	S1086Z-032DS030	S1288Z-032D030	30	.9375	1.000
S1084Z-032DS032	S1086Z-032DS032	S1288Z-032D032	32	1.0000	1.063
S1084Z-032DS036	S1086Z-032DS036	S1288Z-032D036	36	1.1250	1.188
S1084Z-032DS040	S1086Z-032DS040	S1288Z-032D040	40	1.2500	1.313
S1084Z-032DS042	S1086Z-032DS042	S1288Z-032D042	42	1.3125	1.375
S1084Z-032DS044	S1086Z-032DS044	S1288Z-032D044	44	1.3750	1.438
S1084Z-032DS046	S1086Z-032DS046	S1288Z-032D046	46	1.4375	1.500
S1084Z-032DS048	S1086Z-032DS048	S1288Z-032D048	48	1.5000	1.563
S1084Z-032DS050	S1086Z-032DS050	S1288Z-032D050	50	1.5625	1.625
S1084Z-032DS052	S1086Z-032DS052	S1288Z-032D052	52	1.6250	1.688
S1084Z-032DS056	S1086Z-032DS056	S1288Z-032D056	56	1.7500	1.813
S1084Z-032DS060	S1086Z-032DS060	S1288Z-032D060	60	1.8750	1.938
S1084Z-032DS063	S1086Z-032DS063	S1288Z-032D063	63	1.9688	2.031
S1084Z-032DS064	S1086Z-032DS064	S1288Z-032D064	64	2.0000	2.063
S1084Z-032DS066	S1086Z-032DS066	S1288Z-032D066	66	2.0625	2.125
S1084Z-032DS069	S1086Z-032DS069	S1288Z-032D069	69	2.1563	2.219
S1084Z-032DS072	S1086Z-032DS072	S1288Z-032D072	72	2.2500	2.313
S1084Z-032DS075	S1086Z-032DS075	S1288Z-032D075	75	2.3438	2.406
S1084Z-032DS080	S1086Z-032DS080	S1288Z-032D080	80	2.5000	2.563
S1084Z-032DS084	S1086Z-032DS084	S1288Z-032D084	84	2.6250	2.688
S1084Z-032DS088	S1086Z-032DS088	S1288Z-032D088	88	2.7500	2.813
S1084Z-032DS092	S1086Z-032DS092	S1288Z-032D092	92	2.8750	2.938
S1084Z-032DS096	S1086Z-032DS096	S1288Z-032D096	96	3.0000	3.063
S1084Z-032DS104	S1086Z-032DS104	S1288Z-032D104	104	3.2500	3.313
S1084Z-032DS108	S1086Z-032DS108	S1288Z-032D108	108	3.3750	3.438
S1084Z-032DS112	S1086Z-032DS112	S1288Z-032D112	112	3.5000	3.563
S1084Z-032DS124	S1086Z-032DS124	S1288Z-032D124	124	3.8750	3.938

Available on special order: 14-1/2° P.A., teeth not listed, or different bore size.

This product is also available with Fairloc® hubs. See page 1-104.



Molded Spur Gears - 32 Pitch



MATERIAL: Gear - Acetal
Insert - Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	C Hub Dia.	Set Screw	Type
A 1T 2-Y32012	12	.375	.438	1/8	9/32	#2-56	Plain
A 1T 2-Y32014	14	.438	.500		5/16		
A 1T 2-Y32015	15	.469	.531		5/16		
A 1T 2-Y32016	16	.500	.563		11/32		
A 1T 2-Y32018	18	.563	.625	3/16	11/32	#4-40	
A 1T 2-Y32020	20	.625	.688		1/2		
A 1T 2-Y32022	22	.688	.750		1/2		
A 1T 2-Y32024	24	.750	.813		9/16		
A 1T 2-Y32026	26	.813	.875	1/4	1/2	#6-32	
A 1T 2-Y32028	28	.875	.938		9/16		
A 1T 2-Y32030	30	.938	1.000		5/8		
A 1T 2-Y32032	32	1.000	1.063		5/16		
A 1T 2-Y32034	34	1.063	1.125				
A 1T 2-Y32036	36	1.125	1.188				
A 1T 2-Y32038	38	1.188	1.250				
A 1T 2-Y32040	40	1.250	1.313	5/16	13/16	#8-32	
A 1T 2-Y32042	42	1.313	1.375				
A 1T 2-Y32044	44	1.375	1.438				
A 1T 2-Y32048	48	1.500	1.563				
A 1T 2-Y32052	52	1.625	1.688	5/16	13/16	#8-32	
A 1T 2-Y32056	56	1.750	1.813				
A 1T 2-Y32064	64	2.000	2.063				
A 1T 2-Y32072	72	2.250	2.313				
A 1T 2-Y32080	80	2.500	2.563	5/16	13/16	#8-32	
A 1T 2-Y32096	96	3.000	3.063				

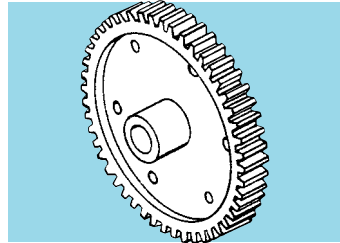
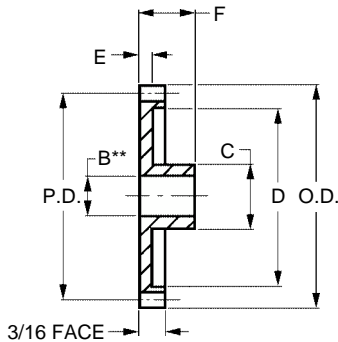


INCH

Molded Spur Gears - 32 Pitch

■ AGMA Q9

■ 20° TRUE PRESSURE ANGLE*



TRUE ANGLE™

PRECISION MOLDED TO AGMA 9 QUALITY

MATERIAL: Acetal

COLOR: Black

OPERATING TEMPERATURE: -40°F to 180°F

Catalog Number	No. of Teeth	P.D. +.000 -.010	O.D. +.000 -.010	B** Bore Nom.	C Hub Dia.	D	E	F					
A 1M 2-TA32008	8	.2500	.313	3/32	.162	Solid	Solid	.375					
A 1M 2-TA32010	10	.3125	.375	1/8	.225	Solid	Solid	.375					
A 1M 2-TA32012	12	.3750	.438	3/16	.285	Solid	Solid	.375					
A 1M 2-TA32014	14	.4375	.500		.312	Solid	Solid	.375					
A 1M 2-TA32015	15	.4688	.531		1/4	.375	Solid	Solid	.375				
A 1M 2-TA32016	16	.5000	.563										
A 1M 2-TA32018	18	.5625	.625										
A 1M 2-TA32020	20	.6250	.688										
A 1M 2-TA32022	22	.6875	.750							.375	.480	.093	.375
A 1M 2-TA32024	24	.7500	.813								.543		
A 1M 2-TA32026	26	.8125	.875							.375	.605	.093	.375
A 1M 2-TA32028	28	.8750	.938								.668		
A 1M 2-TA32030	30	.9375	1.000	.730									
A 1M 2-TA32032	32	1.0000	1.063	.793									
A 1M 2-TA32036	36	1.1250	1.188	.437	.918	.093	.437						
A 1M 2-TA32040	40	1.2500	1.313		1.042								
A 1M 2-TA32044	44	1.3750	1.438		.437			1.168					
A 1M 2-TA32048	48	1.5000	1.563					1.293					
A 1M 2-TA32052	52	1.6250	1.688					1.418					
A 1M 2-TA32056	56	1.7500	1.813		.437			1.543	.093	.437			
A 1M 2-TA32060	60	1.8750	1.938					1.668					
A 1M 2-TA32064	64	2.0000	2.063					1.793					

** BORE is for press fit on shaft size indicated.

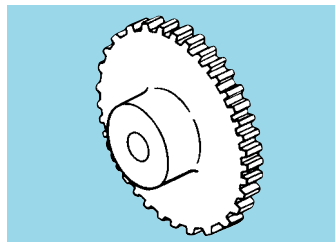
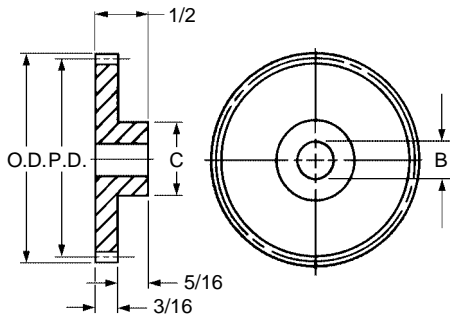
*Tooth profile and pressure angle of these gears are the same as metal gears that are manufactured by hobbing and shaping methods.



Molded Spur Gears - 32 Pitch

■ 20° PRESSURE ANGLE

■ 3/16 FACE



MATERIAL: Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	C Hub Dia.	Type
A 1M 2-Y32012	12	.375	.438	5/32	9/32	Plain
A 1M 2-Y32014	14	.438	.500		5/16	
A 1M 2-Y32015	15	.469	.531		5/16	
A 1M 2-Y32016	16	.500	.563	3/16	11/32	
A 1M 2-Y32018	18	.563	.625		15/32	
A 1M 2-Y32020	20	.625	.688		1/2	
A 1M 2-Y32022	22	.688	.750		1/2	
A 1M 2-Y32024	24	.750	.813		9/16	
A 1M 2-Y32026	26	.813	.875		1/2	
A 1M 2-Y32028	28	.875	.938	9/16	5/8	
A 1M 2-Y32030	30	.938	1.000			
A 1M 2-Y32032	32	1.000	1.063	1/4	39/64	
A 1M 2-Y32034	34	1.063	1.125			
A 1M 2-Y32036	36	1.125	1.188			
A 1M 2-Y32038	38	1.188	1.250			
A 1M 2-Y32040	40	1.250	1.313			
A 1M 2-Y32042	42	1.313	1.375			
A 1M 2-Y32044	44	1.375	1.438	5/8	39/64	
A 1M 2-Y32048	48	1.500	1.563			
A 1M 2-Y32052	52	1.625	1.688	5/16	43/64	
A 1M 2-Y32056	56	1.750	1.813			
A 1M 2-Y32064	64	2.000	2.063			
A 1M 2-Y32072	72	2.250	2.313			
A 1M 2-Y32080	80	2.500	2.563			
A 1M 2-Y32096	96	3.000	3.063			13/16

Discounts available on large quantity orders.

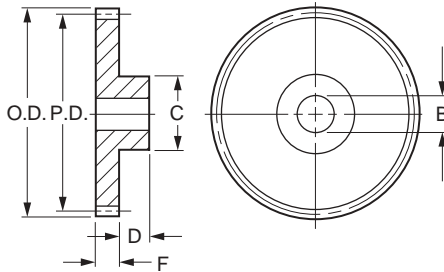
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Molded Spur Gears - 32 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° PRESSURE ANGLE



MATERIAL: Nylon 101

Catalog Number	No. of Teeth	P.D.	O.D. Ref.	B Bore	F Face Width	C Hub Dia.	D Hub Proj.
A 1N 2-N32012	12	.375	.44			1/4	3/16
A 1N 2-N32014	14	.438	.50	1/8	3/16	5/16	1/4
A 1N 2-N32016	16	.500	.56			3/8	
A 1N 2-N32018	18	.563	.63	3/16	3/16	3/8	1/4
A 1N 2-N32020	20	.625	.69			1/2	
A 1N 2-N32022	22	.688	.75	1/4	3/16	9/16	1/4
A 1N 2-N32024	24	.750	.81				
A 1N 2-N32028	28	.875	.94	3/16	3/16	5/8	1/4
A 1N 2-N32032	32	1.000	1.06	1/4	3/16	5/8	1/4
A 1N 2-N32036	36	1.125	1.19				
A 1N 2-N32040	40	1.250	1.31				
A 1N 2-N32044	44	1.375	1.44	1/4	3/16	5/8	1/4
A 1N 2-N32048	48	1.500	1.56				
A 1N 2-N32052	52	1.625	1.69				
A 1N 2-N32062	62	1.938	2.00	3/8	1/4	5/8	3/8



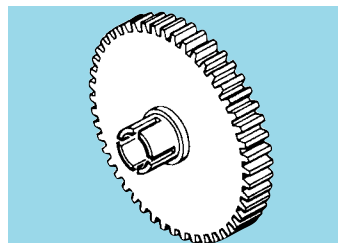
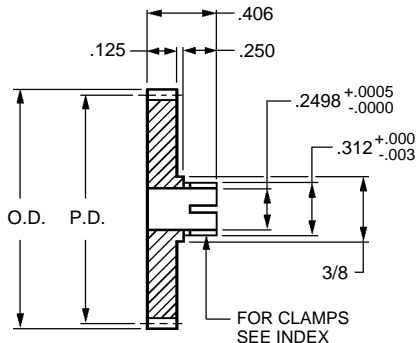
Clamp Type Spur Gears - 32 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1166Z-032S014	S1166Z-032A014	14	0.4375	0.500
S1166Z-032S018	S1166Z-032A018	18	0.5625	0.625
S1166Z-032S020	S1166Z-032A020	20	0.6250	0.688
S1166Z-032S024	S1166Z-032A024	24	0.7500	0.813
S1166Z-032S026	S1166Z-032A026	26	0.8125	0.875
S1166Z-032S028	S1166Z-032A028	28	0.8750	0.938
S1166Z-032S030	S1166Z-032A030	30	0.9375	1.000
S1166Z-032S032	S1166Z-032A032	32	1.0000	1.063
S1166Z-032S034	S1166Z-032A034	34	1.0625	1.125
S1166Z-032S036	S1166Z-032A036	36	1.1250	1.188
S1166Z-032S040	S1166Z-032A040	40	1.2500	1.313
S1166Z-032S042	S1166Z-032A042	42	1.3125	1.375
S1166Z-032S045	S1166Z-032A045	45	1.4063	1.469
S1166Z-032S048	S1166Z-032A048	48	1.5000	1.563
S1166Z-032S050	S1166Z-032A050	50	1.5625	1.625
S1166Z-032S056	S1166Z-032A056	56	1.7500	1.813
S1166Z-032S060	S1166Z-032A060	60	1.8750	1.938
S1166Z-032S064	S1166Z-032A064	64	2.0000	2.063
S1166Z-032S070	S1166Z-032A070	70	2.1875	2.250
S1166Z-032S072	S1166Z-032A072	72	2.2500	2.313
S1166Z-032S075	S1166Z-032A075	75	2.3438	2.406
S1166Z-032S076	S1166Z-032A076	76	2.3750	2.438
S1166Z-032S080	S1166Z-032A080	80	2.5000	2.563
S1166Z-032S088	S1166Z-032A088	88	2.7500	2.813
S1166Z-032S096	S1166Z-032A096	96	3.0000	3.063
S1166Z-032S112	S1166Z-032A112	112	3.5000	3.563
S1166Z-032S120	S1166Z-032A120	120	3.7500	3.813
S1166Z-032S127	S1166Z-032A127	127	3.9688	4.031
S1166Z-032S128	S1166Z-032A128	128	4.0000	4.063
S1166Z-032S132	S1166Z-032A132	132	4.1250	4.188

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



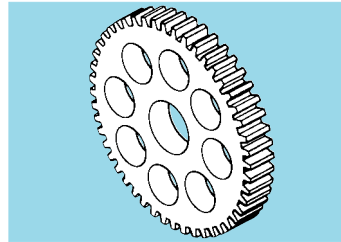
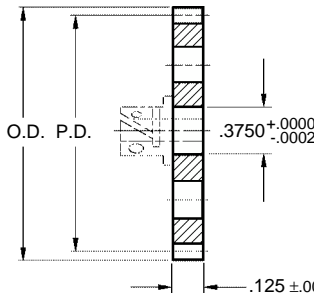
Hubless Spur Gears - 32 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.

- All gears over 2-1/8" diameter supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-032S019	S1268Z-032A019	19	0.5938	0.656
S1268Z-032S020	S1268Z-032A020	20	0.6250	0.688
S1268Z-032S024	S1268Z-032A024	24	0.7500	0.813
S1268Z-032S026	S1268Z-032A026	26	0.8125	0.875
S1268Z-032S028	S1268Z-032A028	28	0.8750	0.938
S1268Z-032S030	S1268Z-032A030	30	0.9375	1.000
S1268Z-032S032	S1268Z-032A032	32	1.0000	1.063
S1268Z-032S036	S1268Z-032A036	36	1.1250	1.188
S1268Z-032S040	S1268Z-032A040	40	1.2500	1.313
S1268Z-032S042	S1268Z-032A042	42	1.3125	1.375
S1268Z-032S044	S1268Z-032A044	44	1.3750	1.438
S1268Z-032S048	S1268Z-032A048	48	1.5000	1.563
S1268Z-032S050	S1268Z-032A050	50	1.5625	1.625
S1268Z-032S052	S1268Z-032A052	52	1.6250	1.688
S1268Z-032S054	S1268Z-032A054	54	1.6875	1.750
S1268Z-032S056	S1268Z-032A056	56	1.7500	1.813
S1268Z-032S060	S1268Z-032A060	60	1.8750	1.938
S1268Z-032S064	S1268Z-032A064	64	2.0000	2.063
S1268Z-032S066	S1268Z-032A066	66	2.0625	2.125
S1268Z-032S070	S1268Z-032A070	70	2.1875	2.250
S1268Z-032S072	S1268Z-032A072	72	2.2500	2.313
S1268Z-032S080	S1268Z-032A080	80	2.5000	2.563
S1268Z-032S084	S1268Z-032A084	84	2.6250	2.688
S1268Z-032S086	S1268Z-032A086	86	2.6875	2.750
S1268Z-032S088	S1268Z-032A088	88	2.7500	2.813
S1268Z-032S092	S1268Z-032A092	92	2.8750	2.938
S1268Z-032S096	S1268Z-032A096	96	3.0000	3.063
S1268Z-032S120	S1268Z-032A120	120	3.7500	3.813
S1268Z-032S128	S1268Z-032A128	128	4.0000	4.063
S1268Z-032S132	S1268Z-032A132	132	4.1250	4.188

*T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

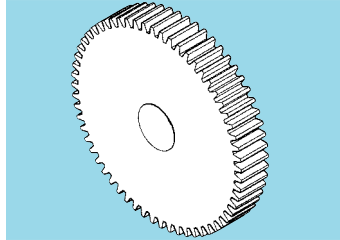
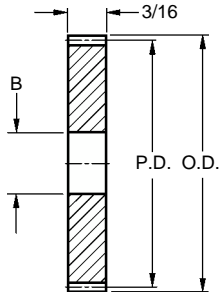


INCH

Hubless Spur Gears - 32 Pitch

■ 20° PRESSURE ANGLE

■ 3/16 FACE WIDTH



MATERIAL: Steel

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1C 1-Y32020A	20	.625	.688	1/4
A 1C 1-Y32024	24	.750	.813	
A 1C 1-Y32036A	36	1.125	1.188	5/16
A 1C 1-Y32036				3/8
A 1C 1-Y32040	40	1.250	1.313	5/16
A 1C 1-Y32052	52	1.625	1.688	3/8
A 1C 1-Y32056	56	1.750	1.813	5/16
A 1C 1-Y32056A				3/8
A 1C 1-Y32064	64	2.000	2.063	3/8
A 1C 1-Y32072	72	2.250	2.313	
A 1C 1-Y32080	80	2.500	2.563	
A 1C 1-Y32088	88	2.750	2.813	

For large quantity orders, discounts available.

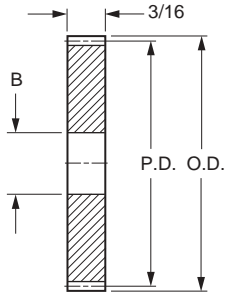


Hubless Spur Gears - 32 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° PRESSURE ANGLE

■ 3/16 FACE WIDTH



MATERIAL: Steel

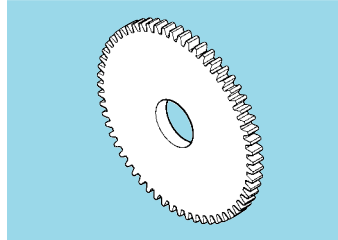
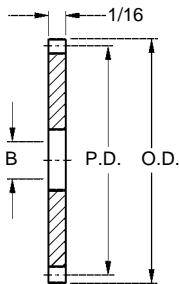
Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1C 1-N32016	16	.500	.563	3/16
A 1C 1-N32018	18	.563	.625	
A 1C 1-N32020	20	.625	.688	
A 1C 1-N32022	22	.688	.750	
A 1C 1-N32024	24	.750	.813	1/4
A 1C 1-N32024A	24	.750	.813	5/16
A 1C 1-N32026	26	.813	.875	1/4
A 1C 1-N32028	28	.875	.937	3/8
A 1C 1-N32030	30	.937	1.000	5/16
A 1C 1-N32030A	30	.937	1.000	3/8
A 1C 1-N32032	32	1.000	1.063	3/8
A 1C 1-N32036	36	1.125	1.188	5/16
A 1C 1-N32036A	36	1.125	1.188	3/8
A 1C 1-N32040	40	1.250	1.313	5/16
A 1C 1-N32044	44	1.375	1.438	5/16
A 1C 1-N32044A	44	1.375	1.438	3/8
A 1C 1-N32048	48	1.500	1.563	5/16
A 1C 1-N32052	52	1.625	1.688	3/8
A 1C 1-N32056	56	1.750	1.813	5/16
A 1C 1-N32056A	56	1.750	1.813	3/8
A 1C 1-N32060	60	1.875	1.938	
A 1C 1-N32064	64	2.000	2.063	
A 1C 1-N32072	72	2.250	2.313	
A 1C 1-N32080	80	2.500	2.563	3/8
A 1C 1-N32096	96	3.000	3.063	

Modifications of standard parts performed at nominal charge.

**INCH****Hubless Spur Gears - 32 Pitch**

■ 14-1/2° PRESSURE ANGLE

■ 1/16 FACE WIDTH



MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B 1-N32006	6	.188	.250	1/16
A 1B 1-N32008	8	.250	.313	1/8
A 1B 1-N32009	9	.281	.344	
A 1B 1-N32010	10	.313	.375	
A 1B 1-N32011	11	.344	.406	
A 1B 1-N32012	12	.375	.438	
A 1B 1-N32014	14	.438	.500	3/16
A 1B 1-N32015	15	.469	.531	
A 1B 1-N32016	16	.500	.563	
A 1B 1-N32018	18	.563	.625	
A 1B 1-N32020	20	.625	.688	
A 1B 1-N32024	24	.750	.813	1/4
A 1B 1-N32028	28	.875	.938	
A 1B 1-N32032	32	.938	1.063	
A 1B 1-N32040	40	1.250	1.313	5/16
A 1B 1-N32048	48	1.500	1.563	
A 1B 1-N32050	50	1.563	1.625	
A 1B 1-N32060	60	1.875	1.938	
A 1B 1-N32064	64	2.000	2.063	
A 1B 1-N32070	70	2.188	2.250	
A 1B 1-N32075	75	2.344	2.406	
A 1B 1-N32080	80	2.500	2.563	
A 1B 1-N32090	90	2.813	2.875	
A 1B 1-N32096	96	3.000	3.063	
A 1B 1-N32100	100	3.125	3.188	3/8
A 1B 1-N32112	112	3.500	3.563	
A 1B 1-N32120	120	3.750	3.813	
A 1B 1-N32128	128	4.000	4.063	
A 1B 1-N32144	144	4.500	4.563	

Sizes not shown in this catalog are available on special order.

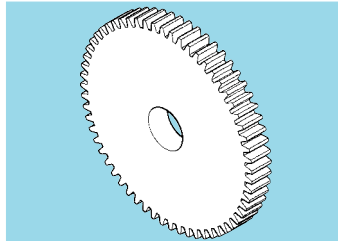
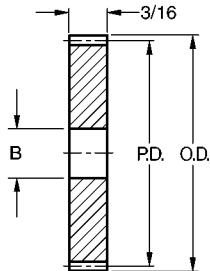


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Hubless Spur Gears - 32 Pitch

■ 14-1/2° PRESSURE ANGLE

■ 3/16 FACE WIDTH



MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B11-N32006	6	.188	.250	1/16
* A 1B11-N32007	7	.219	.281	3/32
A 1B11-N32008	8	.250	.313	1/8
A 1B11-N32009	9	.281	.344	
A 1B11-N32010	10	.313	.375	
A 1B11-N32011	11	.344	.406	
A 1B11-N32012	12	.375	.438	
* A 1B11-N32013	13	.406	.469	3/16
A 1B11-N32014	14	.438	.500	
A 1B11-N32015	15	.469	.531	
A 1B11-N32016	16	.500	.563	
A 1B11-N32018	18	.563	.625	
A 1B11-N32020	20	.625	.688	1/4
A 1B11-N32022	22	.688	.750	
A 1B11-N32024	24	.750	.813	
A 1B11-N32026	26	.813	.875	
A 1B11-N32028	28	.875	.938	
A 1B11-N32030	30	.938	1.000	5/16
A 1B11-N32032	32	1.000	1.063	
A 1B11-N32036	36	1.125	1.188	
A 1B11-N32040	40	1.250	1.313	
A 1B11-N32044	44	1.375	1.438	
A 1B11-N32048	48	1.500	1.563	5/16
A 1B11-N32056	56	1.750	1.813	

* To be discontinued when present stock is depleted.

Other bore sizes available on special order.

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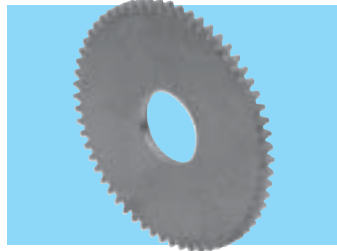
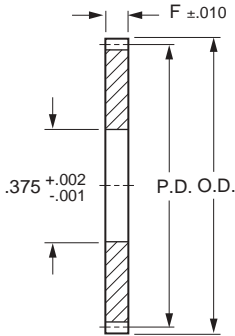
SDPSI Stamped Hubless Spur Gears - 32 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° PRESSURE ANGLE

■ 1/16 & 1/32 FACE

■ 3/8 BORE



MATERIAL: 5052-H32 Aluminum Alloy

Catalog Number*	No. of Teeth	P.D.	O.D.	F Face Width
A 1S 1-N32024	24	.750	.813	1/16
A 1S 1-N32025	25	.781	.844	
A 1S 1-N32026	26	.813	.875	
A 1S 1-N32028	28	.875	.938	
A 1S 1-N32030	30	.938	1.000	
A 1S 1-N32032	32	1.000	1.063	
A 1S 1-N32036	36	1.125	1.188	
A 1S 1-N32038	38	1.188	1.250	
A 1S 1-N32039	39	1.219	1.281	
A 1S 1-N32044	44	1.375	1.438	
A 1S 1-N32048	48	1.500	1.563	
A 1S 1-N32050	50	1.563	1.625	
A 1S 1-N32054	54	1.688	1.750	
A 1S 1-N32060	60	1.875	1.938	
A 1S 1-N32064	64	2.000	2.063	
A 1S 1-N32080	80	2.500	2.563	
A 1S 1-N32084	84	2.625	2.688	
A 1S 1-N32096	96	3.000	3.063	
A 1S 1-N32100	100	3.125	3.188	
A 1S 1-N32176	176	5.500	5.563	
A 1S11-N32024	24	.750	.813	1/32
A 1S11-N32031	31	.969	1.031	
A 1S11-N32036	36	1.125	1.188	
A 1S11-N32048	48	1.500	1.563	
A 1S11-N32072	72	2.250	2.313	
A 1S11-N32096	96	3.000	3.063	
Δ A 1S11-N32128	128	4.000	4.063	

Δ This gear has scalloped .375 Bore for staking.

* To be discontinued when present stock is depleted.

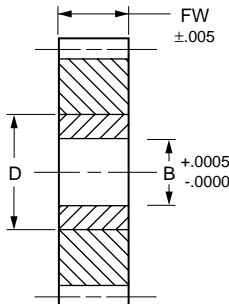
Please see "Gear Hubs" page for available hub sizes.



Hubless Composite Spur Gears - 32 Pitch

- AGMA Q9
- 20° PRESSURE ANGLE
- 1/4 & 3/8 FACES
- 3/8 & 1/2 BORES

INTECH Power-Core™

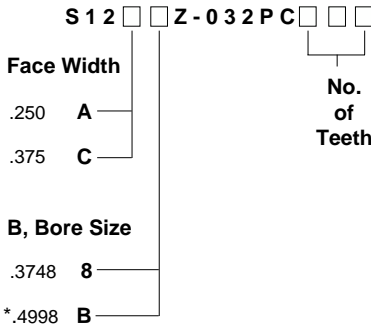


FEATURES:

- Self-lubricating
- Quiet operation
- Precision hobbed & machined
- Integral metal core
- Dimensionally stable against moisture
- High torque transmission
- Lightweight
- Shock-absorbent
- Noncorrodible

MATERIAL: Gear- Cast Nylon 12 (PA12G)
Knurled Core - 303 Stainless Steel

CATALOG NUMBER DESIGNATION:



* Only available with 48 to 128 teeth

No. of Teeth	P.D.	O.D.	D Core Dia.
28	.8750	.938	.630
30	.9375	1.000	.630
32	1.0000	1.063	.630
36	1.1250	1.188	.787
40	1.2500	1.313	.787
48	1.5000	1.563	.787
56	1.7500	1.813	.984
60	1.8750	1.938	.984
64	2.0000	2.063	1.181
72	2.2500	2.313	1.181
80	2.5000	2.563	1.378
96	3.0000	3.063	1.575
112	3.5000	3.563	1.575
128	4.0000	4.063	1.969

Example:

S12ABZ-032PC072 is a .250 Face, .4998 Bore, 32 Pitch Hubless Spur Gear with 72 Teeth.

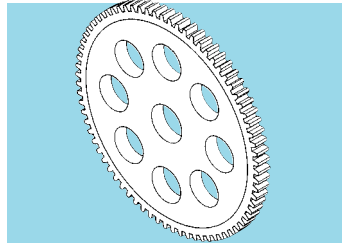
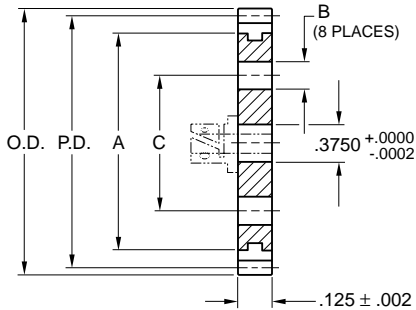
NOTE: Other face widths, number of teeth, bore diameters and carbon steel core available on special order.

See pages 1-6 thru 1-8 for technical data on Power-Core™ material.



Aluminum-Acetal Gears - 32 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/8 BORE



MATERIAL: Core – Aluminum 2024-T3, Chemical Filmed
Rim – Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	A Dia.	B Dia.	C Dia.
S1268Z-032M028	28	0.8750	0.938	5/8	—	—
S1268Z-032M032	32	1.0000	1.063			
S1268Z-032M035	35	1.0938	1.156	7/8		
S1268Z-032M036	36	1.1250	1.188			
S1268Z-032M040	40	1.2500	1.313			
S1268Z-032M042	42	1.3125	1.375	1-1/8		
S1268Z-032M045	45	1.4063	1.469			
S1268Z-032M048	48	1.5000	1.563			
S1268Z-032M050	50	1.5625	1.625	1-3/8		
S1268Z-032M055	55	1.7188	1.781			
S1268Z-032M060	60	1.8750	1.938	1-5/8	7/32	13/16
S1268Z-032M064	64	2.0000	2.063			
S1268Z-032M065	65	2.0313	2.094			
S1268Z-032M070	70	2.1875	2.250	1-7/8	5/16	1-3/32
S1268Z-032M072	72	2.2500	2.313			
S1268Z-032M075	75	2.3438	2.406	2-1/8	3/8	1-3/8
S1268Z-032M080	80	2.5000	2.563	2-1/8		
S1268Z-032M085	85	2.6563	2.719	2-3/8		
S1268Z-032M090	90	2.8125	2.875	2-5/8		1-3/4
S1268Z-032M096	96	3.0000	3.063	2-5/8		
S1268Z-032M112	112	3.5000	3.563	3-1/8		
S1268Z-032M128	128	4.0000	4.063	3-5/8		

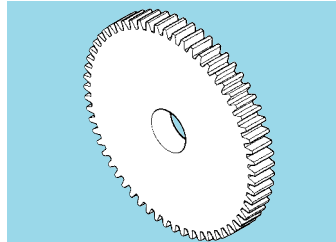
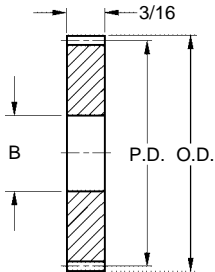
See Index for hubs. Assembled upon request at a nominal charge.

Available on special order: 14-1/2° P.A., teeth not listed, different bore and/or materials.

**INCH****Molded Hubless Spur Gears - 32 Pitch**

■ 14-1/2° PRESSURE ANGLE

■ 3/16 FACE WIDTH

**MATERIAL:** Nylon 101

Catalog Number	No. of Teeth	P.D.	O.D. Ref.	B Bore
A 1N 1-N32012	12	.375	.44	1/8
A 1N 1-N32014	14	.438	.50	
A 1N 1-N32016	16	.500	.56	3/16
A 1N 1-N32018	18	.563	.63	
A 1N 1-N32020	20	.625	.69	
A 1N 1-N32024	24	.750	.81	
A 1N 1-N32028	28	.875	.94	1/4
A 1N 1-N32032	32	1.000	1.06	
A 1N 1-N32036	36	1.125	1.19	
A 1N 1-N32038	38	1.188	1.25	
A 1N 1-N32040	40	1.250	1.31	
A 1N 1-N32044	44	1.375	1.44	
A 1N 1-N32048	48	1.500	1.56	1/4
A 1N 1-N32052	52	1.625	1.69	
A 1N 1-N32056	56	1.750	1.81	
A 1N 1-N32062	62	1.938	2.00	

Other bore sizes available on special order.



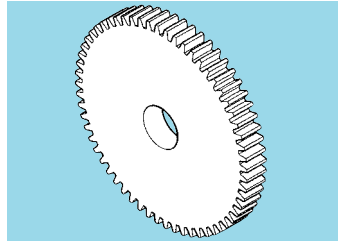
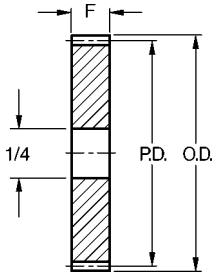
INCH

Nonmetallic Hubless Spur Gears - 32 Pitch

■ 14-1/2° PRESSURE ANGLE

■ MACHINED

■ 1/4 BORE



MATERIAL: Bakelite
250°F - Maximum Temperature

Catalog Number	No. of Teeth	P.D.	O.D.	F Face Width
A 1P 1-N32016	16	.500	.563	5/16
A 1P 1-N32064	64	2.000	2.063	
A 1P 1-N32072	72	2.250	2.313	3/16
A 1P 1-N32112	112	3.500	3.563	

NOTE: To be discontinued when present stock is depleted.

Did You Know?

... That pricing for any component in this catalog is available through the Sales Department? Simply call, fax or write in your request for a quote for any component that you think you might want to use in your design.

CALL: 516-328-3300 or FAX: 516-326-8827

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .236 & .313 FACE WIDTH

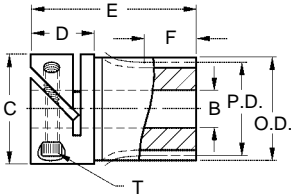


Fig. 1

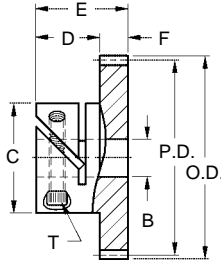
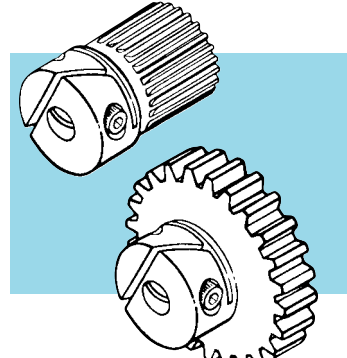


Fig. 2

NOTE: Socket Head Cap Screw Supplied.



MATERIAL: 303 Stainless Steel

Catalog Number	Fig. No.	No. of Teeth	P.D.	O.D.	B Bore +.0005 -.0000	F	E	C	D	T	Hub Clear. Rad.
S1VS24-014F2016	1	14	0.5833	0.667	.2498	.313	1.000	.669	.394	#2-56	.445
S1VS24-015F2016		15	0.6250	0.708							
S1VS24-016F2016		16	0.6667	0.750							
S1VS24-018F2016		18	0.7500	0.833							
S1VS24-020F1516	2	20	0.8333	0.917	.2498	.236	.630	.669	.394	#2-56	.445
S1VS24-024F1516		24	1.0000	1.083							
S1VS24-025F1516		25	1.0417	1.125							
S1VS24-028F1516		28	1.1667	1.250							
S1VS24-030F1516		30	1.2500	1.333							
S1VS24-032F1516		32	1.3333	1.417							
S1VS24-036F1516		36	1.5000	1.583							
S1VS24-040F1516		40	1.6667	1.750							
S1VS24-045F1524	2	45	1.8750	1.958	.3747	.236	.787	.945	.551	#6-32	.551
S1VS24-048F1524		48	2.0000	2.083							
S1VS24-050F1524		50	2.0833	2.167							
S1VS24-056F1524		56	2.3333	2.417							
S1VS24-060F1524		60	2.5000	2.583							
S1VS24-064F1524		64	2.6667	2.750							
S1VS24-070F1524		70	2.9167	3.000							
S1VS24-072F1524		72	3.0000	3.083							
S1VS24-080F1524		80	3.3333	3.417							
S1VS24-090F1524		90	3.7500	3.833							
S1VS24-100F1524	100	4.1667	4.250								

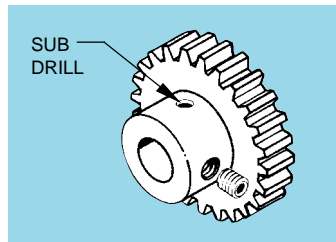
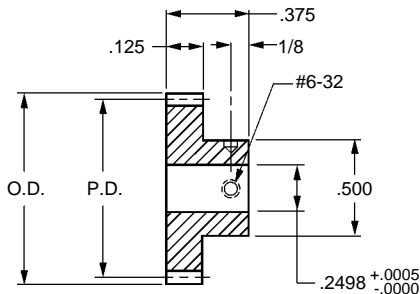
Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE

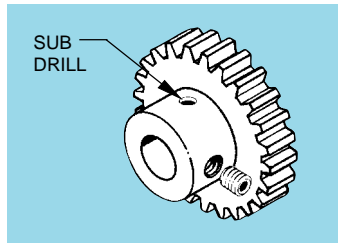
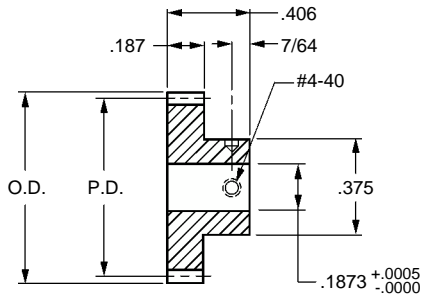

S Precision
Component

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1066Z-024S012	S1066Z-024A012	12	0.5000	0.583
S1066Z-024S015	S1066Z-024A015	15	0.6250	0.708
S1066Z-024S016	S1066Z-024A016	16	0.6667	0.750
S1066Z-024S018	S1066Z-024A018	18	0.7500	0.833
S1066Z-024S020	S1066Z-024A020	20	0.8333	0.917
S1066Z-024S021	S1066Z-024A021	21	0.8750	0.958
S1066Z-024S022	S1066Z-024A022	22	0.9167	1.000
S1066Z-024S024	S1066Z-024A024	24	1.0000	1.083
S1066Z-024S027	S1066Z-024A027	27	1.1250	1.208
S1066Z-024S030	S1066Z-024A030	30	1.2500	1.333
S1066Z-024S033	S1066Z-024A033	33	1.3750	1.458
S1066Z-024S036	S1066Z-024A036	36	1.5000	1.583
S1066Z-024S039	S1066Z-024A039	39	1.6250	1.708
S1066Z-024S042	S1066Z-024A042	42	1.7500	1.833
S1066Z-024S045	S1066Z-024A045	45	1.8750	1.958
S1066Z-024S048	S1066Z-024A048	48	2.0000	2.083
S1066Z-024S054	S1066Z-024A054	54	2.2500	2.333
S1066Z-024S060	S1066Z-024A060	60	2.5000	2.583
S1066Z-024S066	S1066Z-024A066	66	2.7500	2.833
S1066Z-024S069	S1066Z-024A069	69	2.8750	2.958
S1066Z-024S072	S1066Z-024A072	72	3.0000	3.083
S1066Z-024S075	S1066Z-024A075	75	3.1250	3.208
S1066Z-024S078	S1066Z-024A078	78	3.2500	3.333
S1066Z-024S081	S1066Z-024A081	81	3.3750	3.458
S1066Z-024S084	S1066Z-024A084	84	3.5000	3.583
S1066Z-024S087	S1066Z-024A087	87	3.6250	3.708
S1066Z-024S090	S1066Z-024A090	90	3.7500	3.833
S1066Z-024S093	S1066Z-024A093	93	3.8750	3.958
S1066Z-024S096	S1066Z-024A096	96	4.0000	4.083
S1066Z-024S099	S1066Z-024A099	99	4.1250	4.208

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16 BORE




Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1084Z-024S010	S1084Z-024A010	10	0.4167	0.500
S1084Z-024S012	S1084Z-024A012	12	0.5000	0.583
S1084Z-024S014	S1084Z-024A014	14	0.5833	0.667
S1084Z-024S015	S1084Z-024A015	15	0.6250	0.708
S1084Z-024S016	S1084Z-024A016	16	0.6667	0.750
S1084Z-024S018	S1084Z-024A018	18	0.7500	0.833
S1084Z-024S020	S1084Z-024A020	20	0.8333	0.917
S1084Z-024S021	S1084Z-024A021	21	0.8750	0.958
S1084Z-024S022	S1084Z-024A022	22	0.9167	1.000
S1084Z-024S024	S1084Z-024A024	24	1.0000	1.083
S1084Z-024S028	S1084Z-024A028	28	1.1667	1.250
S1084Z-024S030	S1084Z-024A030	30	1.2500	1.333
S1084Z-024S032	S1084Z-024A032	32	1.3333	1.417
S1084Z-024S036	S1084Z-024A036	36	1.5000	1.583
S1084Z-024S042	S1084Z-024A042	42	1.7500	1.833
S1084Z-024S044	S1084Z-024A044	44	1.8333	1.917
S1084Z-024S048	S1084Z-024A048	48	2.0000	2.083
S1084Z-024S050	S1084Z-024A050	50	2.0833	2.167
S1084Z-024S054	S1084Z-024A054	54	2.2500	2.333
S1084Z-024S056	S1084Z-024A056	56	2.3333	2.417
S1084Z-024S060	S1084Z-024A060	60	2.5000	2.583
S1084Z-024S064	S1084Z-024A064	64	2.6667	2.750
S1084Z-024S068	S1084Z-024A068	68	2.8333	2.917
S1084Z-024S072	S1084Z-024A072	72	3.0000	3.083
S1084Z-024S078	S1084Z-024A078	78	3.2500	3.333
S1084Z-024S080	S1084Z-024A080	80	3.3333	3.417
S1084Z-024S084	S1084Z-024A084	84	3.5000	3.583
S1084Z-024S090	S1084Z-024A090	90	3.7500	3.833
S1084Z-024S096	S1084Z-024A096	96	4.0000	4.083
S1084Z-024S098	S1084Z-024A098	98	4.0833	4.167

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

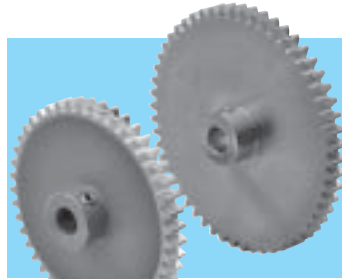
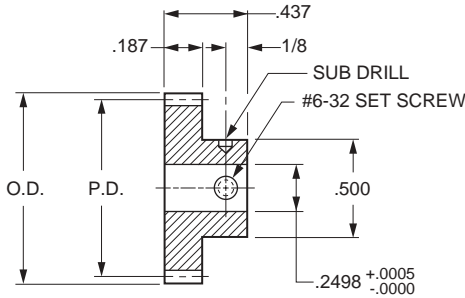
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Spur Gears - 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1086Z-024S012	S1086Z-024A012	12 ^Δ	.5000	.583
S1086Z-024S015	S1086Z-024A015	15	.6250	.708
S1086Z-024S016	S1086Z-024A016	16	.6667	.750
S1086Z-024S018	S1086Z-024A018	18	.7500	.833
S1086Z-024S020	S1086Z-024A020	20	.8333	.917
S1086Z-024S021	S1086Z-024A021	21	.8750	.958
S1086Z-024S022	S1086Z-024A022	22	.9167	1.000
S1086Z-024S024	S1086Z-024A024	24	1.0000	1.083
S1086Z-024S027	S1086Z-024A027	27	1.1250	1.208
S1086Z-024S030	S1086Z-024A030	30	1.2500	1.333
S1086Z-024S033	S1086Z-024A033	33	1.3750	1.458
S1086Z-024S036	S1086Z-024A036	36	1.5000	1.583
S1086Z-024S039	S1086Z-024A039	39	1.6250	1.708
S1086Z-024S042	S1086Z-024A042	42	1.7500	1.833
S1086Z-024S045	S1086Z-024A045	45	1.8750	1.958
S1086Z-024S048	S1086Z-024A048	48	2.0000	2.083
S1086Z-024S051	S1086Z-024A051	51	2.1250	2.208
S1086Z-024S054	S1086Z-024A054	54	2.2500	2.333
S1086Z-024S060	S1086Z-024A060	60	2.5000	2.583
S1086Z-024S066	S1086Z-024A066	66	2.7500	2.833
S1086Z-024S069	S1086Z-024A069	69	2.8750	2.958
S1086Z-024S072	S1086Z-024A072	72	3.0000	3.083
S1086Z-024S075	S1086Z-024A075	75	3.1250	3.208
S1086Z-024S078	S1086Z-024A078	78	3.2500	3.333
S1086Z-024S081	S1086Z-024A081	81	3.3750	3.458
S1086Z-024S084	S1086Z-024A084	84	3.5000	3.583
S1086Z-024S087	S1086Z-024A087	87	3.6250	3.708
S1086Z-024S090	S1086Z-024A090	90	3.7500	3.833
S1086Z-024S093	S1086Z-024A093	93	3.8750	3.958
S1086Z-024S096	S1086Z-024A096	96	4.0000	4.083
S1086Z-024S099	S1086Z-024A099	99	4.1250	4.208

* T4 or T351 Aluminum Alloy, anodized before cutting.

^ΔHob cuts into hub. Hub diameter never exceeds gear O.D.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for Stainless Steel.

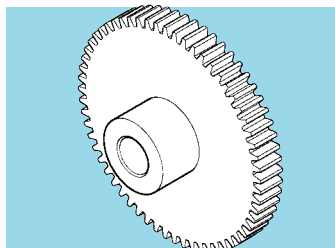
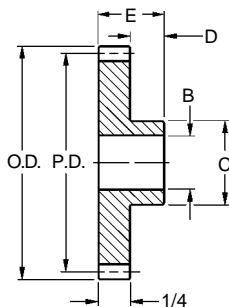


INCH

Spur Gears - 24 Pitch

■ 14-1/2° PRESSURE ANGLE

■ 1/4 FACE WIDTH



MATERIAL: Steel

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	E Length	C Hub Dia.	D Hub Proj.
A 1C 2-N24012	12	.500	.583			3/8	
A 1C 2-N24012A	12	.500	.583			25/64	
A 1C 2-N24014	14	.583	.667	1/4	9/16	15/32	5/16
A 1C 2-N24015	15	.625	.708			1/2	
A 1C 2-N24016	16	.667	.750	5/16		35/64	
A 1C 2-N24018	18	.750	.833	1/4	9/16	5/8	5/16
A 1C 2-N24018A	18	.750	.833	5/16		5/8	
A 1C 2-N24019	19	.792	.875	5/16	9/16	21/32	5/16
A 1C 2-N24020	20	.833	.917			23/32	
A 1C 2-N24021	21	.875	.958	3/8	9/16	3/4	5/16
A 1C 2-N24022	22	.917	1.000			25/32	
A 1C 2-N24024	24	1.000	1.083				
A 1C 2-N24026	26	1.083	1.167	3/8	5/8	7/8	3/8
A 1C 2-N24027	27	1.125	1.208				
A 1C 2-N24028	28	1.167	1.250	3/8	5/8	1	3/8
A 1C 2-N24030	30	1.250	1.333				
A 1C 2-N24032	32	1.333	1.417				
A 1C 2-N24033	33	1.375	1.458				
A 1C 2-N24036	36	1.500	1.583	3/8	5/8	1-1/8	3/8
A 1C 2-N24039	39	1.625	1.708				
A 1C 2-N24040	40	1.667	1.750				
A 1C 2-N24042	42	1.750	1.833				
A 1C 2-N24045	45	1.875	1.958				
A 1C 2-N24048	48	2.000	2.083				
A 1C 2-N24054	54	2.250	2.333	3/8	5/8	1-1/4	3/8
A 1C 2-N24056	56	2.333	2.417				
A 1C 2-N24060	60	2.500	2.583				
A 1C 2-N24064	64	2.667	2.750	1/2	5/8	1-3/8	3/8
A 1C 2-N24070	70	2.917	3.000				
A 1C 2-N24072	72	3.000	3.083	1/2	3/4	1-3/8	1/2
A 1C 2-N24084	84	3.500	3.583			1-1/2	
A 1C 2-N24096	96	4.000	4.083		21/32	1-1/2	13/32
* A 1C 2-N24120	120	5.000	5.083	1/2	3/4	1-1/2	1/2
Δ A 1C 2-N24144S	144	6.000	6.083		7/8	2	17/32

* These gears may have inserted hubs. Δ Only available with 1/4-20 set screw.

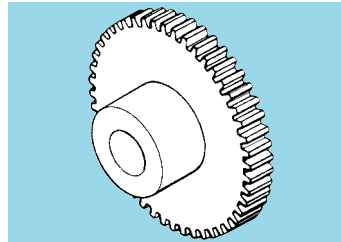
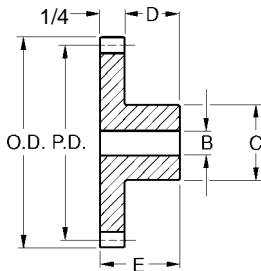


INCH

Spur Gears - 24 Pitch

■ 14-1/2° PRESSURE ANGLE

■ 1/4 FACE WIDTH



MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	E Length	C Hub Dia.	D Hub Proj.
A 1B 2-N24011	11	.458	.542	1/8	1/2	11/32	1/4
A 1B 2-N24012	12	.500	.583	3/16	1/2	3/8	1/4
A 1B 2-N24014	14	.583	.667		1/2	1/2	1/4
A 1B 2-N24016	16	.667	.750	1/4	1/2	1/2	1/4
A 1B 2-N24018	18	.750	.833		1/2	1/2	1/4
A 1B 2-N24020	20	.833	.917	1/4	1/2	5/8	1/4
A 1B 2-N24021	21	.875	.958		1/2	5/8	1/4
A 1B 2-N24024	24	1.000	1.083	1/4	1/2	5/8	1/4
A 1B 2-N24027	27	1.125	1.208		1/2	5/8	1/4
A 1B 2-N24028	28	1.167	1.250	1/4	1/2	5/8	1/4
A 1B 2-N24030	30	1.250	1.333		1/2	5/8	1/4
A 1B 2-N24032	32	1.333	1.417	1/4	1/2	5/8	1/4
A 1B 2-N24036	36	1.500	1.583		1/2	5/8	1/4
A 1B 2-N24040	40	1.667	1.750	1/4	1/2	5/8	1/4
A 1B 2-N24042	42	1.750	1.833		1/2	5/8	1/4
A 1B 2-N24042A	42	1.750	1.833	5/16	1/2	11/16	1/4
A 1B 2-N24044	44	1.833	1.917		1/2	5/8	1/4
A 1B 2-N24048	48	2.000	2.083	5/16	9/16	11/16	5/16
A 1B 2-N24052	52	2.167	2.250		9/16	11/16	5/16
A 1B 2-N24054	54	2.250	2.333	3/8	9/16	3/4	5/16
A 1B 2-N24056	56	2.333	2.417		9/16	11/16	5/16
A 1B 2-N24060	60	2.500	2.583	3/8	9/16	3/4	5/16
A 1B 2-N24066	66	2.750	2.833		9/16	3/4	5/16
A 1B 2-N24072	72	3.000	3.083	5/16	9/16	3/4	5/16
A 1B 2-N24080	80	3.333	3.417	5/16	9/16	3/4	5/16
A 1B 2-N24084	84	3.500	3.583	3/8	9/16	3/4	5/16
A 1B 2-N24096A	96	4.000	4.083		9/16	3/4	5/16
A 1B 2-N24108A	108	4.500	4.583	5/16	5/8	7/8	3/8
A 1B 2-N24120A	120	5.000	5.083		5/8	7/8	3/8
A 1B 2-N24128	128	5.333	5.417	5/16	5/8	7/8	3/8
A 1B 2-N24144A	144	6.000	6.083	3/8	5/8	7/8	3/8
A 1B 2-N24156	156	6.500	6.583	5/16	9/16	1-1/8	5/16
A 1B 2-N24168	168	7.000	7.083	1/2	3/4	1-1/8	1/2

NOTE: Gears may be solid, webbed or spoked depending on the size.



Fairloc® Hub Acetal Spur Gears - 24 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

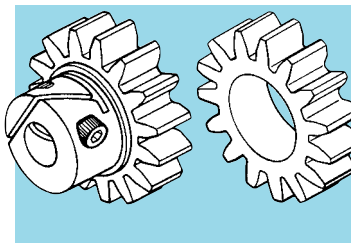
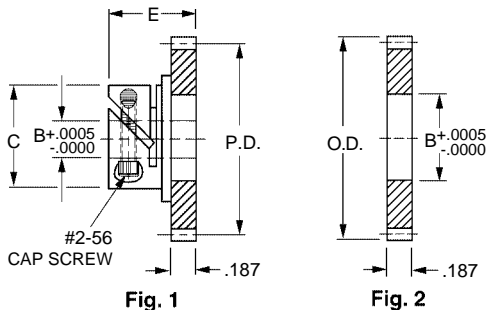


Fig. 1	Bore Ref.	C	E
	.1873	.438	.453
	.2498	.530	.483

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1V84Z-024DS015	S1V86Z-024DS015	S1288Z-024D015	15	.6250	.708
S1V84Z-024DS016	S1V86Z-024DS016	S1288Z-024D016	16	.6667	.750
S1V84Z-024DS017	S1V86Z-024DS017	S1288Z-024D017	17	.7083	.792
S1V84Z-024DS018	S1V86Z-024DS018	S1288Z-024D018	18	.7500	.833
S1V84Z-024DS019	S1V86Z-024DS019	S1288Z-024D019	19	.7917	.875
S1V84Z-024DS020	S1V86Z-024DS020	S1288Z-024D020	20	.8333	.917
S1V84Z-024DS021	S1V86Z-024DS021	S1288Z-024D021	21	.8750	.958
S1V84Z-024DS022	S1V86Z-024DS022	S1288Z-024D022	22	.9167	1.000
S1V84Z-024DS023	S1V86Z-024DS023	S1288Z-024D023	23	.9583	1.042
S1V84Z-024DS024	S1V86Z-024DS024	S1288Z-024D024	24	1.0000	1.083
S1V84Z-024DS025	S1V86Z-024DS025	S1288Z-024D025	25	1.0417	1.125
S1V84Z-024DS028	S1V86Z-024DS028	S1288Z-024D028	28	1.1667	1.250
S1V84Z-024DS030	S1V86Z-024DS030	S1288Z-024D030	30	1.2500	1.333
S1V84Z-024DS032	S1V86Z-024DS032	S1288Z-024D032	32	1.3333	1.417
S1V84Z-024DS033	S1V86Z-024DS033	S1288Z-024D033	33	1.3750	1.458
S1V84Z-024DS036	S1V86Z-024DS036	S1288Z-024D036	36	1.5000	1.583
S1V84Z-024DS040	S1V86Z-024DS040	S1288Z-024D040	40	1.6667	1.750
S1V84Z-024DS042	S1V86Z-024DS042	S1288Z-024D042	42	1.7500	1.833
S1V84Z-024DS045	S1V86Z-024DS045	S1288Z-024D045	45	1.8750	1.958
S1V84Z-024DS046	S1V86Z-024DS046	S1288Z-024D046	46	1.9167	2.000
S1V84Z-024DS048	S1V86Z-024DS048	S1288Z-024D048	48	2.0000	2.083
S1V84Z-024DS050	S1V86Z-024DS050	S1288Z-024D050	50	2.0833	2.167
S1V84Z-024DS052	S1V86Z-024DS052	S1288Z-024D052	52	2.1667	2.250
S1V84Z-024DS055	S1V86Z-024DS055	S1288Z-024D055	55	2.2917	2.375
S1V84Z-024DS056	S1V86Z-024DS056	S1288Z-024D056	56	2.3333	2.417
S1V84Z-024DS057	S1V86Z-024DS057	S1288Z-024D057	57	2.3750	2.458
S1V84Z-024DS060	S1V86Z-024DS060	S1288Z-024D060	60	2.5000	2.583
S1V84Z-024DS064	S1V86Z-024DS064	S1288Z-024D064	64	2.6667	2.750
S1V84Z-024DS066	S1V86Z-024DS066	S1288Z-024D066	66	2.7500	2.833
S1V84Z-024DS069	S1V86Z-024DS069	S1288Z-024D069	69	2.8750	2.958
S1V84Z-024DS072	S1V86Z-024DS072	S1288Z-024D072	72	3.0000	3.083
S1V84Z-024DS078	S1V86Z-024DS078	S1288Z-024D078	78	3.2500	3.333
S1V84Z-024DS084	S1V86Z-024DS084	S1288Z-024D084	84	3.5000	3.583
S1V84Z-024DS090	S1V86Z-024DS090	S1288Z-024D090	90	3.7500	3.833
S1V84Z-024DS093	S1V86Z-024DS093	S1288Z-024D093	93	3.8750	3.958

Available on special order: 14-1/2° P.A., teeth not listed or different bore size.
This product is also available with pin type hubs. See page 1-128.

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 3/16, 1/4 & 3/8 BORES

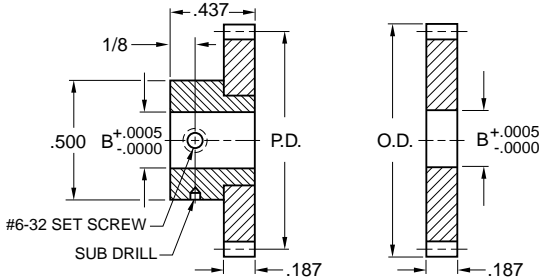
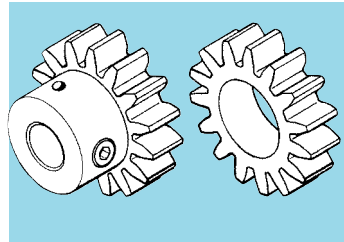


Fig. 1

Fig. 2



MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel



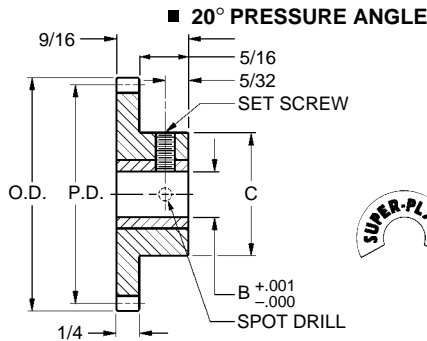
Catalog Number			No. of Teeth	P.D.	O.D.
PIN TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
B = ø.1873	B = ø.2498	B = ø.3750			
S1084Z-024DS015	S1086Z-024DS015	S1288Z-024D015	15	.6250	.708
S1084Z-024DS016	S1086Z-024DS016	S1288Z-024D016	16	.6667	.750
S1084Z-024DS017	S1086Z-024DS017	S1288Z-024D017	17	.7083	.792
S1084Z-024DS018	S1086Z-024DS018	S1288Z-024D018	18	.7500	.833
S1084Z-024DS019	S1086Z-024DS019	S1288Z-024D019	19	.7917	.875
S1084Z-024DS020	S1086Z-024DS020	S1288Z-024D020	20	.8333	.917
S1084Z-024DS021	S1086Z-024DS021	S1288Z-024D021	21	.8750	.958
S1084Z-024DS022	S1086Z-024DS022	S1288Z-024D022	22	.9167	1.000
S1084Z-024DS023	S1086Z-024DS023	S1288Z-024D023	23	.9583	1.042
S1084Z-024DS024	S1086Z-024DS024	S1288Z-024D024	24	1.0000	1.083
S1084Z-024DS025	S1086Z-024DS025	S1288Z-024D025	25	1.0417	1.125
S1084Z-024DS028	S1086Z-024DS028	S1288Z-024D028	28	1.1667	1.250
S1084Z-024DS030	S1086Z-024DS030	S1288Z-024D030	30	1.2500	1.333
S1084Z-024DS032	S1086Z-024DS032	S1288Z-024D032	32	1.3333	1.417
S1084Z-024DS033	S1086Z-024DS033	S1288Z-024D033	33	1.3750	1.458
S1084Z-024DS036	S1086Z-024DS036	S1288Z-024D036	36	1.5000	1.583
S1084Z-024DS040	S1086Z-024DS040	S1288Z-024D040	40	1.6667	1.750
S1084Z-024DS042	S1086Z-024DS042	S1288Z-024D042	42	1.7500	1.833
S1084Z-024DS045	S1086Z-024DS045	S1288Z-024D045	45	1.8750	1.958
S1084Z-024DS046	S1086Z-024DS046	S1288Z-024D046	46	1.9167	2.000
S1084Z-024DS048	S1086Z-024DS048	S1288Z-024D048	48	2.0000	2.083
S1084Z-024DS050	S1086Z-024DS050	S1288Z-024D050	50	2.0833	2.167
S1084Z-024DS052	S1086Z-024DS052	S1288Z-024D052	52	2.1667	2.250
S1084Z-024DS055	S1086Z-024DS055	S1288Z-024D055	55	2.2917	2.375
S1084Z-024DS056	S1086Z-024DS056	S1288Z-024D056	56	2.3333	2.417
S1084Z-024DS057	S1086Z-024DS057	S1288Z-024D057	57	2.3750	2.458
S1084Z-024DS060	S1086Z-024DS060	S1288Z-024D060	60	2.5000	2.583
S1084Z-024DS064	S1086Z-024DS064	S1288Z-024D064	64	2.6667	2.750
S1084Z-024DS066	S1086Z-024DS066	S1288Z-024D066	66	2.7500	2.833
S1084Z-024DS069	S1086Z-024DS069	S1288Z-024D069	69	2.8750	2.958
S1084Z-024DS072	S1086Z-024DS072	S1288Z-024D072	72	3.0000	3.083
S1084Z-024DS078	S1086Z-024DS078	S1288Z-024D078	78	3.2500	3.333
S1084Z-024DS084	S1086Z-024DS084	S1288Z-024D084	84	3.5000	3.583
S1084Z-024DS090	S1086Z-024DS090	S1288Z-024D090	90	3.7500	3.833
S1084Z-024DS093	S1086Z-024DS093	S1288Z-024D093	93	3.8750	3.958

Available on special order: 14-1/2° P.A., teeth not listed, or different bore size.

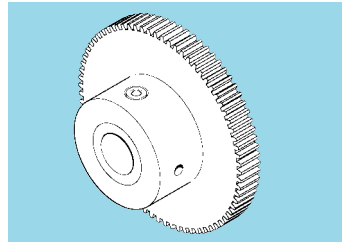
This product is also available with Fairloc® hubs. See page 1-127.



Molded Spur Gears - 24 Pitch



■ 1/4 FACE



MATERIAL: Gear - Acetal
Insert - Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	C Hub Dia.	Set Screw	Type		
A 1T 2-Y24012	12	.500	.583	3/16	3/8	#4-40	Plain		
A 1T 2-Y24014	14	.583	.667		7/16				
A 1T 2-Y24015	15	.625	.708		31/64				
A 1T 2-Y24016	16	.667	.750						
A 1T 2-Y24017	17	.708	.792		35/64				
A 1T 2-Y24018	18	.750	.833						
A 1T 2-Y24019	19	.792	.875						
A 1T 2-Y24020	20	.833	.917						
A 1T 2-Y24021	21	.875	.958						
A 1T 2-Y24022	22	.917	1.000						
A 1T 2-Y24023	23	.958	1.042						
A 1T 2-Y24024	24	1.000	1.083	1/4		5/8	#6-32	Web	
A 1T 2-Y24025	25	1.042	1.125		39/64				
A 1T 2-Y24026	26	1.083	1.167		5/8				
A 1T 2-Y24027	27	1.125	1.208						
A 1T 2-Y24028	28	1.167	1.250		39/64				
A 1T 2-Y24030	30	1.250	1.333						
A 1T 2-Y24032	32	1.333	1.417		5/8				
A 1T 2-Y24033	33	1.375	1.458						
A 1T 2-Y24034	34	1.417	1.500		5/16	43/64			#8-32
A 1T 2-Y24036	36	1.500	1.583						
A 1T 2-Y24039	39	1.625	1.708						
A 1T 2-Y24040	40	1.667	1.750						
A 1T 2-Y24042	42	1.750	1.833						
A 1T 2-Y24044	44	1.833	1.917						
A 1T 2-Y24045	45	1.875	1.958						
A 1T 2-Y24048	48	2.000	2.083						
A 1T 2-Y24050	50	2.083	2.167						
A 1T 2-Y24052	52	2.167	2.250						
A 1T 2-Y24054	54	2.250	2.333						
A 1T 2-Y24056	56	2.333	2.417						
A 1T 2-Y24060	60	2.500	2.583						

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

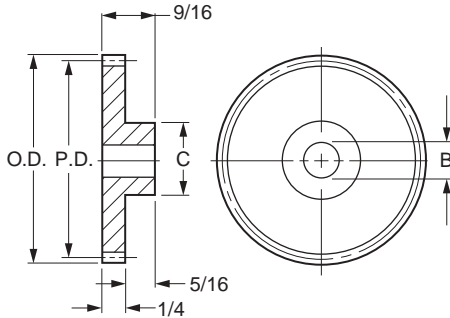
SDPSI

Molded Spur Gears - 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 20° PRESSURE ANGLE

■ 1/4 FACE



MATERIAL: Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore	C Hub Dia.	Type
A 1M 2-Y24012	12	.500	.583	3/16	3/8	Plain
A 1M 2-Y24014	14	.583	.667		7/16	
A 1M 2-Y24015	15	.625	.708		31/64	
A 1M 2-Y24016	16	.667	.750			
A 1M 2-Y24017	17	.708	.792		35/64	
A 1M 2-Y24018	18	.750	.833			
A 1M 2-Y24019	19	.792	.875			
A 1M 2-Y24020	20	.833	.917			
A 1M 2-Y24021	21	.875	.958			
A 1M 2-Y24022	22	.917	1.000			
A 1M 2-Y24023	23	.958	1.042			
A 1M 2-Y24024	24	1.000	1.083	1/4		5/8
A 1M 2-Y24025	25	1.042	1.125		39/64	
A 1M 2-Y24026	26	1.083	1.167		5/8	
A 1M 2-Y24027	27	1.125	1.208			
A 1M 2-Y24028	28	1.167	1.250			
A 1M 2-Y24030	30	1.250	1.333			
A 1M 2-Y24032	32	1.333	1.417		39/64	
A 1M 2-Y24033	33	1.375	1.458			
A 1M 2-Y24034	34	1.417	1.500			
A 1M 2-Y24036	36	1.500	1.583			
*A 1M 2-Y24036A				5/16	43/64	
A 1M 2-Y24039	39	1.625	1.708			
A 1M 2-Y24040	40	1.667	1.750			
A 1M 2-Y24042	42	1.750	1.833			
A 1M 2-Y24044	44	1.833	1.917			
A 1M 2-Y24045	45	1.875	1.958			
A 1M 2-Y24048	48	2.000	2.083			
A 1M 2-Y24050	50	2.083	2.167			
A 1M 2-Y24052	52	2.167	2.250			
A 1M 2-Y24054	54	2.250	2.333			
A 1M 2-Y24056	56	2.333	2.417			
A 1M 2-Y24060	60	2.500	2.583			

*Color: Gray

Discounts available on large quantity orders.



Molded Spur Gears - 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° & 20° PRESSURE ANGLE

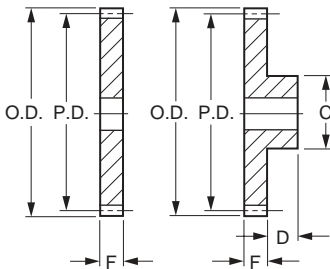
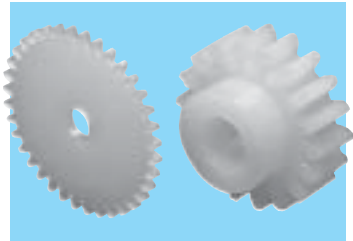
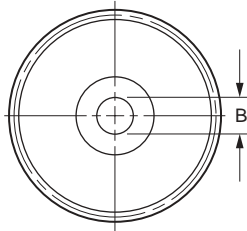


Fig. 1

Fig. 2



● 14-1/2° PRESSURE ANGLE

MATERIAL: Nylon 101

Catalog Number	Fig. No.	No. of Teeth	P.D.	O.D. Ref.	B Bore	F Face Width	C Hub Dia.	D Hub Proj.
A 1N 2-N24012	2	12	.500	.58		5/16	3/8	1/4
A 1N 1-N24015	1	15	.625	.71	1/4	7/32	—	—
A 1N 2-N24018	2	18	.750	.83		1/4	1/2	3/16
A 1N 2-N24024	2	24	1.000	1.08	1/4	1/4	5/8	3/8
A 1N 1-N24036	1	36	1.500	1.58	1/4	3/32	—	—
A 1N 2-N24084	2	84	3.500	3.58	3/8	5/16	27/32	1/4

* 84 teeth gear has six 5/8 diameter lightening holes on a 1.95 diameter circle.

● 20° PRESSURE ANGLE

MATERIAL: Nylon 101

Catalog Number	Fig. No.	No. of Teeth	P.D.	O.D. Ref.	B Bore	F Face Width	C Hub Dia.	D Hub Proj.
* A 1N 2-Y24018		18	.750	.83	.304	1/4	1/2	1/8
A 1N 2-Y24021	2	21	.875	.96	1/8	1/4	1/2	.31
A 1N 2-Y24036		36	1.500	1.58	.310	3/8	.738	1/4

*To be discontinued when present stock is depleted.



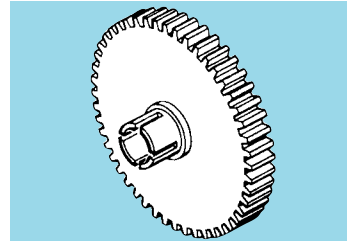
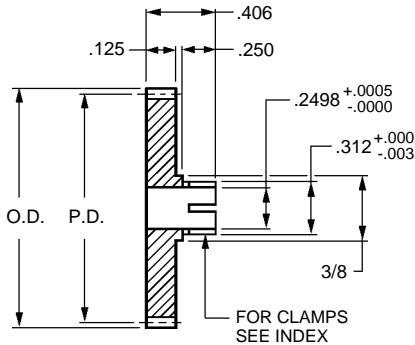
Clamp Type Spur Gears - 24 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 1/4 BORE



Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum * Anodized			
S1166Z-024S012	S1166Z-024A012	12	0.5000	0.583
S1166Z-024S015	S1166Z-024A015	15	0.6250	0.708
S1166Z-024S016	S1166Z-024A016	16	0.6667	0.750
S1166Z-024S018	S1166Z-024A018	18	0.7500	0.833
S1166Z-024S020	S1166Z-024A020	20	0.8333	0.917
S1166Z-024S021	S1166Z-024A021	21	0.8750	0.958
S1166Z-024S022	S1166Z-024A022	22	0.9167	1.000
S1166Z-024S024	S1166Z-024A024	24	1.0000	1.083
S1166Z-024S027	S1166Z-024A027	27	1.1250	1.208
S1166Z-024S030	S1166Z-024A030	30	1.2500	1.333
S1166Z-024S033	S1166Z-024A033	33	1.3750	1.458
S1166Z-024S036	S1166Z-024A036	36	1.5000	1.583
S1166Z-024S039	S1166Z-024A039	39	1.6250	1.708
S1166Z-024S042	S1166Z-024A042	42	1.7500	1.833
S1166Z-024S045	S1166Z-024A045	45	1.8750	1.958
S1166Z-024S048	S1166Z-024A048	48	2.0000	2.083
S1166Z-024S054	S1166Z-024A054	54	2.2500	2.333
S1166Z-024S060	S1166Z-024A060	60	2.5000	2.583
S1166Z-024S066	S1166Z-024A066	66	2.7500	2.833
S1166Z-024S069	S1166Z-024A069	69	2.8750	2.958
S1166Z-024S072	S1166Z-024A072	72	3.0000	3.083
S1166Z-024S075	S1166Z-024A075	75	3.1250	3.208
S1166Z-024S078	S1166Z-024A078	78	3.2500	3.333
S1166Z-024S081	S1166Z-024A081	81	3.3750	3.458
S1166Z-024S084	S1166Z-024A084	84	3.5000	3.583
S1166Z-024S087	S1166Z-024A087	87	3.6250	3.708
S1166Z-024S090	S1166Z-024A090	90	3.7500	3.833
S1166Z-024S093	S1166Z-024A093	93	3.8750	3.958
S1166Z-024S096	S1166Z-024A096	96	4.0000	4.083
S1166Z-024S099	S1166Z-024A099	99	4.1250	4.208

* T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.



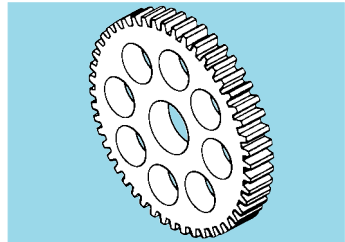
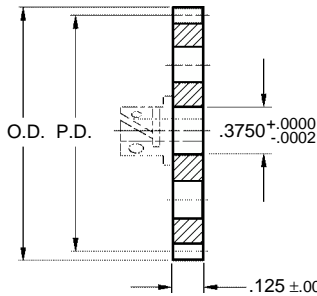
Hubless Spur Gears - 24 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



Hubs are available in Pin, Clamp, or Fairloc® type.

- All gears over 2-1/8" Dia. supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-024S015	S1268Z-024A015	15	0.6250	0.708
S1268Z-024S016	S1268Z-024A016	16	0.6667	0.750
S1268Z-024S018	S1268Z-024A018	18	0.7500	0.833
S1268Z-024S020	S1268Z-024A020	20	0.8333	0.917
S1268Z-024S021	S1268Z-024A021	21	0.8750	0.958
S1268Z-024S024	S1268Z-024A024	24	1.0000	1.083
S1268Z-024S025	S1268Z-024A025	25	1.0417	1.125
S1268Z-024S026	S1268Z-024A026	26	1.0833	1.167
S1268Z-024S028	S1268Z-024A028	28	1.1667	1.250
S1268Z-024S030	S1268Z-024A030	30	1.2500	1.333
S1268Z-024S032	S1268Z-024A032	32	1.3333	1.417
S1268Z-024S036	S1268Z-024A036	36	1.5000	1.583
S1268Z-024S040	S1268Z-024A040	40	1.6667	1.750
S1268Z-024S042	S1268Z-024A042	42	1.7500	1.833
S1268Z-024S045	S1268Z-024A045	45	1.8750	1.958
S1268Z-024S046	S1268Z-024A046	46	1.9167	2.000
S1268Z-024S048	S1268Z-024A048	48	2.0000	2.083
S1268Z-024S050	S1268Z-024A050	50	2.0833	2.167
S1268Z-024S052	S1268Z-024A052	52	2.1667	2.250
S1268Z-024S056	S1268Z-024A056	56	2.3333	2.417
S1268Z-024S060	S1268Z-024A060	60	2.5000	2.583
S1268Z-024S064	S1268Z-024A064	64	2.6667	2.750
S1268Z-024S066	S1268Z-024A066	66	2.7500	2.833
S1268Z-024S070	S1268Z-024A070	70	2.9167	3.000
S1268Z-024S072	S1268Z-024A072	72	3.0000	3.083
S1268Z-024S078	S1268Z-024A078	78	3.2500	3.333
S1268Z-024S084	S1268Z-024A084	84	3.5000	3.583
S1268Z-024S090	S1268Z-024A090	90	3.7500	3.833
S1268Z-024S096	S1268Z-024A096	96	4.0000	4.083
S1268Z-024S099	S1268Z-024A099	99	4.1250	4.208

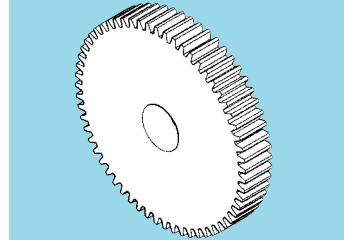
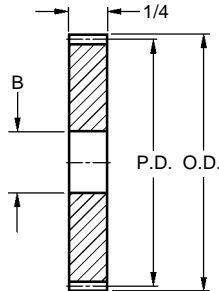
*T4 or T351 Aluminum Alloy, anodized before cutting.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for stainless steel.

**INCH****Hubless Spur Gears - 24 Pitch**

■ 14-1/2° PRESSURE ANGLE

■ 1/4 FACE WIDTH



MATERIAL: Steel

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1C 1-N24012	12	.500	.583	
A 1C 1-N24014	14	.583	.667	
A 1C 1-N24015	15	.625	.708	1/4
A 1C 1-N24016	16	.667	.750	
A 1C 1-N24016A	16	.667	.750	5/16
A 1C 1-N24018	18	.750	.833	1/4
A 1C 1-N24018A	18	.750	.833	5/16
A 1C 1-N24020	20	.833	.917	1/4
A 1C 1-N24021	21	.875	.958	1/4
A 1C 1-N24021A	21	.875	.958	3/8
A 1C 1-N24022	22	.917	1.000	1/4
A 1C 1-N24024	24	1.000	1.083	3/8
A 1C 1-N24024A	24	1.000	1.083	1/2
A 1C 1-N24028	28	1.167	1.250	3/8
A 1C 1-N24030	30	1.250	1.333	1/2
A 1C 1-N24032	32	1.333	1.417	3/8
A 1C 1-N24036	36	1.500	1.583	3/8
A 1C 1-N24036A	36	1.500	1.583	
A 1C 1-N24040	40	1.667	1.750	
A 1C 1-N24042	42	1.750	1.833	1/2
A 1C 1-N24044	44	1.833	1.917	
A 1C 1-N24045	45	1.875	1.958	3/8
A 1C 1-N24048	48	2.000	2.083	3/8
A 1C 1-N24048A	48	2.000	2.083	1/2
A 1C 1-N24054	54	2.250	2.333	3/8
A 1C 1-N24056	56	2.333	2.417	
A 1C 1-N24060	60	2.500	2.583	
A 1C 1-N24064	64	2.667	2.750	1/2
A 1C 1-N24066	66	2.750	2.833	
A 1C 1-N24072	72	3.000	3.083	

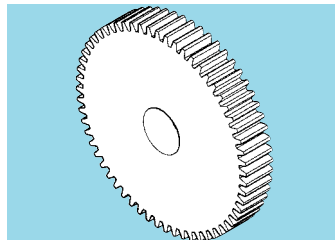
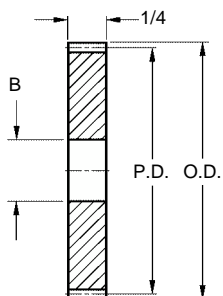
For large quantity orders, discounts available.



Hubless Spur Gears - 24 Pitch

■ 14-1/2° PRESSURE ANGLE

■ 1/4 FACE WIDTH



MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	B Bore
A 1B 1-N24008	8	.333	.417	1/8
A 1B 1-N24009	9	.375	.458	
A 1B 1-N24010	10	.417	.500	
A 1B 1-N24011	11	.458	.542	3/16
A 1B 1-N24012	12	.500	.583	
A 1B 1-N24014	14	.583	.667	
A 1B 1-N24015	15	.625	.708	
A 1B 1-N24016	16	.667	.750	
A 1B 1-N24018	18	.750	.833	
A 1B 1-N24020	20	.833	.917	
A 1B 1-N24024	24	1.000	1.083	

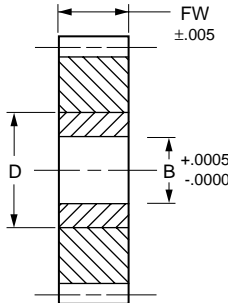
Modifications of standard parts performed at nominal charge.



Hubless Composite Spur Gears - 24 Pitch

- AGMA Q9
- 20° PRESSURE ANGLE
- 1/4 & 3/8 FACES
- 3/8 & 1/2 BORES

INTECH Power-Core™

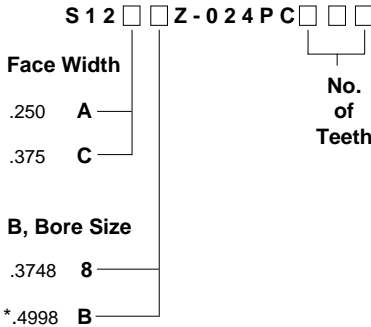


FEATURES:

- Self-lubricating
- Quiet operation
- Precision hobbed & machined
- Integral metal core
- Dimensionally stable against moisture
- High torque transmission
- Lightweight
- Shock-absorbent
- Noncorrodible

MATERIAL: Gear- Cast Nylon 12 (PA12G)
Knurled Core - 303 Stainless Steel

CATALOG NUMBER DESIGNATION:



No. of Teeth	P.D.	O.D.	D Core Dia.
24	1.0000	1.083	.630
30	1.2500	1.333	.787
32	1.3333	1.417	.787
36	1.5000	1.583	.787
48	2.0000	2.083	1.181
60	2.5000	2.583	1.378
64	2.6666	2.750	1.378
72	3.0000	3.083	1.575
96	4.0000	4.083	1.969

* Only available with 48 to 96 teeth

Example:

S12A8Z-024PC064 is a .250 Face, .3748 Bore, 24 Pitch Hubless Spur Gear with 64 Teeth.

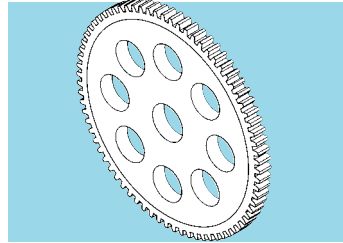
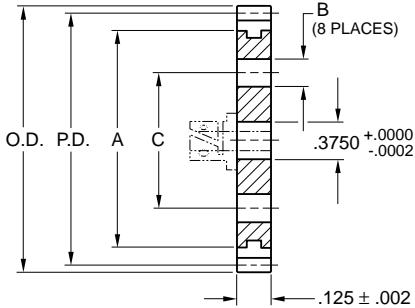
NOTE: Other face widths, number of teeth, bore diameters and carbon steel core available on special order.

See pages 1-6 thru 1-8 for technical data on Power-Core™ material.



Aluminum-Acetal Gears - 24 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 1/8 FACE
- 3/8 BORE



MATERIAL: Core – Aluminum 2024-T3, Chemical Filmed
Rim – Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	A Dia.	B Dia.	C Dia.
S1268Z-024M021	21	0.8750	0.958	5/8	—	—
S1268Z-024M024	24	1.0000	1.083			
S1268Z-024M025	25	1.0417	1.125	7/8		
S1268Z-024M030	30	1.2500	1.333			
S1268Z-024M032	32	1.3333	1.417	1-1/8		
S1268Z-024M035	35	1.4583	1.542			
S1268Z-024M036	36	1.5000	1.583			
S1268Z-024M040	40	1.6667	1.750			
S1268Z-024M042	42	1.7500	1.833	1-3/8		
S1268Z-024M045	45	1.8750	1.958			
S1268Z-024M046	46	1.9167	2.000	1-5/8	7/32	13/16
S1268Z-024M048	48	2.0000	2.083			
S1268Z-024M050	50	2.0833	2.167			
S1268Z-024M055	55	2.2917	2.375	2-1/8	3/8	1-3/8
S1268Z-024M056	56	2.3333	2.417			
S1268Z-024M060	60	2.5000	2.583			
S1268Z-024M064	64	2.6667	2.750	2-3/8		1-3/8
S1268Z-024M065	65	2.7083	2.792			
S1268Z-024M070	70	2.9167	3.000	2-5/8		1-3/4
S1268Z-024M072	72	3.0000	3.083			
S1268Z-024M084	84	3.5000	3.583	3-1/8		
S1268Z-024M096	96	4.0000	4.083		3-5/8	

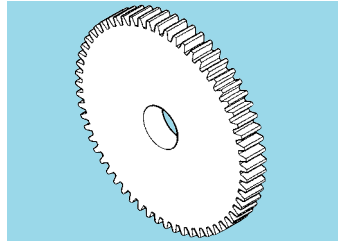
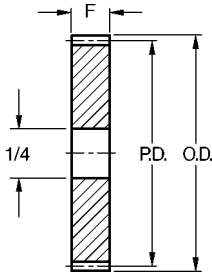
See Index for hubs. Assembled upon request at a nominal charge.
Available on special order: 14-1/2° P.A., teeth not listed, different bore and/or materials.

**INCH****Nonmetallic Hubless Spur Gears - 24 Pitch**

■ 14-1/2° PRESSURE ANGLE

■ MACHINED

■ 1/4 BORE



MATERIAL: Bakelite
250° F - Maximum Temperature

Catalog Number	No. of Teeth	P.D.	O.D.	F Face Width
A 1P 1-N24018	18	.750	.833	3/8
A 1P 1-N24021	21	.875	.958	
A 1P 1-N24048	48	2.000	2.083	1/4
A 1P 1-N24096	96	4.000	4.083	

NOTE: To be discontinued when present stock is depleted.

Did You Know?

... That pricing for any component in this catalog is available through the Sales Department? Simply call, fax or write in your request for a quote for any component that you think you might want to use in your design.

CALL: 516-328-3300

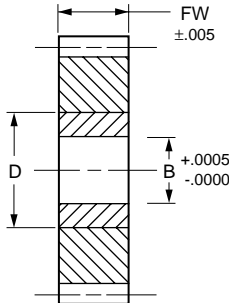
or FAX: 516-326-8827



Hubless Composite Spur Gears - 16 Pitch

- AGMA Q9
- 20° PRESSURE ANGLE
- 3/8 & 1/2 FACES
- 3/8 & 1/2 BORES

INTECH Power-Core™

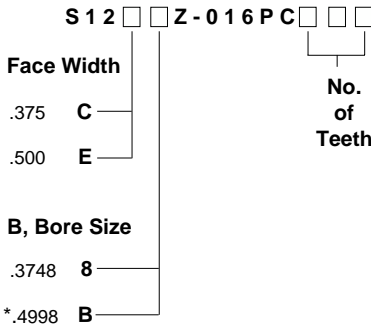


FEATURES:

- Self-lubricating
- Quiet operation
- Precision hobbed & machined
- Integral metal core
- Dimensionally stable against moisture
- High torque transmission
- Lightweight
- Shock-absorbent
- Noncorrodible

MATERIAL: Gear- Cast Nylon 12 (PA12G)
Knurled Core - 303 Stainless Steel

CATALOG NUMBER DESIGNATION:



No. of Teeth	P.D.	O.D.	D Core Dia.
20	1.2500	1.375	.630
24	1.5000	1.625	.984
28	1.7500	1.875	.984
30	1.8750	2.000	1.181
32	2.0000	2.125	1.181
36	2.2500	2.375	1.378

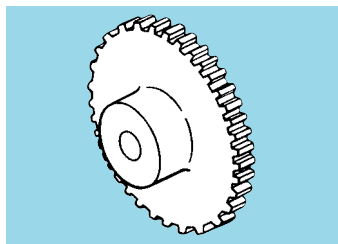
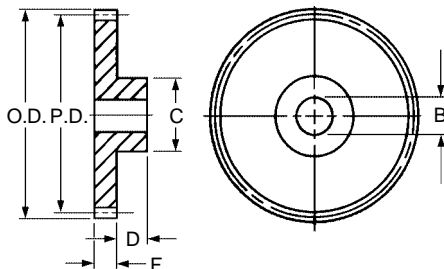
* Only available with 24 to 36 teeth

Example:

S12C8Z-016PC032 is a .375 Face, .3748 Bore, 16 Pitch Hubless Spur Gear with 32 Teeth.

NOTE: Other face widths, number of teeth, bore diameters and carbon steel core available on special order.

See pages 1-6 thru 1-8 for technical data on Power-Core™ material.

S INCH**Molded Spur Gears - 16 Pitch****■ 14-1/2° & 20° PRESSURE ANGLE****• 14-1/2° PRESSURE ANGLE****MATERIAL:** Nylon 101

Catalog Number	No. of Teeth	P.D.	O.D. Ref.	B Bore	F Face Width	C Hub Dia.	D Hub Proj.
A 1N 2-N16012	12	.750	.88	1/4	.22	7/16	1/32
A 1N 2-N16020	20	1.250	1.38	1/2	.30	7/8	1/2
A 1N 2-N16030	30	1.875	2.00	63/64	.87	1-5/8	1/2
§ A 1N 2-N16036	36	2.250	2.38	3/8	.32	3/4	3/8
* A 1N 2-N16042	42	2.625	2.75	13/32	.62	1-3/8	1/4

* Has 1/8 wide keyway and recessed web.

§ Has three 3/16 diameter holes on a 21/32 diameter bolt circle.

• 20° PRESSURE ANGLE**MATERIAL:** Nylon 101

Catalog Number	No. of Teeth	P.D.	O.D. Ref.	B Bore	F Face Width	C Hub Dia.	D Hub Proj.
** A 1N 2-Y16016	16	1.000	1.13	1/4		3/4	5/16
A 1N 2-Y16030	30	1.875	2.00	1/4		1	19/64
A 1N 2-Y16034	34	2.125	2.25	23/64	3/8	1	33/64
Δ A 1N 2-Y16076	76	4.750	4.88	1/2		7/8	1/4*
Δ A 1N 2-Y16080	80	5.000	5.13	1/2		7/8	1/4*

** Has .10 wide recess 9/32 deep on tooth side.

Δ Available only in glass filled acetal material.

* Has a 1/4 extension on each side and has spoked web.

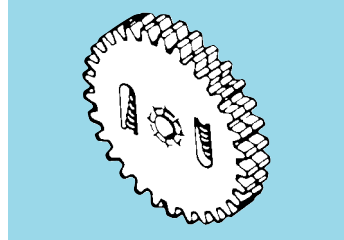
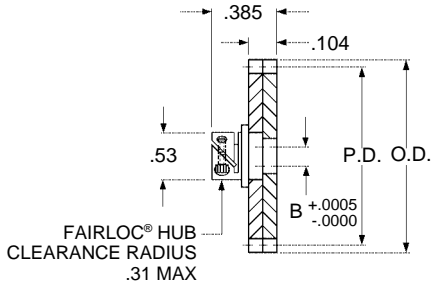


Fairloc® Hub Anti-Backlash Gears - 120 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - F 1 2 0

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel

SPRINGS: 302 Stainless Steel, Spring Tempered

Example:

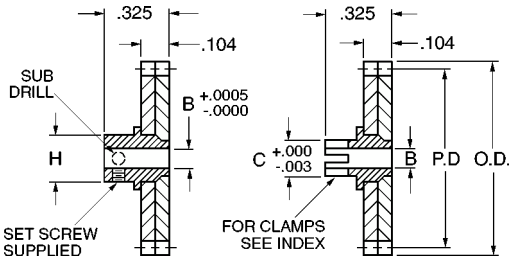
S1A56A-F120A200 is an Aluminum Anti-Backlash Gear with 200 Teeth and .2498" Bore Fairloc® Hub.

No. of Teeth	P.D.	O.D.
160	1.3333	1.350
170	1.4167	1.433
180	1.5000	1.517
190	1.5833	1.600
200	1.6667	1.683
210	1.7500	1.767
220	1.8333	1.850
230	1.9167	1.933
240	2.0000	2.017
250	2.0833	2.100
260	2.1667	2.183
270	2.2500	2.267
280	2.3333	2.350
290	2.4167	2.433
300	2.5000	2.517
310	2.5833	2.600
320	2.6667	2.683
330	2.7500	2.767
340	2.8333	2.850
350	2.9167	2.933
360	3.0000	3.017

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

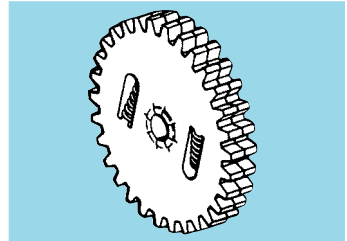
Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16, & 1/4 BORE



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 970 □ **A - Z** □ **J** □ □ □ □ **P**

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type 2, 4 or 6
- Clamp Type 3, 5 or 7

Material Code – Gears

- 303 Stainless Steel -
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

- HUBS:** 303 Stainless Steel
- SPRINGS:** 302 Stainless Steel
- Spring Tempered

Example:

S9703A-Z3J200-P is a Stainless Steel Clamp Type Anti-Backlash Gear with 200 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
160	1.3333	1.350
170	1.4167	1.433
180	1.5000	1.517
190	1.5833	1.600
200	1.6667	1.683
210	1.7500	1.767
220	1.8333	1.850
230	1.9167	1.933
240	2.0000	2.017
250	2.0833	2.100
260	2.1667	2.183
270	2.2500	2.267
280	2.3333	2.350
290	2.4167	2.433
300	2.5000	2.517
310	2.5833	2.600
320	2.6667	2.683
330	2.7500	2.767
340	2.8333	2.850
350	2.9167	2.933
360	3.0000	3.017

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

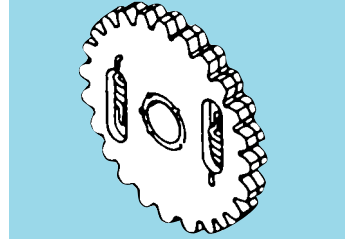
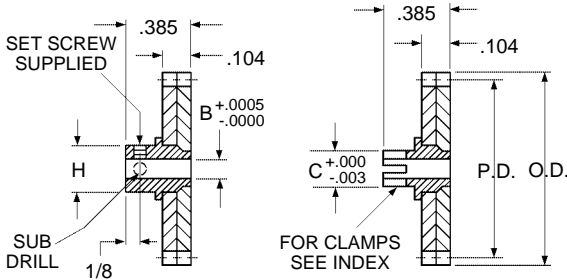
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.



Anti-Backlash Gears - 120 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE

CATALOG NUMBER DESIGNATION:

S 1 A 5 A - 1 2 0

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type P
- Clamp Type C

Material Code – Gears

- 303 Stainless Steel S
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

HUBS: 303 Stainless Steel
SPRINGS: Stainless Steel



Example:
S1A53A-C120S200 is a Stainless Steel Clamp Type Anti-Backlash Gear with 200 teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
160	1.3333	1.350
165	1.3750	1.392
170	1.4167	1.433
175	1.4583	1.475
180	1.5000	1.517
185	1.5417	1.558
190	1.5833	1.600
195	1.6250	1.642
200	1.6667	1.683
210	1.7500	1.767
220	1.8333	1.850
230	1.9167	1.933
240	2.0000	2.017
250	2.0833	2.100
260	2.1667	2.183
270	2.2500	2.267
280	2.3333	2.350
290	2.4167	2.433
300	2.5000	2.517
310	2.5833	2.600
320	2.6667	2.683
360	3.0000	3.017

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	H Dia.	Code	C Dia.	Code
3	.1248 (1/8)	.31	P	.188	C
4	.1873 (3/16)	.37	P	.250	C
6	.2498 (1/4)	.50	P	.312	C

* Two style codes available per bore size.
Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

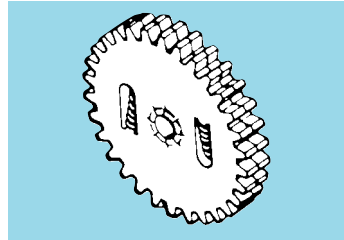
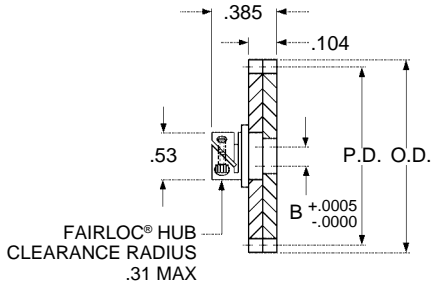


Fairloc® Hub Anti-Backlash Gears - 96 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 A 5 □ A - F 0 9 6 □ □ □ □

B, Bore Size

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Material Code

- 303 Stainless Steel S
- 2024 Aluminum T4 or T351 Alloy Anodized before cutting A

No. of Teeth

HUBS: 303 Stainless Steel
SPRINGS: 302 Stainless Steel, Spring Tempered

Example:
 S1A53A-F096S180 is a Stainless Steel Anti-Backlash Gear with 180 Teeth and .1248" Bore Fairloc® Hub.

No. of Teeth	P.D.	O.D.
130	1.3542	1.375
135	1.4063	1.427
140	1.4583	1.479
144	1.5000	1.521
145	1.5104	1.531
150	1.5625	1.583
160	1.6667	1.688
170	1.7708	1.792
180	1.8750	1.896
190	1.9792	2.000
192	2.0000	2.021
200	2.0833	2.104
210	2.1875	2.208
220	2.2917	2.313
230	2.3958	2.417
240	2.5000	2.521
250	2.6042	2.625
260	2.7083	2.729
270	2.8125	2.833
288	3.0000	3.021

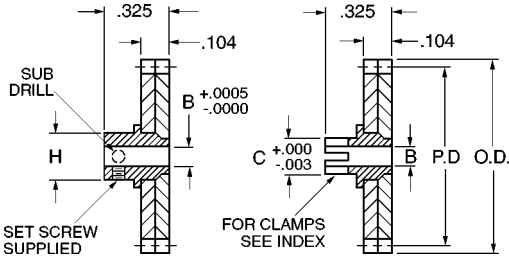
Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

Fairloc® hubs require controlled shaft tolerances.
 Suggested clearance fit between the bore and the shaft is .0001/.0008.



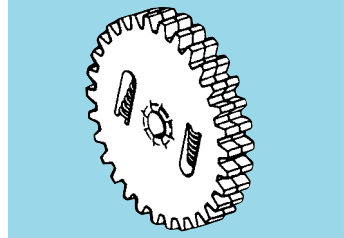
Anti-Backlash Gears - 96 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16, & 1/4 BORE



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 970 **A - Z** **H** **P**

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type 2, 4 or 6
- Clamp Type 3, 5 or 7

Material Code – Gears

- 303 Stainless Steel -
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

- HUBS:** 303 Stainless Steel
- SPRINGS:** 302 Stainless Steel
Spring Tempered

S9703A-Z2H144AP is an Aluminum Pin Type Anti-Backlash Gear with 144 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
130	1.3542	1.375
135	1.4063	1.427
140	1.4583	1.479
144	1.5000	1.521
145	1.5104	1.531
150	1.5625	1.583
160	1.6667	1.688
170	1.7708	1.792
180	1.8750	1.896
190	1.9792	2.000
192	2.0000	2.021
200	2.0833	2.104
210	2.1875	2.208
220	2.2917	2.313
230	2.3958	2.417
240	2.5000	2.521
250	2.6042	2.625
260	2.7083	2.729
270	2.8125	2.833
288	3.0000	3.021

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

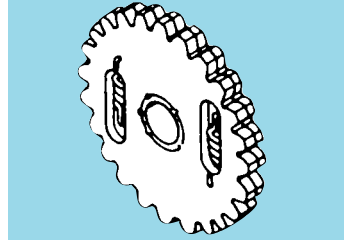
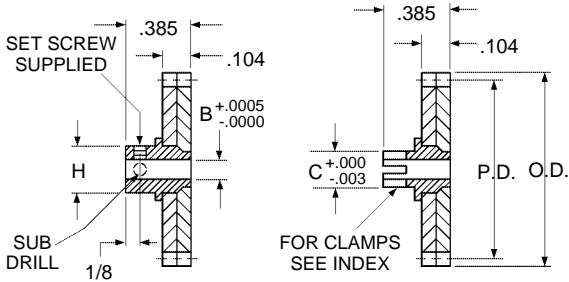
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.



Anti-Backlash Gears - 96 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - 0 9 6

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type P
- Clamp Type C

Material Code – Gears

- 303 Stainless Steel S
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

HUBS: 303 Stainless Steel

SPRINGS: Stainless Steel

Example:
S1A53A-P096S170 is a Stainless Steel Pin Type Anti-Backlash Gear with 170 teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
130	1.3542	1.375
135	1.4063	1.427
140	1.4583	1.479
144	1.5000	1.521
145	1.5104	1.531
150	1.5625	1.583
155	1.6146	1.635
160	1.6667	1.688
170	1.7708	1.792
175	1.8229	1.844
180	1.8750	1.896
190	1.9792	2.000
192	2.0000	2.021
200	2.0833	2.104
210	2.1875	2.208
220	2.2917	2.313
230	2.3958	2.417
240	2.5000	2.521
250	2.6042	2.625
260	2.7083	2.729
264	2.7500	2.771
288	3.0000	3.021

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.31	P	.188	C
4	.1873 (3/16)	.37	P	.250	C
6	.2498 (1/4)	.50	P	.312	C

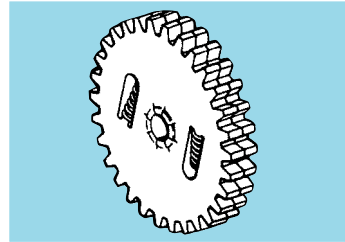
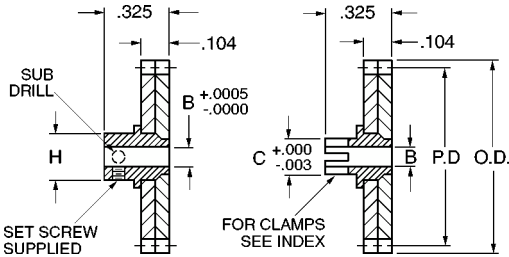
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.



Anti-Backlash Gears - 80 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16, & 1/4 BORE



PIN TYPE

CLAMP TYPE

HUBS: 303 Stainless Steel
SPRINGS: 302 Stainless Steel
 Spring Tempered

CATALOG NUMBER DESIGNATION:

S 970 □ **A - Z** □ **G** □ □ □ □ **P**

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type 2, 4 or 6
- Clamp Type 3, 5 or 7

Material Code – Gears

- 303 Stainless Steel -
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

S9703A-Z3G120-P is a Stainless Steel Clamp Type Anti-Backlash Gear with 120 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
100	1.2500	1.275
105	1.3125	1.338
110	1.3750	1.400
115	1.4375	1.463
120	1.5000	1.525
125	1.5625	1.588
130	1.6250	1.650
135	1.6875	1.713
140	1.7500	1.775
145	1.8125	1.838
150	1.8750	1.900
160	2.0000	2.025
170	2.1250	2.150
180	2.2500	2.275
190	2.3750	2.400
200	2.5000	2.525
220	2.7500	2.775
240	3.0000	3.025

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

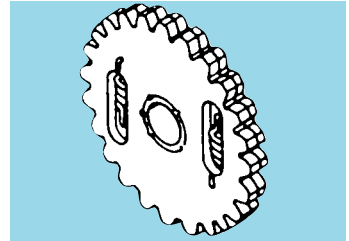
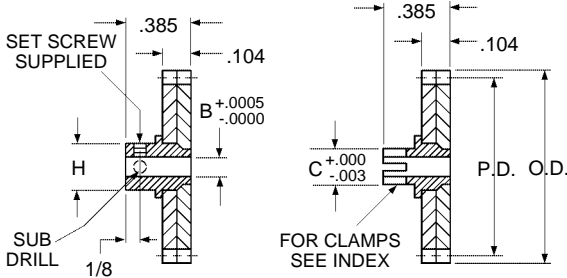
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.



Anti-Backlash Gears - 80 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - 0 8 0

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type P
- Clamp Type C

Material Code – Gears

- 303 Stainless Steel S
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

HUBS: 303 Stainless Steel

SPRINGS: Stainless Steel

Example:

S1A53A-P080S150 is a Stainless Steel Pin Type Anti-Backlash Gear with 150 teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
100	1.2500	1.275
105	1.3125	1.338
110	1.3750	1.400
115	1.4375	1.463
120	1.5000	1.525
125	1.5625	1.588
130	1.6250	1.650
135	1.6875	1.713
140	1.7500	1.775
145	1.8125	1.838
150	1.8750	1.900
155	1.9375	1.963
160	2.0000	2.025
165	2.0625	2.088
170	2.1250	2.150
175	2.1875	2.213
180	2.2500	2.275
185	2.3125	2.338
190	2.3750	2.400
200	2.5000	2.525
220	2.7500	2.775
240	3.0000	3.025

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
		H	C	H	C
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.31	P	.188	C
4	.1873 (3/16)	.37	P	.250	C
6	.2498 (1/4)	.50	P	.312	C

* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

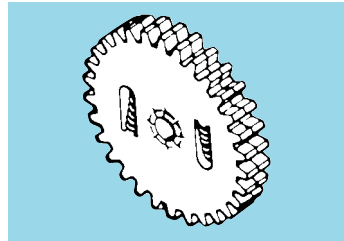
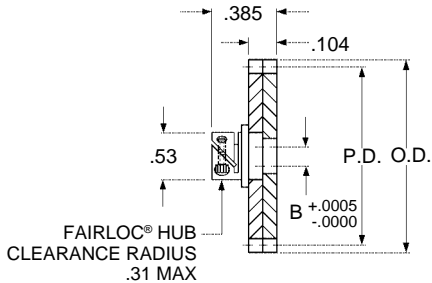


Fairloc® Hub Anti-Backlash Gears - 72 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - F 0 7 2

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel

SPRINGS: 302 Stainless Steel, Spring Tempered

Example:

S1A54A-F072A150 is an Aluminum Anti-Backlash Gear with 150 Teeth and .1873" Bore Fairloc® Hub.

No. of Teeth	P.D.	O.D.
100	1.3889	1.417
105	1.4583	1.486
108	1.5000	1.528
110	1.5278	1.556
115	1.5972	1.625
120	1.6667	1.694
125	1.7361	1.764
130	1.8056	1.833
140	1.9444	1.972
144	2.0000	2.028
150	2.0833	2.111
160	2.2222	2.250
170	2.3611	2.389
180	2.5000	2.528
190	2.6389	2.667
200	2.7778	2.806
210	2.9167	2.944
216	3.0000	3.028
220	3.0556	3.083

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

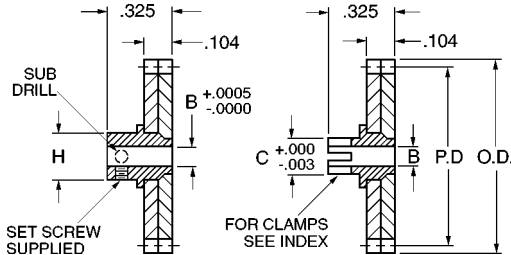
Fairloc® hubs require controlled shaft tolerances.

Suggested clearance fit between the bore and the shaft is .0001/.0008.



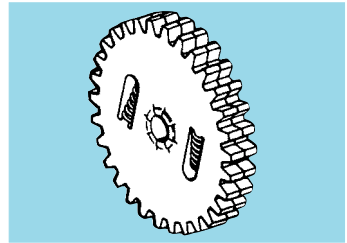
Anti-Backlash Gears - 72 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16, & 1/4 BORE



PIN TYPE

CLAMP TYPE



HUBS: 303 Stainless Steel
SPRINGS: 302 Stainless Steel
 Spring Tempered

CATALOG NUMBER DESIGNATION:

S 9 7 0 □ **A - Z** □ **F** □ □ □ □ **P**

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type 2, 4 or 6
- Clamp Type 3, 5 or 7

Material Code – Gears

- 303 Stainless Steel -
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

S9703A-Z2F120AP is an Aluminum Pin Type Anti-Backlash Gear with 120 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
100	1.3889	1.417
105	1.4583	1.486
108	1.5000	1.528
110	1.5278	1.556
115	1.5972	1.625
120	1.6667	1.694
125	1.7361	1.764
130	1.8056	1.833
140	1.9444	1.972
144	2.0000	2.028
150	2.0833	2.111
160	2.2222	2.250
170	2.3611	2.389
180	2.5000	2.528
190	2.6389	2.667
200	2.7778	2.806
210	2.9167	2.944
216	3.0000	3.028
220	3.0556	3.083

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

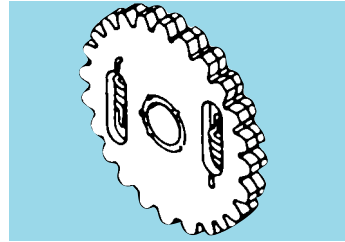
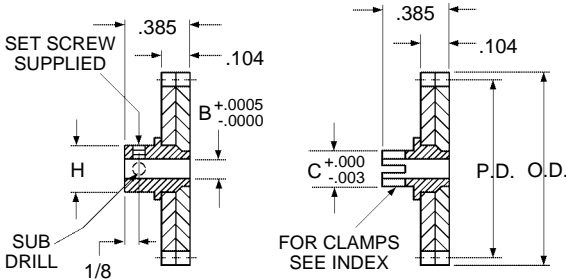
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.



Anti-Backlash Gears - 72 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - 0 7 2

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

No. of Teeth

Hub Style Code (See below)

- Pin Type P
- Clamp Type C

Material Code – Gears

- 303 Stainless Steel S
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

HUBS: 303 Stainless Steel

SPRINGS: Stainless Steel

Example:

S1A53A-P072S145 is a Stainless Steel Pin Type Anti-Backlash Gear with 145 teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
100	1.3889	1.417
105	1.4583	1.486
108	1.5000	1.528
110	1.5278	1.556
115	1.5972	1.625
120	1.6667	1.694
125	1.7361	1.764
130	1.8056	1.833
135	1.8750	1.903
140	1.9444	1.972
144	2.0000	2.028
145	2.0139	2.042
150	2.0833	2.111
155	2.1528	2.181
160	2.2222	2.250
165	2.2917	2.319
170	2.3611	2.389
175	2.4306	2.458
180	2.5000	2.528
190	2.6389	2.667
200	2.7778	2.806
216	3.0000	3.028

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.31	P	.188	C
4	.1873 (3/16)	.37	P	.250	C
6	.2498 (1/4)	.50	P	.312	C

* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

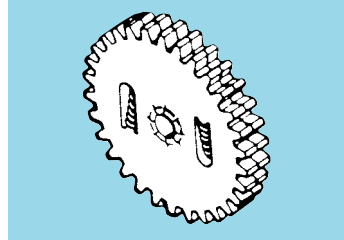
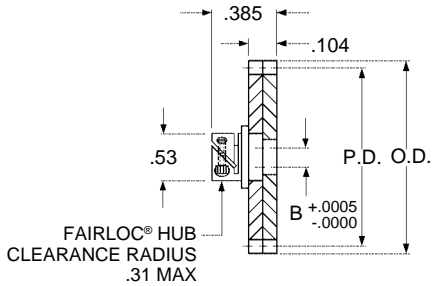


Fairloc® Hub Anti-Backlash Gears - 64 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - F 0 6 4

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel

SPRINGS: 302 Stainless Steel, Spring Tempered

No. of Teeth	P.D.	O.D.
85	1.3281	1.359
90	1.4063	1.438
95	1.4844	1.516
96	1.5000	1.531
100	1.5625	1.594
105	1.6406	1.672
110	1.7188	1.750
115	1.7969	1.828
120	1.8750	1.906
125	1.9531	1.984
128	2.0000	2.031
130	2.0313	2.063
140	2.1875	2.219
150	2.3438	2.375
160	2.5000	2.531
170	2.6563	2.688
180	2.8125	2.844
190	2.9688	3.000
192	3.0000	3.031

Example:

S1A56A-F064A125 is an Aluminum Anti-Backlash Gear with 125 Teeth and .2498" Bore Fairloc® Hub.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

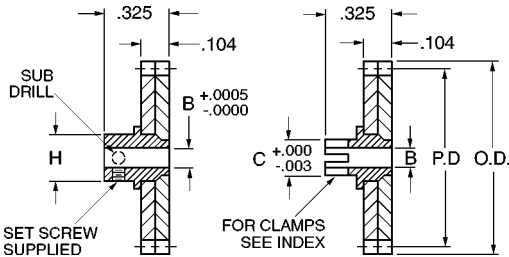
Fairloc® hubs require controlled shaft tolerances.

Suggested clearance fit between the bore and the shaft is .0001/.0008.



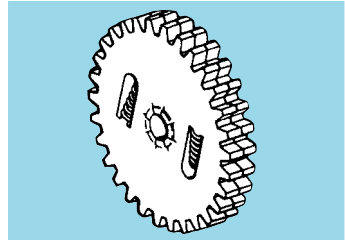
Anti-Backlash Gears - 64 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16, & 1/4 BORE



PIN TYPE

CLAMP TYPE



HUBS: 303 Stainless Steel
SPRINGS: 302 Stainless Steel
 Spring Tempered

CATALOG NUMBER DESIGNATION:

S 970 □ **A - Z** □ **E** □ □ □ **P**

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type 2, 4 or 6
- Clamp Type 3, 5 or 7

Material Code – Gears

- 303 Stainless Steel -
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

S9703A-Z3E096AP is an Aluminum Clamp Type Anti-Backlash Gear with 96 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
85	1.3281	1.359
90	1.4063	1.438
95	1.4844	1.516
96	1.5000	1.531
100	1.5625	1.594
105	1.6406	1.672
110	1.7188	1.750
115	1.7969	1.828
120	1.8750	1.906
125	1.9531	1.984
128	2.0000	2.031
130	2.0313	2.063
140	2.1875	2.219
150	2.3438	2.375
160	2.5000	2.531
170	2.6563	2.688
180	2.8125	2.844
190	2.9688	3.000
192	3.0000	3.031

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

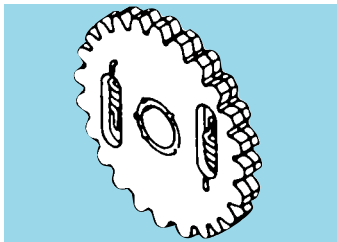
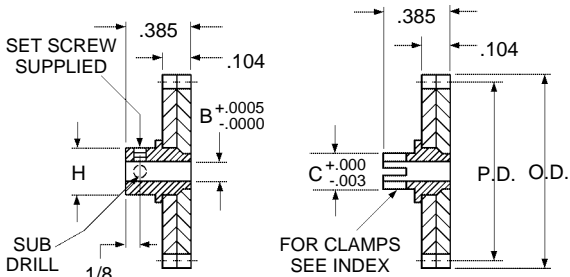
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.



Anti-Backlash Gears - 64 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 1 A 5 **A** - **0 6 4**

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

No. of Teeth

Hub Style Code (See below)

- Pin Type **P**
- Clamp Type **C**

Material Code – Gears

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel

SPRINGS: Stainless Steel

Example:
S1A53A-C064S100 is a Stainless Steel Clamp Type
Anti-Backlash Gear with 100 teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
85	1.3281	1.359
90	1.4063	1.438
95	1.4844	1.516
96	1.5000	1.531
100	1.5625	1.594
105	1.6406	1.672
108	1.6875	1.719
110	1.7188	1.750
115	1.7969	1.828
120	1.8750	1.906
125	1.9531	1.984
128	2.0000	2.031
130	2.0313	2.063
135	2.1094	2.141
140	2.1875	2.219
145	2.2656	2.297
150	2.3438	2.375
155	2.4219	2.453
160	2.5000	2.531
170	2.6563	2.688
176	2.7500	2.781
192	3.0000	3.031

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.31	P	.188	C
4	.1873 (3/16)	.37	P	.250	C
6	.2498 (1/4)	.50	P	.312	C

* Two style codes available per bore size.
Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

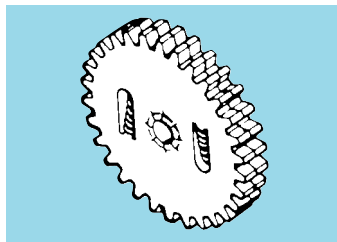
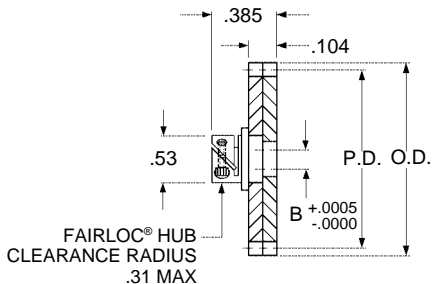


Fairloc® Hub Anti-Backlash Gears - 48 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - F 0 4 8

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum T4 or T351 Alloy Anodized before cutting **A**

HUBS: 303 Stainless Steel
SPRINGS: 302 Stainless Steel, Spring Tempered

No. of Teeth	P.D.	O.D.
65	1.3542	1.396
70	1.4583	1.500
72	1.5000	1.542
75	1.5625	1.604
80	1.6667	1.708
84	1.7500	1.792
85	1.7708	1.813
90	1.8750	1.917
95	1.9792	2.021
96	2.0000	2.042
100	2.0833	2.125
105	2.1875	2.229
110	2.2917	2.333
115	2.3958	2.438
120	2.5000	2.542
125	2.6042	2.646
130	2.7083	2.750
140	2.9167	2.958
144	3.0000	3.042

Example:
 S1A53A-F048S120 is a Stainless Steel Anti-Backlash Gear with 120 Teeth and .1248" Bore Fairloc® Hub.

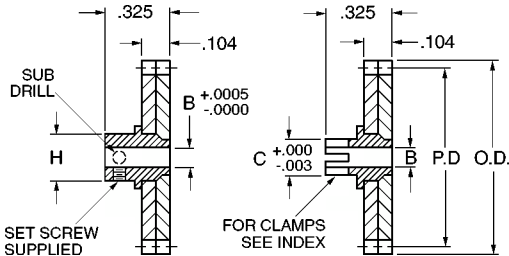
Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

Fairloc® hubs require controlled shaft tolerances.
 Suggested clearance fit between the bore and the shaft is .0001/.0008.



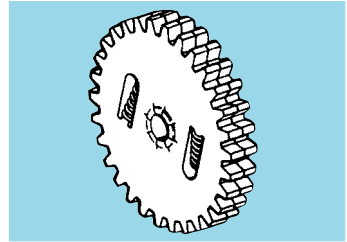
Anti-Backlash Gears - 48 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16, & 1/4 BORE



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 97 0 □ A - Z □ D □ □ □ □ P

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

Hub Style Code (See below)

- Pin Type 2, 4 or 6
- Clamp Type 3, 5 or 7

Material Code – Gears

- 303 Stainless Steel -
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

- HUBS:** 303 Stainless Steel
- SPRINGS:** 302 Stainless Steel
- Spring Tempered

Example:

S9703A-Z2D080-P is a Stainless Steel Pin Type Anti-Backlash Gear with 80 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
65	1.3542	1.396
70	1.4583	1.500
72	1.5000	1.542
75	1.5625	1.604
80	1.6667	1.708
84	1.7500	1.792
85	1.7708	1.813
90	1.8750	1.917
95	1.9792	2.021
96	2.0000	2.042
100	2.0833	2.125
105	2.1875	2.229
110	2.2917	2.333
115	2.3958	2.438
120	2.5000	2.542
125	2.6042	2.646
130	2.7083	2.750
140	2.9167	2.958
144	3.0000	3.042

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

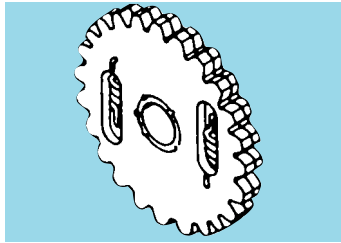
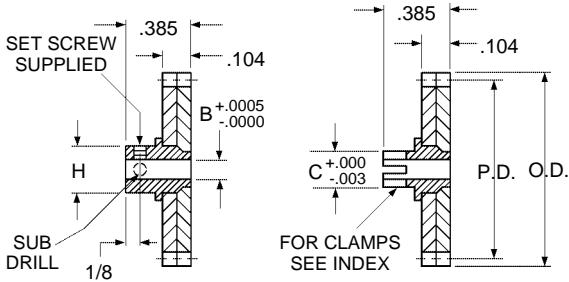
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.



Anti-Backlash Gears - 48 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 1 A 5 A - 0 4 8

B Bore Code

- .1248 (1/8) 3
- .1873 (3/16) 4
- .2498 (1/4) 6

No. of Teeth

Hub Style Code (See below)

- Pin Type P
- Clamp Type C

Material Code – Gears

- 303 Stainless Steel S
- 2024 Aluminum A
- T4 or T351 Alloy
- Anodized before cutting

HUBS: 303 Stainless Steel

SPRINGS: Stainless Steel

Example:

S1A53A-P048S072 is a Stainless Steel Pin Type Anti-Backlash Gear with 72 teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
65	1.3542	1.396
66	1.3750	1.417
68	1.4167	1.458
70	1.4583	1.500
72	1.5000	1.542
74	1.5417	1.583
75	1.5625	1.604
80	1.6667	1.708
84	1.7500	1.792
85	1.7708	1.813
90	1.8750	1.917
95	1.9792	2.021
96	2.0000	2.042
100	2.0833	2.125
105	2.1875	2.229
110	2.2917	2.333
115	2.3958	2.438
120	2.5000	2.542
125	2.6042	2.646
130	2.7083	2.750
132	2.7500	2.792
144	3.0000	3.042

Hub Style*

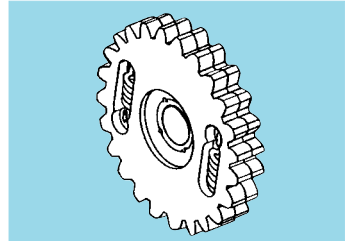
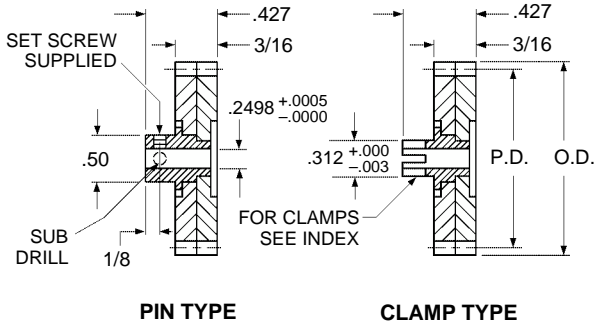
B Bore Selection		Pin Type		Clamp Type	
Code	Size	H Dia.	Code	C Dia.	Code
3	.1248 (1/8)	.31	P	.188	C
4	.1873 (3/16)	.37	P	.250	C
6	.2498 (1/4)	.50	P	.312	C

* Two style codes available per bore size.

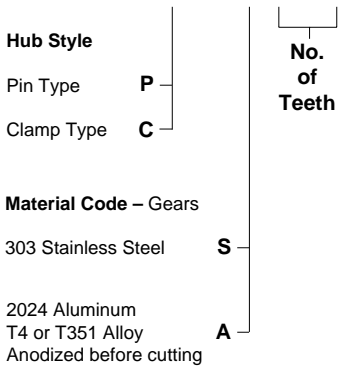
Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

S INCH Anti-Backlash Gears - 32 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE



CATALOG NUMBER DESIGNATION:
S 1 A 8 6 A - □ 0 3 2 □ □ □ □



Hub Material
 303 Stainless Steel

Spring Material
 Stainless Steel

No. of Teeth	P.D.	O.D.
40	1.2500	1.313
42	1.3125	1.375
44	1.3750	1.438
45	1.4063	1.469
46	1.4375	1.500
48	1.5000	1.563
50	1.5625	1.625
52	1.6250	1.688
54	1.6875	1.750
55	1.7188	1.781
56	1.7500	1.813
58	1.8125	1.875
60	1.8750	1.938
62	1.9375	2.000
64	2.0000	2.063
65	2.0313	2.094
70	2.1875	2.250
72	2.2500	2.313
75	2.3438	2.406
80	2.5000	2.563
85	2.6563	2.719
96	3.0000	3.063

Example:
 S1A86A-P032S048 is a Stainless Steel Pin Type
 Anti-Backlash Gear with 48 teeth.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size, passivation for stainless steel.



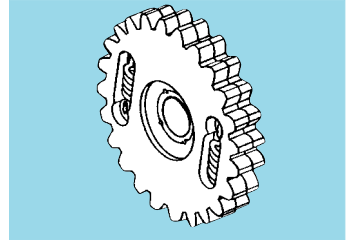
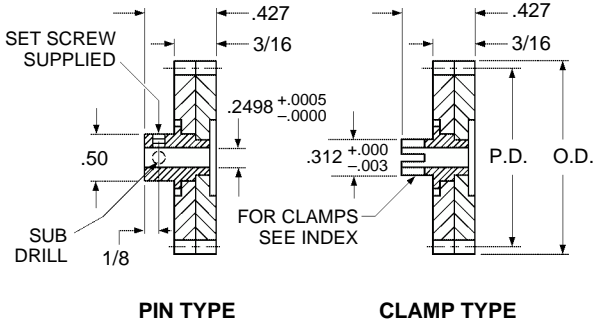
Anti-Backlash Gears - 24 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 3/16 FACE

■ 1/4 BORE



CATALOG NUMBER DESIGNATION:

S 1 A 8 6 A - **0** **2**

Hub Style

Pin Type **P**

Clamp Type **C**

No. of Teeth

Material Code – Gears

303 Stainless Steel **S**

2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

Hub Material

303 Stainless Steel

Spring Material

Stainless Steel

No. of Teeth	P.D.	O.D.
30	1.2500	1.333
32	1.3333	1.417
35	1.4583	1.542
36	1.5000	1.583
38	1.5833	1.667
40	1.6667	1.750
42	1.7500	1.833
44	1.8333	1.917
45	1.8750	1.958
46	1.9167	2.000
48	2.0000	2.083
50	2.0833	2.167
52	2.1667	2.250
54	2.2500	2.333
55	2.2917	2.375
56	2.3333	2.417
58	2.4167	2.500
60	2.5000	2.583
62	2.5833	2.667
65	2.7083	2.792
66	2.7500	2.833
72	3.0000	3.083

Example:

S1A86A-P024S035 is a Stainless Steel Pin Type Anti-Backlash Gear with 35 teeth.

Available on special order: 14-1/2° P.A., teeth not listed, different bore size, passivation for stainless steel.

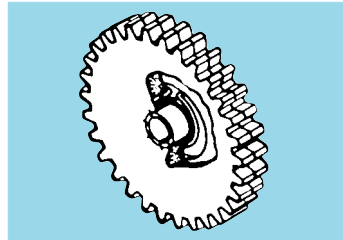
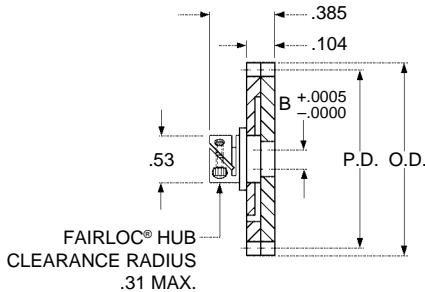


Fairloc® Hub Mini-Lash Gears - 120 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 M 5 A - F 1 2 0

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel
SPRINGS: Torsion Type

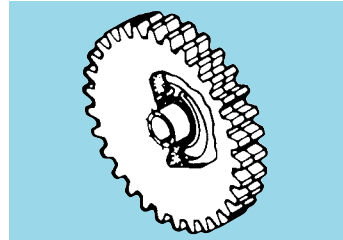
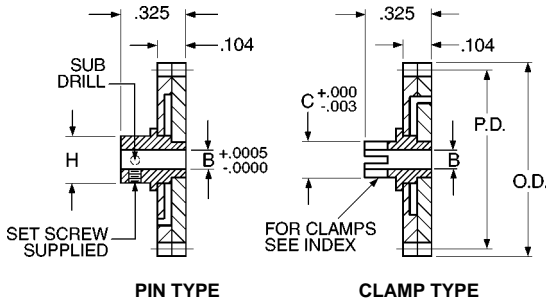
Example:
S1M56A-F120A090 is an Aluminum Mini-Lash Gear with 90 Teeth and .2498" Bore Fairloc® Hub.

No. of Teeth	P.D.	O.D.
75	0.6250	0.642
80	0.6667	0.683
84	0.7000	0.717
85	0.7083	0.725
90	0.7500	0.767
95	0.7917	0.808
96	0.8000	0.817
100	0.8333	0.850
105	0.8750	0.892
110	0.9167	0.933
115	0.9583	0.975
120	1.0000	1.017
125	1.0417	1.058
130	1.0833	1.100
132	1.1000	1.117
135	1.1250	1.142
140	1.1667	1.183
144	1.2000	1.217
145	1.2083	1.225
148	1.2333	1.250

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



CATALOG NUMBER DESIGNATION:

S 97 1 **A - Z** **J** **P**

B Bore Code

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

Hub Style Code (See below)

- Pin Type **2, 4 or 6**
- Clamp Type **3, 5 or 7**

Material Code – Gears

- 303 Stainless Steel **-**
- 2024 Aluminum **A**
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

HUBS: 303 Stainless Steel

SPRINGS: Torsion Type

Example:

S9713A-Z3J084-P is a Stainless Steel Clamp Type Mini-Lash Gear with 84 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
60	0.5000	0.517
65	0.5417	0.558
70	0.5833	0.600
72	0.6000	0.617
75	0.6250	0.642
80	0.6667	0.683
84	0.7000	0.717
85	0.7083	0.725
90	0.7500	0.767
95	0.7917	0.808
96	0.8000	0.817
100	0.8333	0.850
105	0.8750	0.892
110	0.9167	0.933
115	0.9583	0.975
120	1.0000	1.017
125	1.0417	1.058
130	1.0833	1.100
132	1.1000	1.117
135	1.1250	1.142
140	1.1667	1.183
144	1.2000	1.217
145	1.2083	1.225
148	1.2333	1.250

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	H		C	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

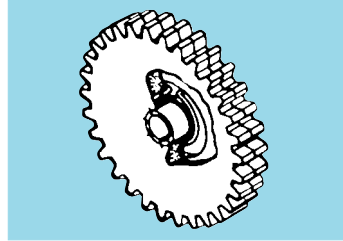
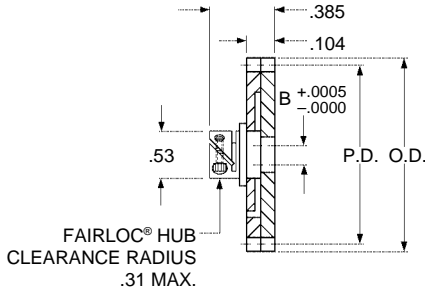


Fairloc® Hub Mini-Lash Gears - 96 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 M 5 A - F 0 9 6

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel
SPRINGS: Torsion Type

No. of Teeth	P.D.	O.D.
60	0.6250	0.646
62	0.6458	0.667
64	0.6667	0.688
66	0.6875	0.708
68	0.7083	0.729
70	0.7292	0.750
72	0.7500	0.771
74	0.7708	0.792
80	0.8333	0.854
84	0.8750	0.896
90	0.9375	0.958
96	1.0000	1.021
100	1.0417	1.063
102	1.0625	1.083
108	1.1250	1.146
110	1.1458	1.167
114	1.1875	1.208
118	1.2292	1.250

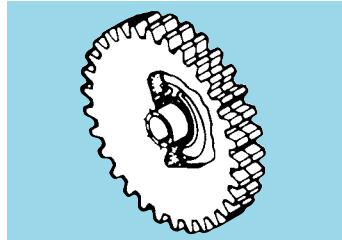
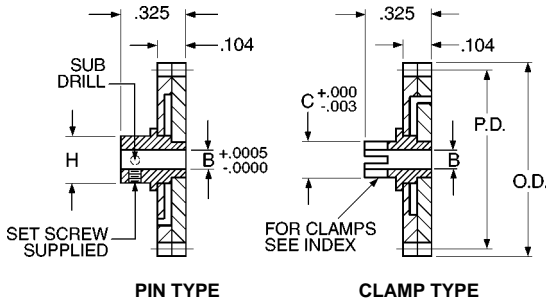
Example:

S1M53A-F096S074 is a Stainless Steel Mini-Lash Gear with 74 Teeth and .1248" Bore Fairloc® Hub.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE

CATALOG NUMBER DESIGNATION:

S 9 7 1 **A - Z** **H** **P**

B Bore Code

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

Hub Style Code (See below)

- Pin Type **2, 4 or 6**
- Clamp Type **3, 5 or 7**

Material Code – Gears

- 303 Stainless Steel **-**
- 2024 Aluminum **A**
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

HUBS: 303 Stainless Steel

SPRINGS: Torsion Type

Example:

S9713A-Z2H064-P is a Stainless Steel Pin Type Mini-Lash Gear with 64 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
48	0.5000	0.521
50	0.5208	0.542
52	0.5417	0.563
54	0.5625	0.583
56	0.5833	0.604
58	0.6042	0.625
60	0.6250	0.646
62	0.6458	0.667
64	0.6667	0.688
66	0.6875	0.708
68	0.7083	0.729
70	0.7292	0.750
72	0.7500	0.771
74	0.7708	0.792
80	0.8333	0.854
84	0.8750	0.896
90	0.9375	0.958
96	1.0000	1.021
100	1.0417	1.063
102	1.0625	1.083
108	1.1250	1.146
110	1.1458	1.167
114	1.1875	1.208
118	1.2292	1.250

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	H		C	
Code	Size	Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

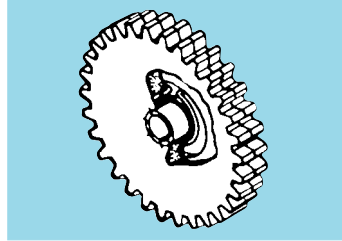
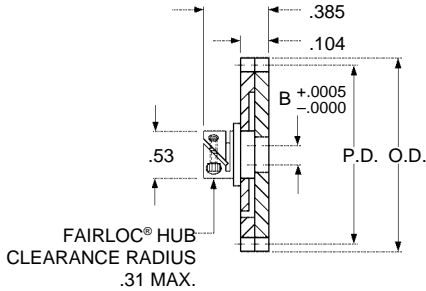


Fairloc® Hub Mini-Lash Gears - 80 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 M 5 A - F 0 8 0 0

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel
SPRINGS: Torsion Type

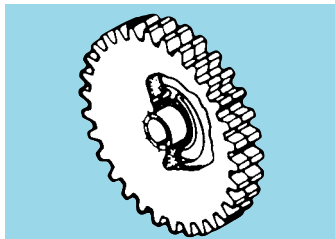
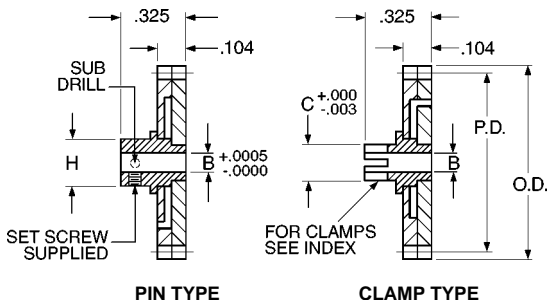
No. of Teeth	P.D.	O.D.
50	0.6250	0.650
52	0.6500	0.675
54	0.6750	0.700
55	0.6875	0.713
56	0.7000	0.725
58	0.7250	0.750
60	0.7500	0.775
62	0.7750	0.800
64	0.8000	0.825
65	0.8125	0.838
66	0.8250	0.850
70	0.8750	0.900
75	0.9375	0.963
80	1.0000	1.025
85	1.0625	1.088
90	1.1250	1.150
95	1.1875	1.213
98	1.2250	1.250

Example:
S1M54A-F080A085 is an Aluminum Mini-Lash Gear with 85 Teeth and .1873" Bore Fairloc® Hub.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE

CLAMP TYPE

CATALOG NUMBER DESIGNATION:

S 97 1 **A** - **Z** **G** **P**

B Bore Code

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

Hub Style Code (See below)

- Pin Type **2, 4 or 6**
- Clamp Type **3, 5 or 7**

Material Code – Gears

- 303 Stainless Steel **-**
- 2024 Aluminum **A**
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

Hub Style*

B Bore Selection		Pin Type	Clamp Type
Code	Size	H	C
3	.1248 (1/8)	.312 2	.187 3
4	.1873 (3/16)	.375 4	.250 5
6	.2498 (1/4)	.437 6	.312 7

HUBS: 303 Stainless Steel

SPRINGS: Torsion Type

Example:

S9713A-Z3G048-P is a Stainless Steel Clamp Type Mini-Lash Gear with 48 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
40	0.5000	0.525
42	0.5250	0.550
44	0.5500	0.575
45	0.5625	0.588
46	0.5750	0.600
48	0.6000	0.625
50	0.6250	0.650
52	0.6500	0.675
54	0.6750	0.700
55	0.6875	0.713
56	0.7000	0.725
58	0.7250	0.750
60	0.7500	0.775
62	0.7750	0.800
64	0.8000	0.825
65	0.8125	0.838
66	0.8250	0.850
70	0.8750	0.900
75	0.9375	0.963
80	1.0000	1.025
85	1.0625	1.088
90	1.1250	1.150
95	1.1875	1.213
98	1.2250	1.250

* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

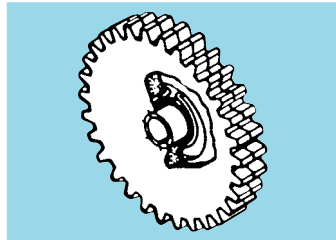
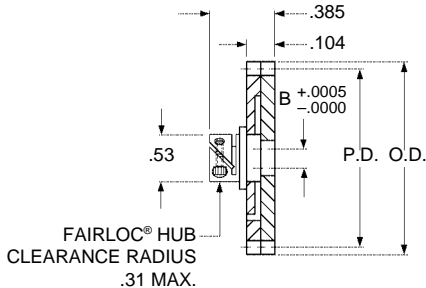


Fairloc® Hub Mini-Lash Gears - 72 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 M 5 □ A - F 0 7 2 □ 0 □ □ □

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum T4 or T351 Alloy Anodized before cutting **A**

HUBS: 303 Stainless Steel
SPRINGS: Torsion Type

No. of Teeth	P.D.	O.D.
45	0.6250	0.653
46	0.6389	0.667
48	0.6667	0.694
50	0.6944	0.722
52	0.7222	0.750
54	0.7500	0.778
56	0.7778	0.806
58	0.8056	0.833
60	0.8333	0.861
62	0.8611	0.889
64	0.8889	0.917
66	0.9167	0.944
68	0.9444	0.972
70	0.9722	1.000
72	1.0000	1.028
76	1.0556	1.083
80	1.1111	1.139
84	1.1667	1.194
88	1.2222	1.250

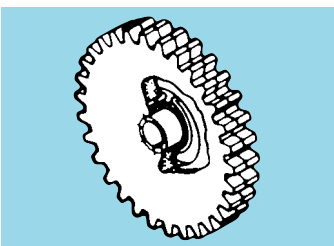
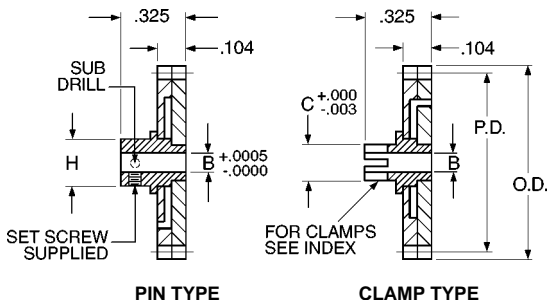
Example:
 S1M56A-F072A058 is an Aluminum Mini-Lash Gear with 58 Teeth and .2498" Bore Fairloc® Hub.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

Fairloc® hubs require controlled shaft tolerances.
 Suggested clearance fit between the bore and the shaft is .0001/.0008.

S INCH Mini-Lash Gears - 72 Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



PIN TYPE **CLAMP TYPE**

CATALOG NUMBER DESIGNATION:

S 9 7 1 **A - Z** **F** **P**

B Bore Code

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

Hub Style Code (See below)

- Pin Type **2, 4 or 6**
- Clamp Type **3, 5 or 7**

Material Code – Gears

- 303 Stainless Steel **-**
- 2024 Aluminum **A**
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

HUBS: 303 Stainless Steel

SPRINGS: Torsion Type

Example:
S9713A-Z2F054-P is a Stainless Steel Pin Type Mini-Lash Gear with 54 Teeth and .1248 Bore.

No. of Teeth	P.D.	O.D.
36	0.5000	0.528
38	0.5278	0.556
40	0.5555	0.583
42	0.5833	0.611
44	0.6111	0.639
45	0.6250	0.653
46	0.6389	0.667
48	0.6667	0.694
50	0.6944	0.722
52	0.7222	0.750
54	0.7500	0.778
56	0.7778	0.806
58	0.8055	0.833
60	0.8333	0.861
62	0.8611	0.889
64	0.8889	0.917
66	0.9167	0.944
68	0.9444	0.972
70	0.9722	1.000
72	1.0000	1.028
76	1.0555	1.083
80	1.1111	1.139
84	1.1667	1.194
88	1.2222	1.250

Hub Style*

B Bore Selection		Pin Type	Clamp Type
Code	Size	H	C
3	.1248 (1/8)	.312 2	.187 3
4	.1873 (3/16)	.375 4	.250 5
6	.2498 (1/4)	.437 6	.312 7

* Two style codes available per bore size.
Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

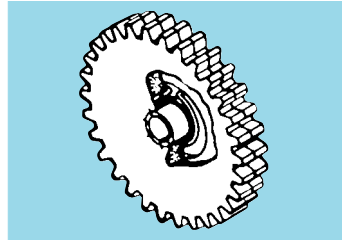
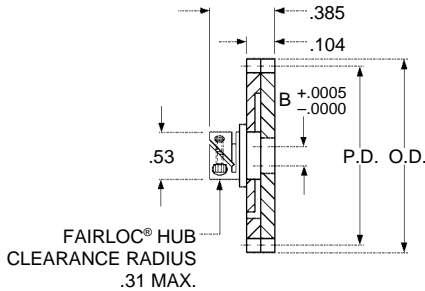


Fairloc® Hub Mini-Lash Gears - 64 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



CATALOG NUMBER DESIGNATION:

S 1 M 5 A - F 0 6 4 0

B, Bore Size

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

No. of Teeth

Material Code

- 303 Stainless Steel **S**
- 2024 Aluminum
T4 or T351 Alloy
Anodized before cutting **A**

HUBS: 303 Stainless Steel
SPRINGS: Torsion Type

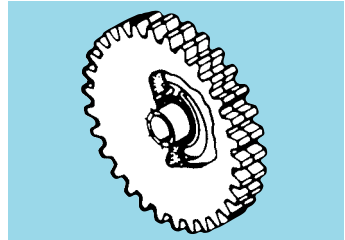
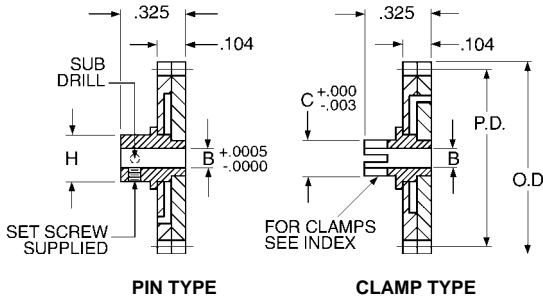
Example:
S1M53A-F064S054 is a Stainless Steel Mini-Lash Gear with 54 Teeth and .1248" Bore Fairloc® Hub.

No. of Teeth	P.D.	O.D.
40	0.6250	0.656
42	0.6563	0.688
44	0.6875	0.719
46	0.7188	0.750
48	0.7500	0.781
50	0.7813	0.813
52	0.8125	0.844
54	0.8438	0.875
56	0.8750	0.906
58	0.9063	0.938
60	0.9375	0.969
62	0.9688	1.000
64	1.0000	1.031
66	1.0313	1.063
68	1.0625	1.094
70	1.0938	1.125
72	1.1250	1.156
74	1.1563	1.188
76	1.1875	1.219
78	1.2188	1.250

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.

- AGMA Q10
- 20° PRESSURE ANGLE
- .104 FACE
- 1/8, 3/16 & 1/4 BORES



HUBS: 303 Stainless Steel
SPRINGS: Torsion Type

Example:
 S9713A-Z3E048-P is a Stainless Steel Clamp Type Mini-Lash Gear with 48 Teeth and .1248 Bore.

CATALOG NUMBER DESIGNATION:

S 97 1 **A - Z** **E** **P**

B Bore Code

- .1248 (1/8) **3**
- .1873 (3/16) **4**
- .2498 (1/4) **6**

Hub Style Code (See below)

- Pin Type **2, 4 or 6**
- Clamp Type **3, 5 or 7**

Material Code – Gears

- 303 Stainless Steel **-**
- 2024 Aluminum **A**
- T4 or T351 Alloy
- Anodized before cutting

No. of Teeth

No. of Teeth	P.D.	O.D.
32	0.5000	0.531
34	0.5312	0.563
36	0.5625	0.594
38	0.5937	0.625
40	0.6250	0.656
42	0.6562	0.688
44	0.6875	0.719
46	0.7187	0.750
48	0.7500	0.781
50	0.7812	0.813
52	0.8125	0.844
54	0.8437	0.875
56	0.8750	0.906
58	0.9062	0.938
60	0.9375	0.969
62	0.9687	1.000
64	1.0000	1.031
66	1.0312	1.063
68	1.0625	1.094
70	1.0937	1.125
72	1.1250	1.156
74	1.1562	1.188
76	1.1875	1.219
78	1.2187	1.250

Hub Style*

B Bore Selection		Pin Type		Clamp Type	
Code	Size	H		C	
		Dia.	Code	Dia.	Code
3	.1248 (1/8)	.312	2	.187	3
4	.1873 (3/16)	.375	4	.250	5
6	.2498 (1/4)	.437	6	.312	7

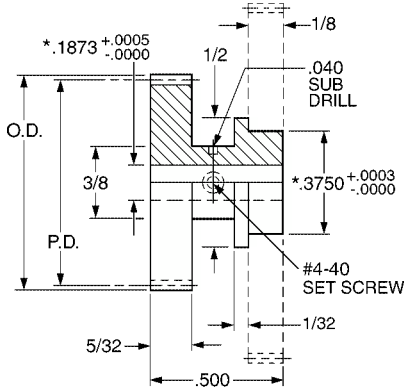
* Two style codes available per bore size.

Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for stainless steel.

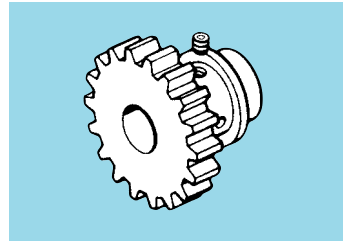
■ AGMA Q10

■ 20° PRESSURE ANGLE

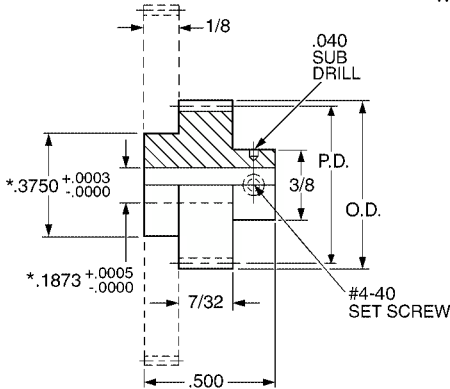
■ .1873 BORE



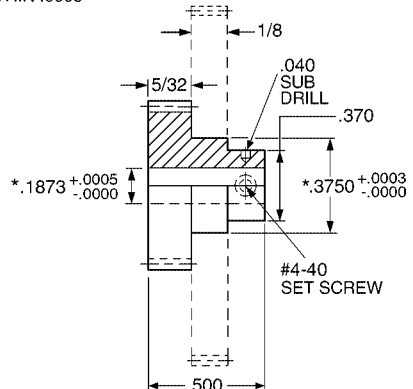
STYLE A



*CONCENTRIC WITHIN .0003



STYLE B



STYLE C

MATERIAL: 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
STYLE A	STYLE B	STYLE C			
S1F74Z-A080S035	S1F94Z-B080S035	S1F74Z-C080S035	35	.4375	.4625
S1F74Z-A080S040	S1F94Z-B080S040	S1F74Z-C080S040	40	.5000	.5250
S1F74Z-A080S050	S1F94Z-B080S050	S1F74Z-C080S050	50	.6250	.6500
S1F74Z-A080S060	S1F94Z-B080S060	S1F74Z-C080S060	60	.7500	.7750

NOTE: See S1268Z- series in the part number index for hubless gears that can be mounted on these cluster gears and hubs.

Available on special order: Teeth not listed, different pitch and bore size, passivation.

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

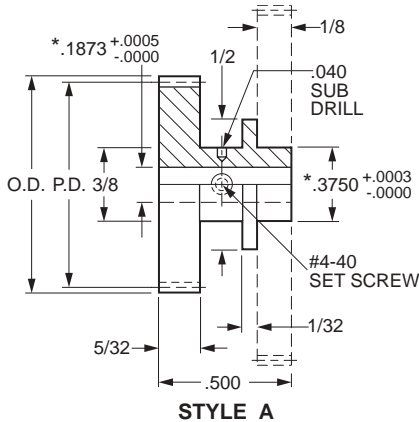
SDPSI Cluster Gears & Hubs - 72 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

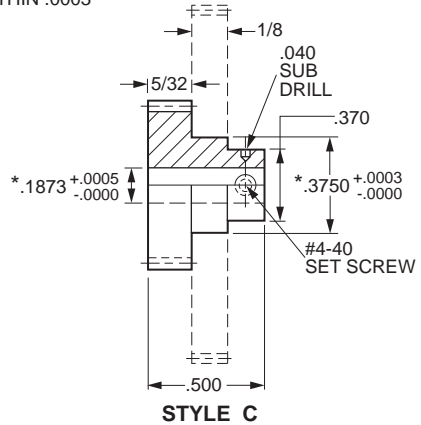
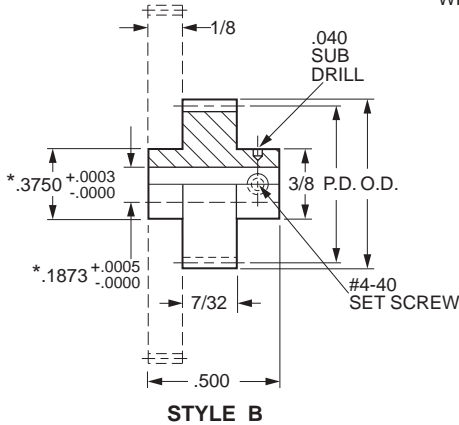
■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .1873 BORE



* CONCENTRIC WITHIN .0003



MATERIAL: 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
STYLE A	STYLE B	STYLE C			
S1F74Z-A072S030	S1F94Z-B072S030	S1F74Z-C072S030	30	.4167	.444
S1F74Z-A072S033	S1F94Z-B072S033	S1F74Z-C072S033	33	.4583	.486
S1F74Z-A072S035	S1F94Z-B072S035	S1F74Z-C072S035	35	.4861	.514
S1F74Z-A072S038	S1F94Z-B072S038	S1F74Z-C072S038	38	.5278	.556
S1F74Z-A072S040	S1F94Z-B072S040	S1F74Z-C072S040	40	.5555	.583
S1F74Z-A072S050	S1F94Z-B072S050	S1F74Z-C072S050	50	.6944	.722
S1F74Z-A072S060	S1F94Z-B072S060	S1F74Z-C072S060	60	.8333	.861

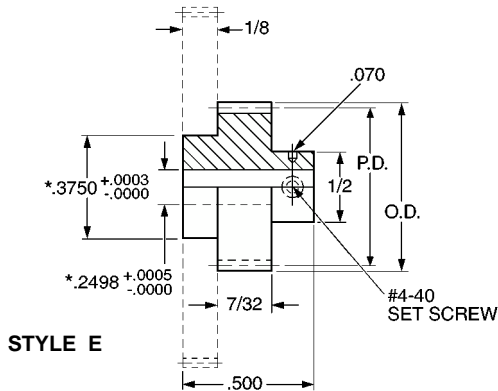
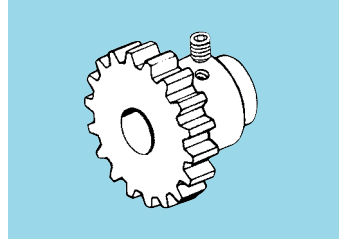
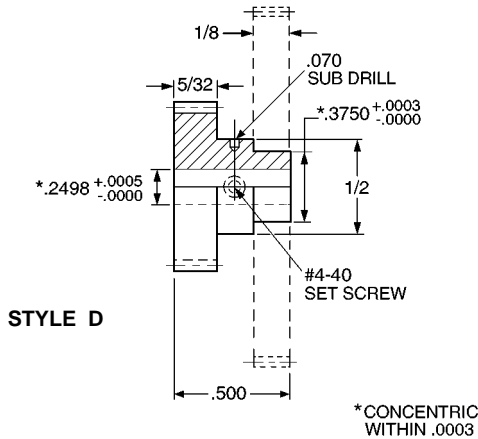
NOTE: See S1268Z- series in the part number index for hubless gears that can be mounted on these cluster gears and hubs.

Available on special order: Teeth not listed, different pitch, bore size and passivation.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .2498 BORE



MATERIAL: 303 Stainless Steel

Catalog Number		No. of Teeth	P.D.	O.D.
STYLE D	STYLE E			
S1F76Z-D072S040	S1F96Z-E072S040	40	.5556	.5833
S1F76Z-D072S050	S1F96Z-E072S050	50	.6944	.7222
S1F76Z-D072S060	S1F96Z-E072S060	60	.8333	.8611

NOTE: See S1268Z- series in the part number index for hubless gears that can be mounted on these cluster gears and hubs.

Available on special order: Teeth not listed, different pitch and bore size, passivation.



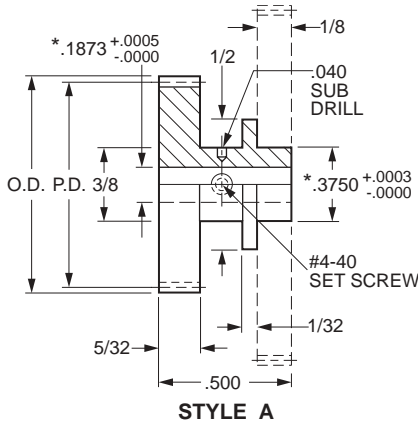
Cluster Gears & Hubs – 64 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

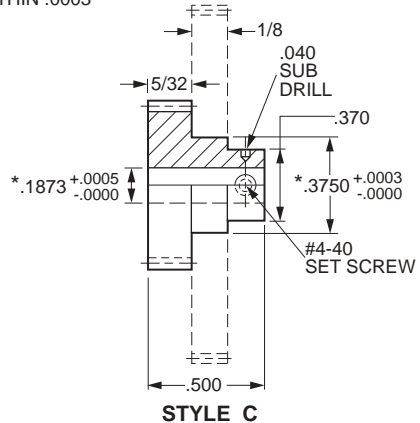
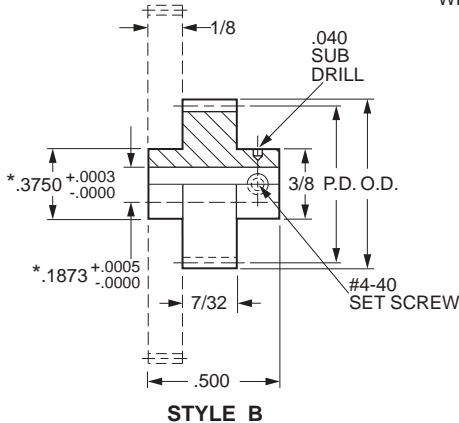
■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .1873 BORE



* CONCENTRIC WITHIN .0003



MATERIAL: 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
STYLE A	STYLE B	STYLE C			
S1F74Z-A064S025	S1F94Z-B064S025 ^Δ	S1F74Z-C064S025 ^Δ	25	.3906	.422
S1F74Z-A064S026	S1F94Z-B064S026 ^Δ	S1F74Z-C064S026 ^Δ	26	.4063	.438
S1F74Z-A064S028	S1F94Z-B064S028	S1F74Z-C064S028	28	.4375	.469
S1F74Z-A064S030	S1F94Z-B064S030	S1F74Z-C064S030	30	.4688	.500
S1F74Z-A064S032	S1F94Z-B064S032	S1F74Z-C064S032	32	.5000	.531
S1F74Z-A064S033	S1F94Z-B064S033	S1F74Z-C064S033	33	.5156	.547
S1F74Z-A064S040	S1F94Z-B064S040	S1F74Z-C064S040	40	.6250	.656
S1F74Z-A064S050	S1F94Z-B064S050	S1F74Z-C064S050	50	.7812	.813

^ΔHob cuts thru .3750 mounting diameter.

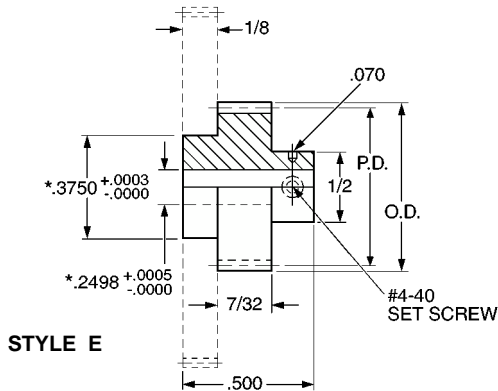
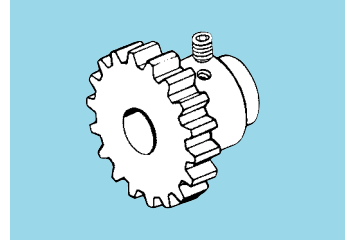
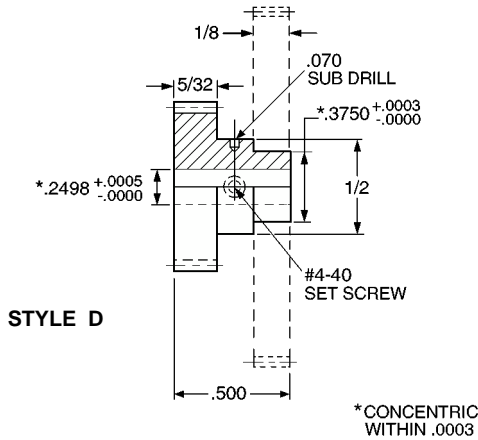
NOTE: See S1268Z- series in the part number index for hubless gears that can be mounted on these cluster gears and hubs.

Available on special order: Teeth not listed, different pitch, bore size and passivation.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .2498 BORE



MATERIAL: 303 Stainless Steel

Catalog Number		No. of Teeth	P.D.	O.D.
STYLE D	STYLE E			
S1F76Z-D064S030	S1F96Z-E064S030	30	.4688	.5000
S1F76Z-D064S040	S1F96Z-E064S040	40	.6250	.6563
S1F76Z-D064S050	S1F96Z-E064S050	50	.7813	.8125

NOTE: See S1268Z- series in the part number index for hubless gears that can be mounted on these cluster gears and hubs.

Available on special order: Teeth not listed, different pitch and bore size, passivation.



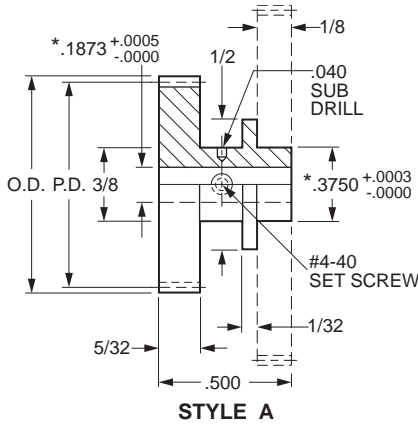
Cluster Gears & Hubs – 48 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ AGMA Q10

■ 20° PRESSURE ANGLE

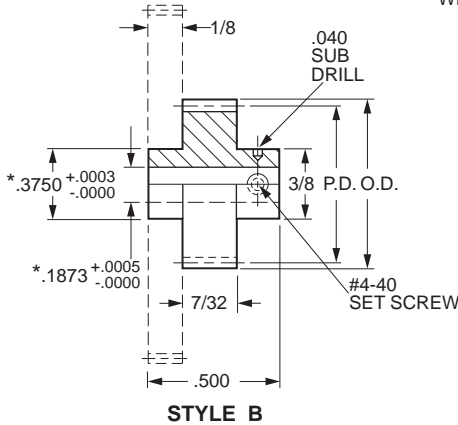
■ .1873 BORE



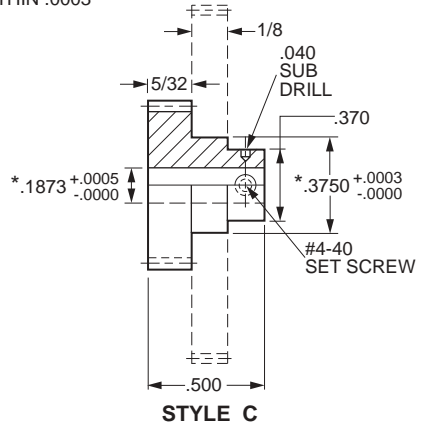
STYLE A



* CONCENTRIC WITHIN .0003



STYLE B



STYLE C

MATERIAL: 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	O.D.
STYLE A	STYLE B	STYLE C			
S1F74Z-A048S020	S1F94Z-B048S020 ^Δ	S1F74Z-C048S020 ^Δ	20	.4167	.458
S1F74Z-A048S022	S1F94Z-B048S022	S1F74Z-C048S022	22	.4583	.500
S1F74Z-A048S023	S1F94Z-B048S023	S1F74Z-C048S023	23	.4792	.521
S1F74Z-A048S024	S1F94Z-B048S024	S1F74Z-C048S024	24	.5000	.542
S1F74Z-A048S030	S1F94Z-B048S030	S1F74Z-C048S030	30	.6250	.667
S1F74Z-A048S040	S1F94Z-B048S040	S1F74Z-C048S040	40	.8333	.875

^ΔHob cuts thru .3750 mounting diameter.

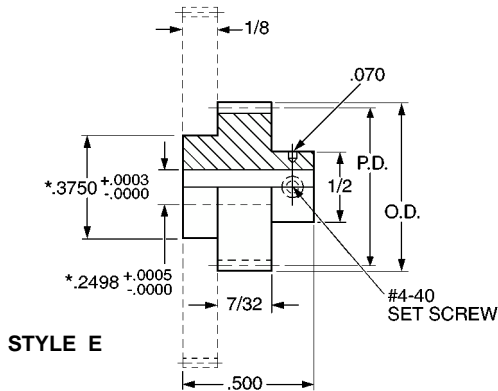
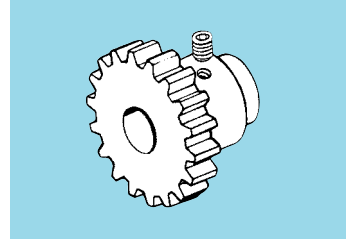
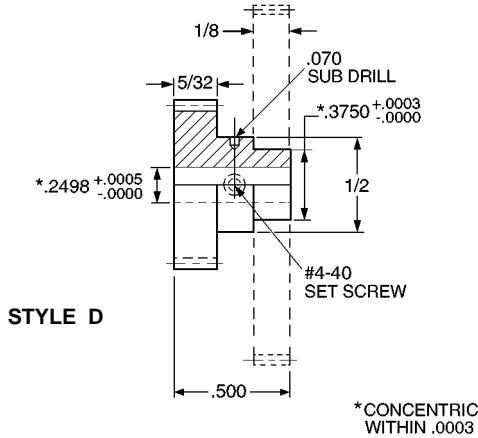
NOTE: See S1268Z- series in the part number index for hubless gears that can be mounted on these cluster gears and hubs.

Available on special order: Teeth not listed, different pitch, bore size and passivation.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .2498 BORE



MATERIAL: 303 Stainless Steel

Catalog Number		No. of Teeth	P.D.	O.D.
STYLE D	STYLE E			
S1F76Z-D048S025	S1F96Z-E048S025	25	.5208	.5625
S1F76Z-D048S030	S1F96Z-E048S030	30	.6250	.6667

NOTE: See S1268Z- series in the part number index for hubless gears that can be mounted on these cluster gears and hubs.

Available on special order: Teeth not listed, different pitch and bore size, passivation.

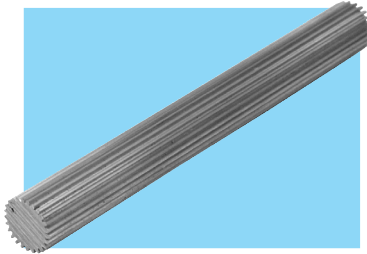
Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch



Pinion Wire - 64 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827


- 14-1/2° AND 20° PRESSURE ANGLE ■ EXTRUDED ■ BRASS AND STEEL



Supplied in random lengths.
Priced Per Foot

Catalog Number				No. of Teeth	P.D.	O.D.
14 1/2° Pressure Angle		20° Pressure Angle				
Brass	Steel	Brass	Steel			
_____	A 1C 9-N64008	A 1B 9-Y64008	A 1C 9-Y64008	8	.125	.156
_____	_____	A 1B 9-Y64009	A 1C 9-Y64009	9	.141	.172
A 1B 9-N64010	A 1C 9-N64010	A 1B 9-Y64010	A 1C 9-Y64010	10	.156	.188
A 1B 9-N64011	A 1C 9-N64011	A 1B 9-Y64011	A 1C 9-Y64011	11	.172	.203
A 1B 9-N64012	_____	A 1B 9-Y64012	A 1C 9-Y64012	12	.188	.219
A 1B 9-N64013	_____	A 1B 9-Y64013	_____	13	.203	.234
A 1B 9-N64014	A 1C 9-N64014	A 1B 9-Y64014	A 1C 9-Y64014	14	.219	.250
A 1B 9-N64015	_____	A 1B 9-Y64015	A 1C 9-Y64015	15	.234	.266
A 1B 9-N64016	A 1C 9-N64016	A 1B 9-Y64016	A 1C 9-Y64016	16	.250	.281
_____	A 1C 9-N64018	A 1B 9-Y64018	A 1C 9-Y64018	18	.281	.313
A 1B 9-N64020	A 1C 9-N64020	A 1B 9-Y64020	A 1C 9-Y64020	20	.313	.344
_____	_____	A 1B 9-Y64021	_____	21	.328	.359
_____	_____	A 1B 9-Y64023	_____	23	.359	.391
A 1B 9-N64025	_____	A 1B 9-Y64024	_____	24	.375	.406
A 1B 9-N64026	_____	_____	_____	25	.391	.422
_____	_____	_____	_____	26	.406	.438
_____	_____	A 1B 9-Y64030	_____	30	.469	.500
_____	_____	A 1B 9-Y64034	_____	34	.531	.563
A 1B 9-N64036	_____	A 1B 9-Y64036	_____	36	.563	.594
A 1B 9-N64048	_____	A 1B 9-Y64048	_____	48	.750	.781
A 1B 9-N64060	_____	A 1B 9-Y64060	_____	60	.938	.969

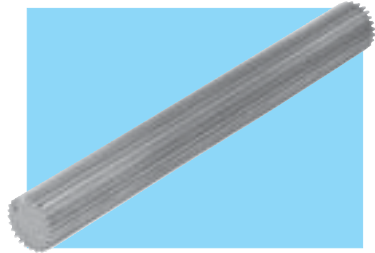
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Pinion Wire - 48 & 44 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 14-1/2° & 20° PRESSURE ANGLE
■ EXTRUDED
■ BRASS AND STEEL



Supplied in random lengths.
Priced Per Foot

● 48 PITCH

Catalog Number				No. of Teeth	P.D.	O.D.
14 1/2° Pressure Angle		20° Pressure Angle				
Brass	Steel	Brass	Steel			
A 1B 9-N48006	A 1C 9-N48006	A 1B 9-Y48006	A 1C 9-Y48006	6	.125	.167
A 1B 9-N48007	A 1C 9-N48007	A 1B 9-Y48007	A 1C 9-Y48007	7	.146	.188
A 1B 9-N48008	A 1C 9-N48008	A 1B 9-Y48008	A 1C 9-Y48008	8	.167	.208
A 1B 9-N48009	A 1C 9-N48009	A 1B 9-Y48009	A 1C 9-Y48009	9	.188	.229
A 1B 9-N48010	A 1C 9-N48010	A 1B 9-Y48010	A 1C 9-Y48010	10	.208	.250
A 1B 9-N48011	_____	A 1B 9-Y48011	A 1C 9-Y48011	11	.229	.271
A 1B 9-N48012	A 1C 9-N48012	A 1B 9-Y48012	A 1C 9-Y48012	12	.250	.292
A 1B 9-N48013	_____	A 1B 9-Y48013	A 1C 9-Y48013	13	.271	.313
A 1B 9-N48014	A 1C 9-N48014	A 1B 9-Y48014	A 1C 9-Y48014	14	.292	.333
A 1B 9-N48015	A 1C 9-N48015	A 1B 9-Y48015	A 1C 9-Y48015	15	.313	.354
A 1B 9-N48016	A 1C 9-N48016	A 1B 9-Y48016	A 1C 9-Y48016	16	.333	.375
A 1B 9-N48017	_____	A 1B 9-Y48017	A 1C 9-Y48017	17	.354	.396
A 1B 9-N48018	A 1C 9-N48018	A 1B 9-Y48018	A 1C 9-Y48018	18	.375	.417
A 1B 9-N48020	A 1C 9-N48020	A 1B 9-Y48020	A 1C 9-Y48020	20	.417	.458
A 1B 9-N48021	A 1C 9-N48021	A 1B 9-Y48021	A 1C 9-Y48021	21	.438	.479
A 1B 9-N48022	A 1C 9-N48022	A 1B 9-Y48022	A 1C 9-Y48022	22	.458	.500
A 1B 9-N48024	A 1C 9-N48024	A 1B 9-Y48024	A 1C 9-Y48024	24	.500	.542
A 1B 9-N48025	_____	A 1B 9-Y48025	A 1C 9-Y48025	25	.521	.563
A 1B 9-N48026	A 1C 9-N48026	A 1B 9-Y48026	A 1C 9-Y48026	26	.542	.583
_____	_____	A 1B 9-Y48027	_____	27	.563	.604
A 1B 9-N48028	_____	A 1B 9-Y48028	_____	28	.583	.625
A 1B 9-N48030	A 1C 9-N48030	A 1B 9-Y48030	A 1C 9-Y48030	30	.625	.667
A 1B 9-N48032	A 1C 9-N48032	A 1B 9-Y48032	A 1C 9-Y48032	32	.667	.708
A 1B 9-N48034	_____	A 1B 9-Y48034	_____	34	.708	.750
A 1B 9-N48036	_____	A 1B 9-Y48036	_____	36	.750	.792
_____	_____	A 1B 9-Y48040	_____	40	.833	.875
A 1B 9-N48045	_____	_____	_____	45	.938	.979
A 1B 9-N48048	_____	_____	_____	48	1.000	1.042


Supplied in random lengths.

● 44 PITCH

Priced Per Foot

Catalog Number	No. of Teeth	P.D.	O.D.
20° Pressure Angle			
Steel			
A 1C 9-Y44010	10	.227	.273

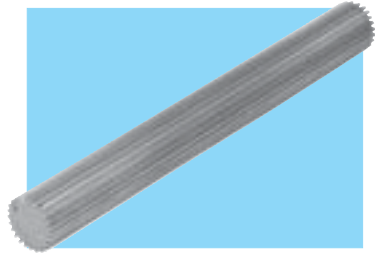
Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch



Pinion Wire - 32 & 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 14-1/2° & 20° PRESSURE ANGLE ■ EXTRUDED ■ BRASS & STEEL



● 32 PITCH

Supplied in random lengths.
Priced Per Foot

Catalog Number				No. of Teeth	P.D.	O.D.
14-1/2° Pressure Angle		20° Pressure Angle				
Brass	Steel	Brass	Steel			
A 1B 9-N32006	A 1C 9-N32006	A 1B 9-Y32006	A 1C 9-Y32006	6	.188	.250
A 1B 9-N32008	A 1C 9-N32008	A 1B 9-Y32008	A 1C 9-Y32008	8	.250	.313
A 1B 9-N32009	A 1C 9-N32009	A 1B 9-Y32009	A 1C 9-Y32009	9	.281	.344
A 1B 9-N32010	A 1C 9-N32010	A 1B 9-Y32010	A 1C 9-Y32010	10	.313	.375
A 1B 9-N32011	A 1C 9-N32011	A 1B 9-Y32011	A 1C 9-Y32011	11	.344	.406
A 1B 9-N32012	A 1C 9-N32012	A 1B 9-Y32012	A 1C 9-Y32012	12	.375	.438
A 1B 9-N32013	A 1C 9-N32013	A 1B 9-Y32013	A 1C 9-Y32013	13	.406	.469
A 1B 9-N32014	A 1C 9-N32014	A 1B 9-Y32014	A 1C 9-Y32014	14	.438	.500
A 1B 9-N32015	_____	A 1B 9-Y32015	A 1C 9-Y32015	15	.469	.531
A 1B 9-N32016	A 1C 9-N32016	A 1B 9-Y32016	A 1C 9-Y32016	16	.500	.563
A 1B 9-N32018	A 1C 9-N32018	A 1B 9-Y32018	A 1C 9-Y32018	18	.563	.625
A 1B 9-N32020	A 1C 9-N32020	A 1B 9-Y32020	A 1C 9-Y32020	20	.625	.688
A 1B 9-N32022	A 1C 9-N32022	_____	A 1C 9-Y32022	22	.688	.750
A 1B 9-N32024	A 1C 9-N32024	A 1B 9-Y32024	A 1C 9-Y32024	24	.750	.813
A 1B 9-N32028	_____	_____	_____	28	.875	.938
A 1B 9-N32032	_____	_____	_____	32	1.000	1.063

● 24 PITCH

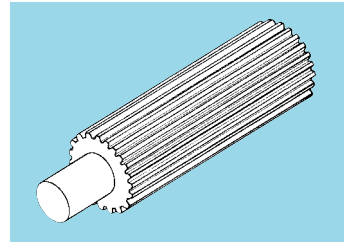
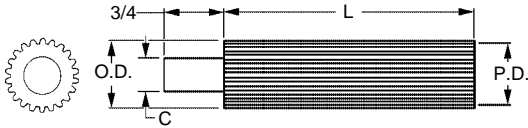
Supplied in random lengths.
Priced Per Foot

Catalog Number				No. of Teeth	P.D.	O.D.
14-1/2° Pressure Angle		20° Pressure Angle				
Brass	Steel	Brass	Steel			
A 1B 9-N24006	A 1C 9-N24006	_____	_____	6	.250	.333
A 1B 9-N24007	A 1C 9-N24007	_____	_____	7	.292	.375
A 1B 9-N24008	A 1C 9-N24008	A 1B 9-Y24008	A 1C 9-Y24008	8	.333	.417
A 1B 9-N24009	A 1C 9-N24009	A 1B 9-Y24009	A 1C 9-Y24009	9	.375	.458
A 1B 9-N24010	A 1C 9-N24010	A 1B 9-Y24010	A 1C 9-Y24010	10	.417	.500
A 1B 9-N24011	A 1C 9-N24011	A 1B 9-Y24011	A 1C 9-Y24011	11	.458	.542
A 1B 9-N24012	A 1C 9-N24012	A 1B 9-Y24012	A 1C 9-Y24012	12	.500	.583
A 1B 9-N24014	A 1C 9-N24014	A 1B 9-Y24014	A 1C 9-Y24014	14	.583	.667
A 1B 9-N24015	A 1C 9-N24015	_____	A 1C 9-Y24015	15	.625	.708
A 1B 9-N24016	A 1C 9-N24016	A 1B 9-Y24016	A 1C 9-Y24016	16	.667	.750
A 1B 9-N24018	A 1C 9-N24018	A 1B 9-Y24018	A 1C 9-Y24018	18	.750	.833
A 1B 9-N24020	A 1C 9-N24020	_____	_____	20	.833	.917
A 1B 9-N24024	_____	_____	_____	24	1.000	1.083



Spur Gear Stock - 48 & 32 Pitch

■ 14-1/2° AND 20° PRESSURE ANGLE



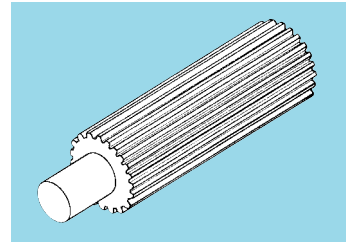
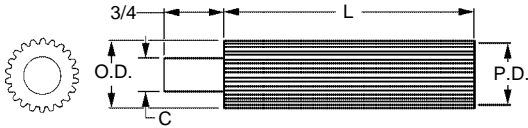
MATERIAL: Steel

Catalog Number		Pitch	No. of Teeth	P.D.	O.D.	C Shank Diameter	L Minimum Usable Length
14-1/2° P.A.	20° P.A.						
A 1C29-N48014	A 1C29-Y48014	48	14	0.292	0.333	7/32	3
A 1C29-N48016	A 1C29-Y48016		16	0.333	0.375	1/4	3
A 1C29-N48020	A 1C29-Y48020		20	0.417	0.458		
A 1C29-N48022	A 1C29-Y48022		22	0.458	0.500		
A 1C29-N48026	A 1C29-Y48026		26	0.542	0.583		
A 1C29-N48030	A 1C29-Y48030		30	0.625	0.667	3/8	3
A 1C29-N48032	A 1C29-Y48032		32	0.667	0.708		
A 1C29-N48040	A 1C29-Y48040		40	0.833	0.875	3/8	6
A 1C29-N48044	A 1C29-Y48044		44	0.917	0.958		
A 1C29-N48048	A 1C29-Y48048		48	1.000	1.042		
A 1C29-N48052	A 1C29-Y48052		52	1.083	1.125	1/2	6
A 1C29-N48056	A 1C29-Y48056		56	1.167	1.208		
A 1C29-N48060	A 1C29-Y48060		60	1.250	1.292		
A 1C29-N48064	A 1C29-Y48064		64	1.333	1.375		
A 1C29-N48072	A 1C29-Y48072		72	1.500	1.542		
A 1C29-N48080	A 1C29-Y48080		80	1.667	1.708	1/2	8
A 1C29-N48096	A 1C29-Y48096	96	2.000	2.042			
A 1C29-N48100	A 1C29-Y48100	100	2.083	2.125	3/4	8	
A 1C29-N48108	A 1C29-Y48108	108	2.250	2.292			
A 1C29-N48120	A 1C29-Y48120	120	2.500	2.542			
A 1C29-N32016	A 1C29-Y32016	16	0.500	0.563			1/4
A 1C29-N32018	A 1C29-Y32018	18	0.563	0.625	3/8	3	
A 1C29-N32020	A 1C29-Y32020	20	0.625	0.688			
A 1C29-N32022	A 1C29-Y32022	22	0.688	0.750			
A 1C29-N32024	A 1C29-Y32024	24	0.750	0.813	3/8	6	
A 1C29-N32032	A 1C29-Y32032	32	1.000	1.063			
A 1C29-N32036	A 1C29-Y32036	36	1.125	1.188			1/2
A 1C29-N32038	A 1C29-Y32038	38	1.188	1.250			
A 1C29-N32040	A 1C29-Y32040	40	1.250	1.313			
A 1C29-N32044	A 1C29-Y32044	44	1.375	1.438			
A 1C29-N32048	A 1C29-Y32048	48	1.500	1.563			
A 1C29-N32054	A 1C29-Y32054	54	1.688	1.750	1/2	8	
A 1C29-N32060	A 1C29-Y32060	60	1.875	1.938			
A 1C29-N32064	A 1C29-Y32064	64	2.000	2.063			
A 1C29-N32072	A 1C29-Y32072	72	2.250	2.313	3/4	8	
A 1C29-N32080	A 1C29-Y32080	80	2.500	2.563			
A 1C29-N32084	A 1C29-Y32084	84	2.625	2.688			
A 1C29-N32096	A 1C29-Y32096	96	3.000	3.063			



Spur Gear Stock - 24 & 20 Pitch

■ 14-1/2° AND 20° PRESSURE ANGLE



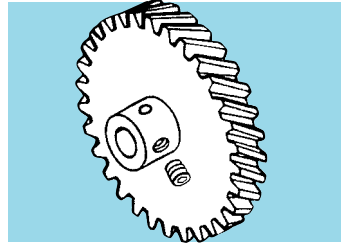
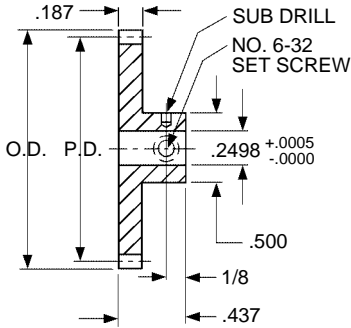
MATERIAL : Steel

Catalog Number		Pitch	No. of Teeth	P.D.	O.D.	C Shank Diameter	L Minimum Usable Length
14-1/2° P.A.	20° P.A.						
A 1C29-N24012	A 1C29-Y24012	24	12	0.500	0.583	1/4	3
A 1C29-N24014	A 1C29-Y24014		14	0.583	0.667	3/8	3
A 1C29-N24015	A 1C29-Y24015		15	0.625	0.708		3
A 1C29-N24016	A 1C29-Y24016		16	0.667	0.750		6
A 1C29-N24018	A 1C29-Y24018		18	0.750	0.833	3/8	6
A 1C29-N24020	A 1C29-Y24020		20	0.833	0.917		
A 1C29-N24024	A 1C29-Y24024		24	1.000	1.083		
A 1C29-N24030	A 1C29-Y24030		30	1.250	1.333	1/2	6
A 1C29-N24036	A 1C29-Y24036		36	1.500	1.583	1/2	
A 1C29-N24042	A 1C29-Y24042		42	1.750	1.833		
A 1C29-N24048	A 1C29-Y24048		48	2.000	2.083		8
A 1C29-N24054	A 1C29-Y24054		54	2.250	2.333	3/4	8
A 1C29-N24060	A 1C29-Y24060	60	2.500	2.583			
A 1C29-N24066	A 1C29-Y24066	66	2.750	2.833			
A 1C29-N24072	A 1C29-Y24072	72	3.000	3.083			
A 1C29-N20012	A 1C29-Y20012	20	12	0.600	0.700	3/8	3
A 1C29-N20014	A 1C29-Y20014		14	0.700	0.800		3
A 1C29-N20015	A 1C29-Y20015		15	0.750	0.850		6
A 1C29-N20016	A 1C29-Y20016		16	0.800	0.900	3/8	6
A 1C29-N20018	A 1C29-Y20018		18	0.900	1.000		
A 1C29-N20020	A 1C29-Y20020		20	1.000	1.100		
A 1C29-N20024	A 1C29-Y20024		24	1.200	1.300	1/2	6
A 1C29-N20030	A 1C29-Y20030		30	1.500	1.600		
A 1C29-N20035	A 1C29-Y20035		35	1.750	1.850		
A 1C29-N20040	A 1C29-Y20040		40	2.000	2.100		
A 1C29-N20045	A 1C29-Y20045		45	2.250	2.350		
A 1C29-N20050	A 1C29-Y20050		50	2.500	2.600	3/4	8
A 1C29-N20060	A 1C29-Y20060	60	3.000	3.100			



Helical Gears - 48 Normal Pitch

- AGMA Q10
- 20° PRESSURE ANGLE
- 3/16 FACE
- 1/4 BORE
- 45° HELICAL ANGLE
- RIGHT- AND LEFT-HAND



MATERIAL: 303 Stainless Steel

Catalog Number		No. of Teeth	P.D.	O.D.
Right-Hand	Left-Hand			
S1R86Z-P048S020	S1L86Z-P048S020	20	0.5892	0.631
S1R86Z-P048S025	S1L86Z-P048S025	25	0.7365	0.778
S1R86Z-P048S030	S1L86Z-P048S030	30	0.8838	0.925
S1R86Z-P048S035	S1L86Z-P048S035	35	1.0311	1.072
S1R86Z-P048S040	S1L86Z-P048S040	40	1.1784	1.220
S1R86Z-P048S045	S1L86Z-P048S045	45	1.3258	1.367
S1R86Z-P048S050	S1L86Z-P048S050	50	1.4730	1.514
S1R86Z-P048S060	S1L86Z-P048S060	60	1.7676	1.809
S1R86Z-P048S070	S1L86Z-P048S070	70	2.0622	2.104
S1R86Z-P048S080	S1L86Z-P048S080	80	2.3568	2.398
S1R86Z-P048S090	S1L86Z-P048S090	90	2.6516	2.693
S1R86Z-P048S100	S1L86Z-P048S100	100	2.9460	2.987

MATERIAL: 2024 Aluminum, Anodized *

Catalog Number		No. of Teeth	P.D.	O.D.
Right-Hand	Left-Hand			
S1R86Z-P048A020	S1L86Z-P048A020	20	0.5892	0.631
S1R86Z-P048A025	S1L86Z-P048A025	25	0.7365	0.778
S1R86Z-P048A030	S1L86Z-P048A030	30	0.8838	0.925
S1R86Z-P048A035	S1L86Z-P048A035	35	1.0311	1.072
S1R86Z-P048A040	S1L86Z-P048A040	40	1.1784	1.220
S1R86Z-P048A045	S1L86Z-P048A045	45	1.3258	1.367
S1R86Z-P048A050	S1L86Z-P048A050	50	1.4730	1.514
S1R86Z-P048A060	S1L86Z-P048A060	60	1.7676	1.809
S1R86Z-P048A070	S1L86Z-P048A070	70	2.0622	2.104
S1R86Z-P048A080	S1L86Z-P048A080	80	2.3568	2.398
S1R86Z-P048A090	S1L86Z-P048A090	90	2.6516	2.693
S1R86Z-P048A100	S1L86Z-P048A100	100	2.9460	2.987

* T4 or T351 Aluminum Alloy, anodized before cutting.

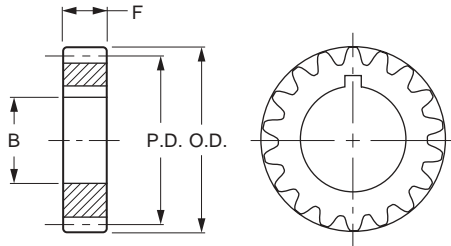
Available on special order: Teeth not listed, different bore and/or material, passivation for stainless steel.



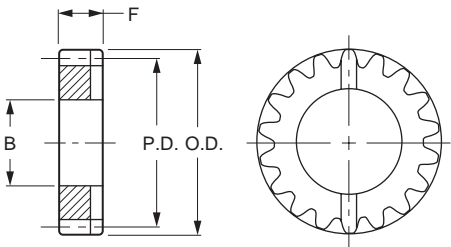
Helical Gears - 20 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 14-1/2° PRESSURE ANGLE
- RIGHT- AND LEFT-HAND
- 45° HELIX



REGULAR KEY SLOT



* FACE KEY SLOT



MATERIAL: Steel (Hardened)

• 28.28 NORMAL DIAMETRAL PITCH

Catalog Number ^Δ		No. of Teeth	P.D.	O.D.	B Bore	F Face Width	Keyway width x depth
Right-Hand	Left-Hand						
—	*A 1C 7-N20010L	10	.500	.571	5/16	9/16	3/32 x 3/32
—	*A 1C 7-N20012L	12	.600	.671	3/8	9/16	3/32 x 3/32
A 1C 7-N20025R	—	25	1.250	1.321	5/8	3/8	1/8 x 1/16
A 1C 7-N20050R	—	50	2.500	2.571	3/4	3/8	3/16 x 3/32

* Face key slot cut on end of gear.

NOTE: For 25 to 50 teeth, only O.D. hardened.

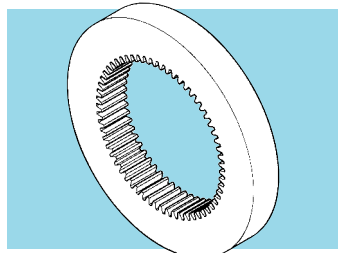
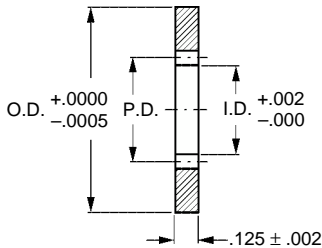
^Δ All parts will be discontinued when present stock is depleted.

Gears other than standard stock sizes are available on special order.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE



MATERIAL: 303 Stainless Steel
2024-T4 Aluminum Chromic Anodized Before Cutting

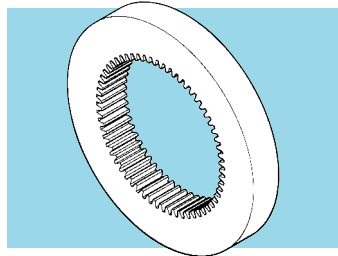
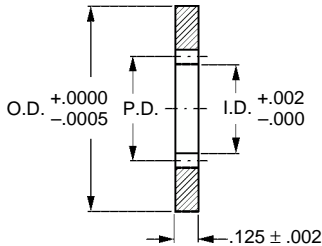
Catalog Number		Pitch	No. of Teeth	P.D.	I.D.	O.D.
Stainless Steel	Aluminum					
S1E62Z-096S080	S1E62Z-096A080	96	80	0.8333	0.813	1.998
S1E62Z-096S100	S1E62Z-096A100		100	1.0417	1.021	
S1E62Z-096S120	S1E62Z-096A120		120	1.2500	1.229	
S1E62Z-096S140	S1E62Z-096A140		140	1.4583	1.438	
S1E62Z-096S150	S1E62Z-096A150		150	1.5625	1.542	
S1E63Z-096S150	S1E63Z-096A150		150	1.5625	1.542	2.998
S1E63Z-096S160	S1E63Z-096A160		160	1.6667	1.646	
S1E63Z-096S180	S1E63Z-096A180		180	1.8750	1.854	
S1E63Z-096S200	S1E63Z-096A200		200	2.0833	2.063	
S1E63Z-096S240	S1E63Z-096A240		240	2.5000	2.479	
S1E64Z-096S240	S1E64Z-096A240		240	2.5000	2.479	3.998
S1E64Z-096S250	S1E64Z-096A250		250	2.6042	2.583	
S1E64Z-096S260	S1E64Z-096A260		260	2.7083	2.688	
S1E64Z-096S280	S1E64Z-096A280		280	2.9167	2.896	
S1E64Z-096S288	S1E64Z-096A288		288	3.0000	2.979	
S1E64Z-096S300	S1E64Z-096A300	300	3.1250	3.104		
S1E62Z-072S060	S1E62Z-072A060	72	60	0.8333	0.805	
S1E62Z-072S080	S1E62Z-072A080		80	1.1111	1.083	
S1E62Z-072S100	S1E62Z-072A100		100	1.3889	1.361	
S1E62Z-072S110	S1E62Z-072A110		110	1.5278	1.500	
S1E63Z-072S110	S1E63Z-072A110		110	1.5278	1.500	2.998
S1E63Z-072S120	S1E63Z-072A120		120	1.6667	1.639	
S1E63Z-072S140	S1E63Z-072A140		140	1.9444	1.916	
S1E63Z-072S160	S1E63Z-072A160		160	2.2222	2.194	
S1E63Z-072S180	S1E63Z-072A180		180	2.5000	2.472	
S1E64Z-072S180	S1E64Z-072A180		180	2.5000	2.472	3.998
S1E64Z-072S190	S1E64Z-072A190		190	2.6389	2.611	
S1E64Z-072S200	S1E64Z-072A200		200	2.7778	2.750	
S1E64Z-072S216	S1E64Z-072A216		216	3.0000	2.972	
S1E64Z-072S220	S1E64Z-072A220		220	3.0556	3.027	

Available on special order: 14-1/2° P.A., teeth not listed, different material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE



MATERIAL: 303 Stainless Steel
2024-T4 Aluminum Chromic Anodized Before Cutting

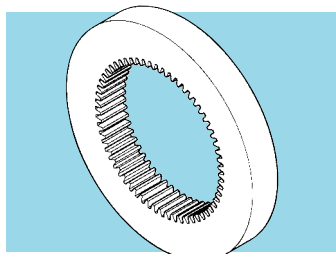
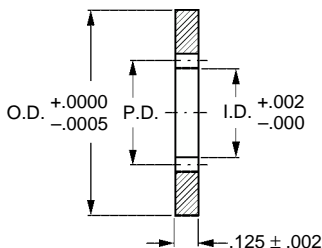
Catalog Number		Pitch	No. of Teeth	P.D.	I.D.	O.D.
Stainless Steel	Aluminum					
S1E62Z-064S050	S1E62Z-064A050	64	50	0.7813	0.750	1.998
S1E62Z-064S060	S1E62Z-064A060		60	0.9375	0.906	
S1E62Z-064S070	S1E62Z-064A070		70	1.0938	1.062	
S1E62Z-064S080	S1E62Z-064A080		80	1.2500	1.219	
S1E62Z-064S090	S1E62Z-064A090		90	1.4063	1.375	
S1E63Z-064S090	S1E63Z-064A090		90	1.4063	1.375	2.998
S1E63Z-064S100	S1E63Z-064A100		100	1.5625	1.531	
S1E63Z-064S120	S1E63Z-064A120		120	1.8750	1.843	
S1E63Z-064S140	S1E63Z-064A140		140	2.1875	2.156	
S1E63Z-064S160	S1E63Z-064A160		160	2.5000	2.468	
S1E64Z-064S160	S1E64Z-064A160		160	2.5000	2.468	
S1E64Z-064S170	S1E64Z-064A170		170	2.6563	2.625	3.998
S1E64Z-064S180	S1E64Z-064A180		180	2.8125	2.781	
S1E64Z-064S192	S1E64Z-064A192		192	3.0000	2.968	
S1E64Z-064S200	S1E64Z-064A200		200	3.1250	3.093	
S1E62Z-048S040	S1E62Z-048A040		48	40	0.8333	
S1E62Z-048S050	S1E62Z-048A050	50		1.0417	1.000	
S1E62Z-048S060	S1E62Z-048A060	60		1.2500	1.208	
S1E62Z-048S070	S1E62Z-048A070	70		1.4583	1.416	
S1E63Z-048S070	S1E63Z-048A070	70		1.4583	1.416	2.998
S1E63Z-048S080	S1E63Z-048A080	80		1.6667	1.625	
S1E63Z-048S090	S1E63Z-048A090	90		1.8750	1.833	
S1E63Z-048S100	S1E63Z-048A100	100		2.0833	2.041	
S1E63Z-048S120	S1E63Z-048A120	120		2.5000	2.458	
S1E64Z-048S120	S1E64Z-048A120	120		2.5000	2.458	
S1E64Z-048S130	S1E64Z-048A130	130		2.7083	2.666	
S1E64Z-048S140	S1E64Z-048A140	140		2.9167	2.875	
S1E64Z-048S144	S1E64Z-048A144	144		3.0000	2.958	
S1E64Z-048S156	S1E64Z-048A156	156		3.2500	3.208	

Available on special order: 14-1/2° P.A., teeth not listed, different material, passivation for stainless steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE



MATERIAL: 303 Stainless Steel
2024-T4 Aluminum Chromic Anodized Before Cutting

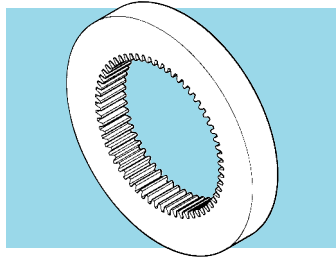
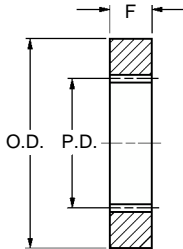
Catalog Number		Pitch	No. of Teeth	P.D.	I.D.	O.D.
Stainless Steel	Aluminum					
S1E62Z-032S025	S1E62Z-032A025	32	25	0.7813	0.718	1.998
S1E62Z-032S030	S1E62Z-032A030		30	0.9375	0.875	
S1E62Z-032S035	S1E62Z-032A035		35	1.0938	1.031	
S1E62Z-032S040	S1E62Z-032A040		40	1.2500	1.187	
S1E62Z-032S045	S1E62Z-032A045		45	1.4063	1.343	
S1E63Z-032S045	S1E63Z-032A045		45	1.4063	1.343	2.998
S1E63Z-032S050	S1E63Z-032A050		50	1.5625	1.500	
S1E63Z-032S060	S1E63Z-032A060		60	1.8750	1.812	
S1E63Z-032S070	S1E63Z-032A070		70	2.1875	2.125	
S1E63Z-032S080	S1E63Z-032A080		80	2.5000	2.437	
S1E64Z-032S080	S1E64Z-032A080	80	2.5000	2.437	3.998	
S1E64Z-032S085	S1E64Z-032A085	85	2.6563	2.593		
S1E64Z-032S090	S1E64Z-032A090	90	2.8125	2.750		
S1E64Z-032S096	S1E64Z-032A096	96	3.0000	2.937		
S1E64Z-032S100	S1E64Z-032A100	100	3.1250	3.062		
S1E62Z-024S020	S1E62Z-024A020	24	20	0.8333	0.750	1.998
S1E62Z-024S025	S1E62Z-024A025		25	1.0417	0.958	
S1E62Z-024S030	S1E62Z-024A030		30	1.2500	1.166	
S1E62Z-024S035	S1E62Z-024A035		35	1.4583	1.375	
S1E63Z-024S035	S1E63Z-024A035		35	1.4583	1.375	
S1E63Z-024S040	S1E63Z-024A040		40	1.6667	1.583	2.998
S1E63Z-024S045	S1E63Z-024A045		45	1.8750	1.791	
S1E63Z-024S050	S1E63Z-024A050		50	2.0833	2.000	
S1E63Z-024S060	S1E63Z-024A060		60	2.5000	2.416	
S1E64Z-024S060	S1E64Z-024A060		60	2.5000	2.416	
S1E64Z-024S065	S1E64Z-024A065	65	2.7083	2.625	3.998	
S1E64Z-024S070	S1E64Z-024A070	70	2.9167	2.834		
S1E64Z-024S072	S1E64Z-024A072	72	3.0000	2.916		
S1E64Z-024S078	S1E64Z-024A078	78	3.2500	3.166		

Available on special order: 14-1/2° P.A., teeth not listed, different material, passivation for stainless steel.



Internal Gears - 48, 32 & 24 Pitch

■ 14-1/2° PRESSURE ANGLE



● 48 PITCH

MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	F Face Width
A 1B10-N48048	48	1.000	1-1/2	1/8
A 1B10-N48072	72	1.500	2	
A 1B10-N48084	84	1.750	2-1/2	
A 1B10-N48096	96	2.000	2-3/4	
A 1B10-N48120	120	2.500	3-1/4	

● 32 PITCH

MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	F Face Width
A 1B10-N32032	32	1.000	1-1/2	3/16
A 1B10-N32064	64	2.000	2-3/4	
A 1B10-N32080	80	2.500	3-1/4	

● 24 PITCH

MATERIAL: Brass

Catalog Number	No. of Teeth	P.D.	O.D.	F Face Width
A 1B10-N24048	48	2.000	2-3/4	1/4
A 1B10-N24060	60	2.500	3-1/4	
A 1B10-N24072	72	3.000	3-3/4	
A 1B10-N24144	144	6.000	6-3/4	



Precision Racks - Fine Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 20° PRESSURE ANGLE

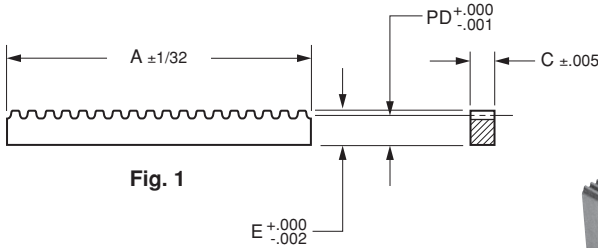


Fig. 1

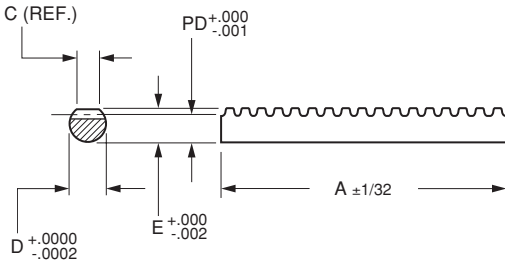
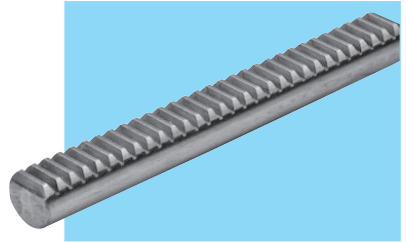
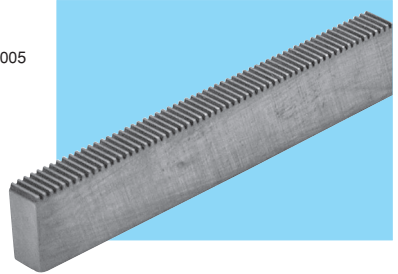


Fig. 2



RACK TOLERANCES

Tooth to tooth spacing error	.0005
Total accumulated spacing error	.002
Parallelism of pitch line to base	.001

MATERIAL: 416 Stainless Steel

Catalog Number	Figure Number (Rack Type)	Pitch	A	Pitch Distance	C	D	E
S1811Y-RB-1P	1 (Rectangular)	24	18	.4383	.230	—	.480
S1811Y-RB-2P		32		.4487		—	
S1811Y-RB-3P		48		.4592		—	
S1810Y-RB-4P		11	64	.4644	.230	—	.480
S1810Y-RB-5P			72	.3411	.167	—	.355
S1810Y-RB-6P			96	.3446	.167	—	.355
S1810Y-RB-7P			120	.3467	.167	—	.355
S1809Y-RA-1P	2 (Round)	24	18	.4383	3/16	.4997	.480
S1808Y-RA-2P		32		.3087	3/16	.3747	.340
S1807Y-RA-3P		48		.1992	5/32	.2497	.220
S1807Y-RA-4P		11	64	.2044	5/32	.2497	.220
S1805Y-RA-5P			72	.1421	1/8	.1872	.156
S1805Y-RA-6P			96	.1456	1/8	.1872	.156
S1804Y-RA-7P			120	.1067	3/32	.1247	.115

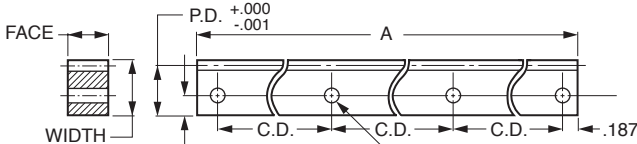
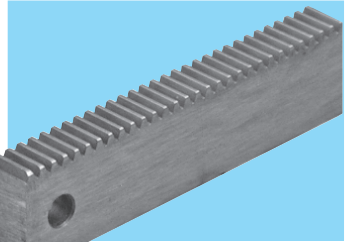
Available on special order: 14-1/2° P.A., teeth not listed, different material, passivation for Stainless Steel.



Precision Racks - Fine Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 20° PRESSURE ANGLE



.156 FOR 72, 80, 96 & 120 PITCH
.218 FOR 24, 32, 48 & 64 PITCH

(4) .147 DIA. FOR 24, 32, 48 & 64 PITCH
(4) .120 DIA. FOR 72, 80, 96 & 120 PITCH



RACK TOLERANCES

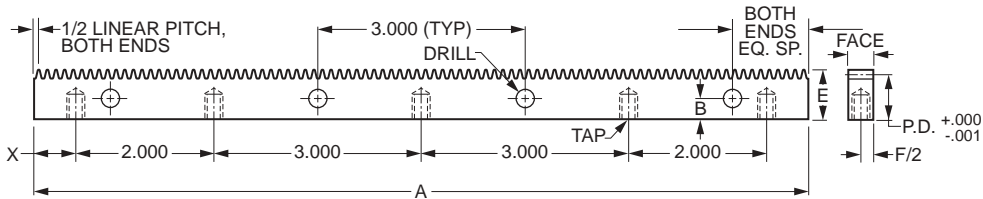
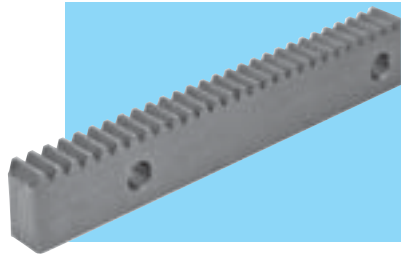
Tooth to tooth spacing error	.0005
Total accumulated spacing error	.002
Parallelism of pitch line to base	.001

MATERIAL: 416 Stainless Steel
2024-T4 Aluminum, Chromic Acid Anodized

Catalog Number	Pitch	Material	Pitch Distance	Center Distance	Face ± .002	A ± .01 in.	Width +.000 -.002
S1811Y-RC-1 S1811Y-RC-1A	24	Stainless Steel Aluminum	.4383	3.208	.230	10	.480
S1811Y-RC-2 S1811Y-RC-2A	32	Stainless Steel Aluminum	.4487				
S1811Y-RC-3 S1811Y-RC-3A	48	Stainless Steel Aluminum	.4592	2.875		9	
S1811Y-RC-4 S1811Y-RC-4A	64	Stainless Steel Aluminum	.4644	2.208	7		
S1810Y-RC-5 S1810Y-RC-5A	72	Stainless Steel Aluminum	.3411	1.541	.167	5	.355
S1810Y-RC-6 S1810Y-RC-6A	80	Stainless Steel Aluminum	.3425				
S1810Y-RC-7 S1810Y-RC-7A	96	Stainless Steel Aluminum	.3446	.875		3	
S1810Y-RC-8 S1810Y-RC-8A	120	Stainless Steel Aluminum	.3467				

Available on special order: 14-1/2° pressure angle, other materials, hole layouts and passivation for Stainless Steel.

■ 20° PRESSURE ANGLE



RACK TOLERANCES	
Tooth to tooth spacing error	.0005
Total accumulated spacing error	.002
Parallelism of pitch line to base	.001

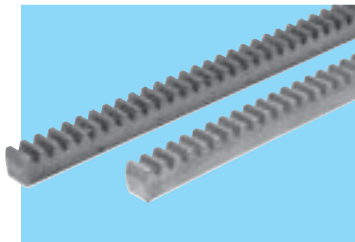
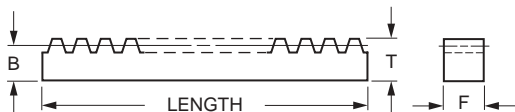
MATERIAL: 416 Stainless Steel

Catalog Number	Pitch	A +.000 -.005	E +.000 -.005	X ±.005	Face ±.002	B	Pitch Distance	Linear Pitch	Drill	Tap
S1819Y-RD-01P	16	11.185	.725	.591	.365 (±.010)	.312	.6625	.1963	.266	#10-32 x 3/8
S1819Y-RD-02P	20	11.147	.572	.572			.6750	.1570		
S1819Y-RD-03P	24	11.120	.558	.558	.230	.218	.4383	.1309	.147	#6/32 x 1/4
S1819Y-RD-04P	1/10	10.994	.480	.495			.4482	.1000		
S1819Y-RD-05P	32	11.087	.542	.542	.230	.218	.4487	.0982	.147	#6/32 x 1/4
S1819Y-RD-06P	48	11.055	.526	.526			.4592	.0654		
S1819Y-RD-07P	1/20	10.994	.480	.495	.167	.156	.4591	.0500	.120	#4-40 x 3/16
S1819Y-RD-08P	64	11.038	.518	.518			.4644	.0491		
S1819Y-RD-09P	72	11.033	.515	.515	.167	.156	.3411	.0436	.120	#4-40 x 3/16
S1819Y-RD-10P	80	11.028	.355	.513			.3425	.0393		
S1819Y-RD-11P	96	11.022	.510	.510	.3446	.0327				

Available on special order: 14-1/2° pressure angle, other materials, hole layouts and passivation.

SDPS/ISI *Inch Inch Inch Inch Inch Inch*
Racks - 48, 32 & 24 Pitch
 Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

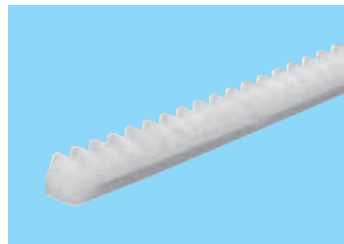
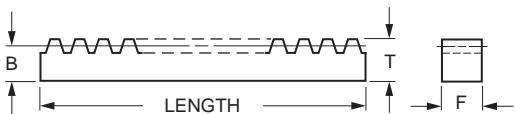
■ 14-1/2° PRESSURE ANGLE



Catalog Number		Pitch	F Face Width	T Thickness	B Dim.	Stock Length (Feet)
Steel	Brass					
A 1C12-N481	A 1B12-N481	48	1/8	1/8	.104	1
A 1C12-N482	A 1B12-N482					2
A 1C12-N322	A 1B12-N322	32	3/16	3/16	.156	2
A 1C12-N324	A 1B12-N324					4
A 1C12-N326	—					6
A 1C12-N242	A 1B12-N242	24	1/4	1/4	.208	2
A 1C12-N244	A 1B12-N244					4
A 1C12-N246	—					6

SDPS/ISI *Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch*
Molded Racks - 48, 32, 24 & 16 Pitch
 Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° PRESSURE ANGLE



MATERIAL: Nylon 101

Catalog Number	Pitch	F Face Width	T Thickness	B Dim.	Stock Length
A 1N12-N48	48	1/8	1/8	7/64	12
A 1N12-N32	32	3/16	3/16	5/32	12
A 1N12-N24	24	1/4	1/4	13/64	12
A 1N12-N24A					Δ4-7/16
*A 1N12-N16	16	5/16	5/16	1/4	12
*A 1N12-N16A					6

Δ One End Not Finished.

* 16 pitch racks are recessed 3/32 deep on both sides, allowing a 1/8 wide rib down the center of rack. Cross ribs at 2 in. intervals will permit easy drilling and fastening.



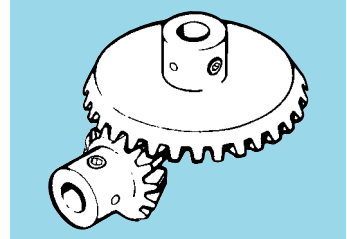
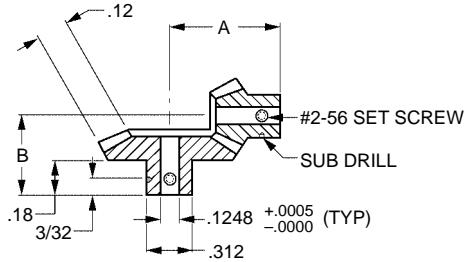
Miter & Bevel Gears - 72 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 BORE

■ PRECISION MATCHED SETS



MATERIAL: 303 Stainless Steel
2024-T4 or T351 Aluminum Alloy,
Anodized Before Cutting

Sold As Set

Catalog Number	Ratio	No. of Teeth	P.D.	A	B	Material
S1343Z-72S24A024	1:1	24 24	.333	.437	.437	St. Steel Aluminum
S1343Z-72S24S024	1:1	24 24	.333	.437	.437	St. Steel
S1343Z-72A24A024	1:1	24 24	.333	.437	.437	Aluminum
S1343Z-72S36A036	1:1	36 36	.500	.531	.531	St. Steel Aluminum
S1343Z-72S36S036	1:1	36 36	.500	.531	.531	St. Steel
S1343Z-72A36A036	1:1	36 36	.500	.531	.531	Aluminum
S1343Z-72S36A054	1:1-1/2	36 54	.500 .750	.640	.531	St. Steel Aluminum
S1343Z-72S36S054	1:1-1/2	36 54	.500 .750	.640	.531	St. Steel
S1343Z-72A36A054	1:1-1/2	36 54	.500 .750	.640	.531	Aluminum
S1343Z-72S36A072	1:2	36 72	.500 1.000	.750	.531	St. Steel Aluminum
S1343Z-72S36S072	1:2	36 72	.500 1.000	.750	.531	St. Steel
S1343Z-72A36A072	1:2	36 72	.500 1.000	.750	.531	Aluminum
S1343Z-72S36A108	1:3	36 108	.500 1.500	1.000	.531	St. Steel Aluminum
S1343Z-72S36S108	1:3	36 108	.500 1.500	1.000	.531	St. Steel
S1343Z-72A36A108	1:3	36 108	.500 1.500	1.000	.531	Aluminum
S1343Z-72S36A144	1:4	36 144	.500 2.000	1.250	.531	St. Steel Aluminum
S1343Z-72S36S144	1:4	36 144	.500 2.000	1.250	.531	St. Steel
S1343Z-72A36A144	1:4	36 144	.500 2.000	1.250	.531	Aluminum

Available on special order: Different bore size and/or material, passivation for stainless steel.



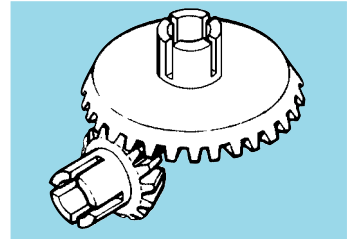
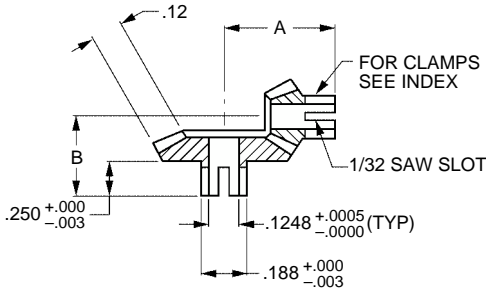
Clamp Type Miter & Bevel Gears - 72 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 BORE

■ PRECISION MATCHED SETS



MATERIAL: 303 Stainless Steel
2024-T4 or T351 Aluminum Alloy,
Anodized Before Cutting

Sold As Set

Catalog Number	Ratio	No. of Teeth	P.D.	A	B	Material
S1353Z-72S24A024	1:1	24 24	.333	.499	.499	St. Steel Aluminum
S1353Z-72S24S024	1:1	24 24	.333	.499	.499	St. Steel
S1353Z-72A24A024	1:1	24 24	.333	.499	.499	Aluminum
S1353Z-72S36A036	1:1	36 36	.500	.593	.593	St. Steel Aluminum
S1353Z-72S36S036	1:1	36 36	.500	.593	.593	St. Steel
S1353Z-72A36A036	1:1	36 36	.500	.593	.593	Aluminum
S1353Z-72S36A054	1:1-1/2	36 54	.500 .750	.702	.593	St. Steel Aluminum
S1353Z-72S36S054	1:1-1/2	36 54	.500 .750	.702	.593	St. Steel
S1353Z-72A36A054	1:1-1/2	36 54	.500 .750	.702	.593	Aluminum
S1353Z-72S36A072	1:2	36 72	.500 1.000	.812	.593	St. Steel Aluminum
S1353Z-72S36S072	1:2	36 72	.500 1.000	.812	.593	St. Steel
S1353Z-72A36A072	1:2	36 72	.500 1.000	.812	.593	Aluminum
S1353Z-72S36A108	1:3	36 108	.500 1.500	1.062	.593	St. Steel Aluminum
S1353Z-72S36S108	1:3	36 108	.500 1.500	1.062	.593	St. Steel
S1353Z-72A36A108	1:3	36 108	.500 1.500	1.062	.593	Aluminum
S1353Z-72S36A144	1:4	36 144	.500 2.000	1.312	.593	St. Steel Aluminum
S1353Z-72S36S144	1:4	36 144	.500 2.000	1.312	.593	St. Steel
S1353Z-72A36A144	1:4	36 144	.500 2.000	1.312	.593	Aluminum

Available on special order: Different bore size and/or material, passivation for stainless steel.



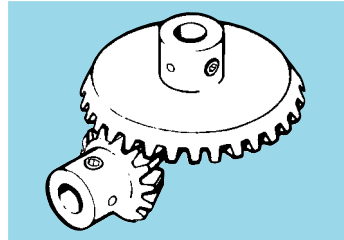
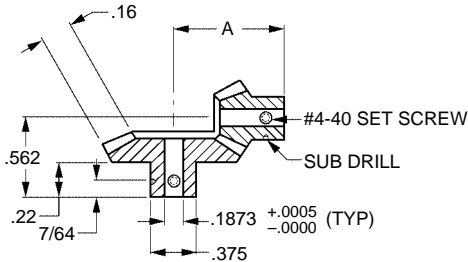
Miter & Bevel Gears - 64 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 3/16 BORE

■ PRECISION MATCHED SETS



MATERIAL: 303 Stainless Steel
2024-T4 or T351 Aluminum Alloy,
Anodized Before Cutting

Sold As Set

Catalog Number	Ratio	No. of Teeth	P.D.	A	Material
S1344Z-64S32A032	1:1	32 32	.500	.562	St. Steel Aluminum
S1344Z-64S32S032	1:1	32 32	.500	.562	St. Steel
S1344Z-64A32A032	1:1	32 32	.500	.562	Aluminum
S1344Z-64S32A048	1:1-1/2	32 48	.500 .750	.656	St. Steel Aluminum
S1344Z-64S32S048	1:1-1/2	32 48	.500 .750	.656	St. Steel
S1344Z-64A32A048	1:1-1/2	32 48	.500 .750	.656	Aluminum
S1344Z-64S32A064	1:2	32 64	.500 1.000	.750	St. Steel Aluminum
S1344Z-64S32S064	1:2	32 64	.500 1.000	.750	St. Steel
S1344Z-64A32A064	1:2	32 64	.500 1.000	.750	Aluminum
S1344Z-64S32A096	1:3	32 96	.500 1.500	1.000	St. Steel Aluminum
S1344Z-64S32S096	1:3	32 96	.500 1.500	1.000	St. Steel
S1344Z-64A32A096	1:3	32 96	.500 1.500	1.000	Aluminum
S1344Z-64S32A128	1:4	32 128	.500 2.000	1.250	St. Steel Aluminum
S1344Z-64S32S128	1:4	32 128	.500 2.000	1.250	St. Steel
S1344Z-64A32A128	1:4	32 128	.500 2.000	1.250	Aluminum

Available on special order: Different bore size and/or material, passivation for stainless steel.

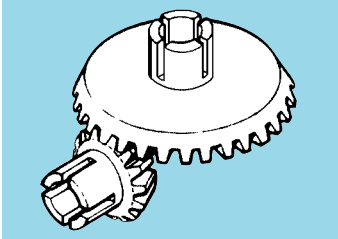
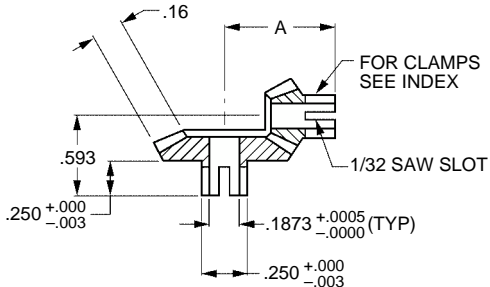
S INCH Clamp Type Miter & Bevel Gears - 64 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 3/16 BORE

■ PRECISION MATCHED SETS



MATERIAL: 303 Stainless Steel
2024-T4 or T351 Aluminum Alloy,
Anodized Before Cutting

Sold As Set

Catalog Number	Ratio	No. of Teeth	P.D.	A	Material
S1354Z-64S32A032	1:1	32 32	.500	.593	St. Steel Aluminum
S1354Z-64S32S032	1:1	32 32	.500	.593	St. Steel
S1354Z-64A32A032	1:1	32 32	.500	.593	Aluminum
S1354Z-64S32A048	1:1-1/2	32 48	.500 .750	.687	St. Steel Aluminum
S1354Z-64S32S048	1:1-1/2	32 48	.500 .750	.687	St. Steel
S1354Z-64A32A048	1:1-1/2	32 48	.500 .750	.687	Aluminum
S1354Z-64S32A064	1:2	32 64	.500 1.000	.781	St. Steel Aluminum
S1354Z-64S32S064	1:2	32 64	.500 1.000	.781	St. Steel
S1354Z-64A32A064	1:2	32 64	.500 1.000	.781	Aluminum
S1354Z-64S32A096	1:3	32 96	.500 1.500	1.031	St. Steel Aluminum
S1354Z-64S32S096	1:3	32 96	.500 1.500	1.031	St. Steel
S1354Z-64A32A096	1:3	32 96	.500 1.500	1.031	Aluminum
S1354Z-64S32A128	1:4	32 128	.500 2.000	1.281	St. Steel Aluminum
S1354Z-64S32S128	1:4	32 128	.500 2.000	1.281	St. Steel
S1354Z-64A32A128	1:4	32 128	.500 2.000	1.281	Aluminum

Available on special order: Different bore size and/or material, passivation for stainless steel.



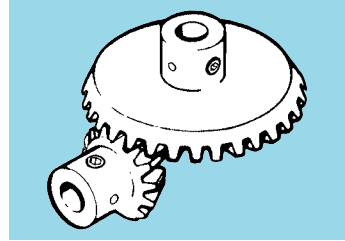
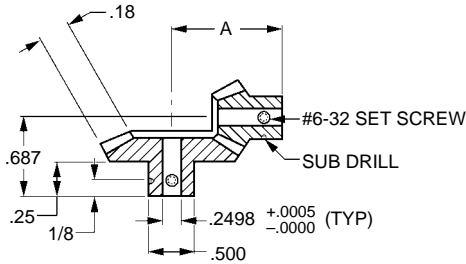
Miter & Bevel Gears - 48 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 BORE

■ PRECISION MATCHED SETS



MATERIAL: 303 Stainless Steel
2024-T4 or T351 Aluminum Alloy,
Anodized Before Cutting

Sold As Set

Catalog Number	Ratio	No. of Teeth	P.D.	A	Material
S1346Z-48S30A030	1:1	30 30	.625	.687	St. Steel Aluminum
S1346Z-48S30S030	1:1	30 30	.625	.687	St. Steel
S1346Z-48A30A030	1:1	30 30	.625	.687	Aluminum
S1346Z-48S30A045	1:1-1/2	30 45	.625 .937	.812	St. Steel Aluminum
S1346Z-48S30S045	1:1-1/2	30 45	.625 .937	.812	St. Steel
S1346Z-48A30A045	1:1-1/2	30 45	.625 .937	.812	Aluminum
S1346Z-48S30A060	1:2	30 60	.625 1.250	.937	St. Steel Aluminum
S1346Z-48S30S060	1:2	30 60	.625 1.250	.937	St. Steel
S1346Z-48A30A060	1:2	30 60	.625 1.250	.937	Aluminum
S1346Z-48S30A090	1:3	30 90	.625 1.875	1.250	St. Steel Aluminum
S1346Z-48S30S090	1:3	30 90	.625 1.875	1.250	St. Steel
S1346Z-48A30A090	1:3	30 90	.625 1.875	1.250	Aluminum
S1346Z-48S30A120	1:4	30 120	.625 2.500	1.531	St. Steel Aluminum
S1346Z-48S30S120	1:4	30 120	.625 2.500	1.531	St. Steel
S1346Z-48A30A120	1:4	30 120	.625 2.500	1.531	Aluminum

Available on special order: Different bore size and/or material, passivation for stainless steel.



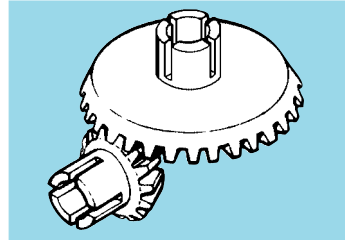
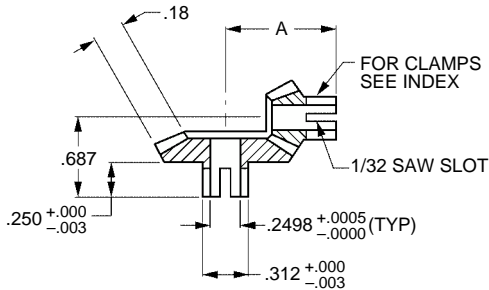
Clamp Type Miter & Bevel Gears - 48 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/4 BORE

■ PRECISION MATCHED SETS



MATERIAL: 303 Stainless Steel
2024-T4 or T351 Aluminum Alloy,
Anodized Before Cutting

Sold As Set

Catalog Number	Ratio	No. of Teeth	P.D.	A	Material
S1356Z-48S30A030	1:1	30 30	.625	.687	St. Steel Aluminum
S1356Z-48S30S030	1:1	30 30	.625	.687	St. Steel
S1356Z-48A30A030	1:1	30 30	.625	.687	Aluminum
S1356Z-48S30A045	1:1-1/2	30 45	.625 .937	.812	St. Steel Aluminum
S1356Z-48S30S045	1:1-1/2	30 45	.625 .937	.812	St. Steel
S1356Z-48A30A045	1:1-1/2	30 45	.625 .937	.812	Aluminum
S1356Z-48S30A060	1:2	30 60	.625 1.250	.937	St. Steel Aluminum
S1356Z-48S30S060	1:2	30 60	.625 1.250	.937	St. Steel
S1356Z-48A30A060	1:2	30 60	.625 1.250	.937	Aluminum
S1356Z-48S30A090	1:3	30 90	.625 1.875	1.250	St. Steel Aluminum
S1356Z-48S30S090	1:3	30 90	.625 1.875	1.250	St. Steel
S1356Z-48A30A090	1:3	30 90	.625 1.875	1.250	Aluminum
S1356Z-48S30A120	1:4	30 120	.625 2.500	1.531	St. Steel Aluminum
S1356Z-48S30S120	1:4	30 120	.625 2.500	1.531	St. Steel
S1356Z-48A30A120	1:4	30 120	.625 2.500	1.531	Aluminum

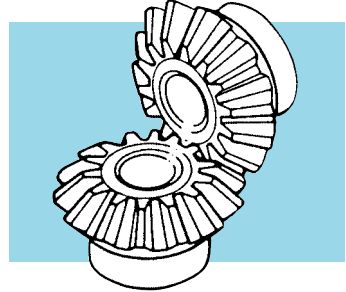
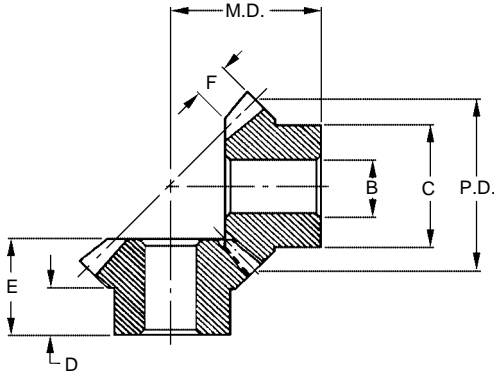
Available on special order: Different bore size and/or material, passivation for stainless steel.



INCH

Miter Gears - 48, 32, 24 & 20 Pitch

■ 20° PRESSURE ANGLE



GEARS

1

MATERIAL: Brass

Catalog Number	Pitch	No. of Teeth	P.D.	B Bore +.0002 -.0006	F Face Width	E Length	C Hub Dia.	D Hub Proj.	M.D. Dim.
A 1B 4-Y48015	48	15	.313	.1250	3/32	7/32	1/4	1/8	.312
A 1B 4-Y48018		18	.375		5/64	9/32	5/16	3/16	.406
A 1B 4-Y32016	32	16	.500	.1875	1/8	11/32	13/32	3/16	.500
A 1B 4-Y32024		24	.750		5/32	27/64	1/2	1/4	.688
A 1B 4-Y24024	24	24	1.000	.2500	7/32	9/16	5/8	9/32	.906
A 1B 4-Y24030		30	1.250	.2500	1/4	37/64	5/8	5/16	1.031
A 1B 4-Y24036		36	1.500	.3125	1/4	39/64	11/16	5/16	1.188

MATERIAL: Steel

Catalog Number	Pitch	No. of Teeth	P.D.	B Bore +.0002 -.0006	F Face Width	E Length	C Hub Dia.	D Hub Proj.	M.D. Dim.
A 1C 4-Y48018	48	18	.375	.1250	.080	9/32	5/16	3/16	.406
A 1C 4-Y32016	32	16	.500	.1875	.120	11/32	13/32	3/16	.500
A 1C 4-Y32024		24	.750		.140	27/64	1/2	1/4	.688
A 1C 4-Y24018	24	18	.750	.2500	.156	9/16	5/8	3/8	.813
A 1C 4-Y24024		24	1.000		.200			9/32	.906
A 1C 4-Y20012	20	12	.600	.2500	.120	31/64	1/2	5/16	.671
A 1C 4-Y20018		18	.900	.3125	.140	5/8	5/8	13/32	.953
A 1C 4-Y20020		20	1.000	.234	.250	13/16	3/4	1/2	1.125
A 1C 4-Y20025		25	1.250	.3750	.250	3/4	1	1/2	1.188

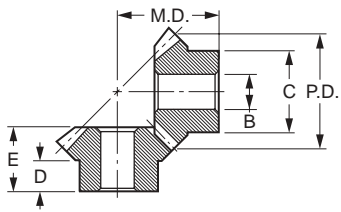
Gears other than standard stock sizes are available on special order.

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

SDPSI

Molded Miter Gears - 48, 32, 24 & 16 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827



■ 20° PRESSURE ANGLE



MATERIAL CODE:
 A - Nylon
 B - Nylon (Mineral Filled)
 C - Acetal

Sold By Set

Catalog Number	Pitch	Mat'l Code	No. of Teeth	P.D.	O.D. Ref.	B Bore +.001 -.002	E Length	C Hub Dia.	D Hub Proj.	M.D. Dim.
A 1M 4-Y48015	48	C	15	.313	.350	.125	7/32	1/4	1/8	5/16
A 1M 4-Y48018		A	18	.375	.404	.125	9/32	21/64	3/16	13/32
A 1M 4-Y48024		A	24	.500	.529	.187	3/8	3/8	1/4	17/32
A 1M 4-Y32024	32	A	24	.750	.800	.187	13/32	1/2	3/16	11/16
A 1M 4-Y32016		A	16	.500	.550	.187	11/32	13/32	3/16	1/2
A 1M 4-Y24024	24	A	24	1.000	1.045	.253	9/16	5/8	3/16	29/32
A 1M 4-Y24030		A	30	1.250	1.310	.250	37/64	5/8	5/16	1-1/32
A 1M 4-Y24036		A	36	1.500	1.560	.312	39/64	11/16	5/16	1-3/16
A 1M 4-Y16016	16	A	16	1.000	1.090	.375	3/4	3/4	7/16	1-1/16
A 1M 4-Y16032		B	32	2.000	2.088	.500	7/8	1-1/4	3/8	1-9/16
*A 1M 4-Y16032S		A	32	2.000	2.088	.500	7/8	1-1/4	3/8	1-9/16

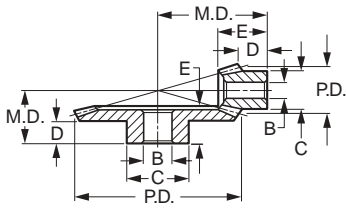
*To be discontinued when present stock is depleted.

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

SDPSI

Molded Bevel Gears - 48, 32 & 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827



■ 20° PRESSURE ANGLE



MATERIAL CODE:
 A - Nylon
 B - Nylon (Mineral Filled)
 C - Acetal

Specify Both Part Numbers Of A Pair

Catalog Number	Pitch	Mat'l. Code	No. of Teeth	Ratio	P.D.	O.D. Ref.	B Bore +.001 -.002	E Length	C Hub Dia.	D Hub Proj.	M.D. Dim.
A 1M 3-Y48018	48	A	18	1:2	.375	.412	.125	21/64	9/32	3/16	19/32
A 1M 3-Y48036		A	36	1:2	.750	.765	.187	1/4	7/16	3/16	7/16
□ A 1M 3-Y48012		A	12	1:5	.250	.291	.156	5/8	19/64	15/32	1-1/8
A 1M 3-Y48060		A	60	1:5	1.250	1.258	.250	15/64	7/16	1/8	3/8
A 1M 3-Y48012A	48	C	12	1:3	.250	.310	.094	9/32	5/16	5/32	9/16
*A 1M 3-Y48036A		C	36	1:3	.750	.760	.187	5/16	7/16	3/16	3/8
A 1M 3-Y32016	32	A	16	1:2	.500	.556	.187	3/8	3/8	3/16	23/32
A 1M 3-Y32032		A	32	1:2	1.000	1.028	.187	7/16	9/16	1/4	19/32
A 1M 3-Y32016B		C	16	1:3	.500	.583	.187	15/32	7/16	17/64	1-1/32
A 1M 3-Y32048	32	C	48	1:3	1.500	1.512	.250	7/16	5/8	5/16	21/32
A 1M 3-Y32016A		C	16	1:4	.500	.587	.188	15/32	7/16	7/32	1-1/4
ΔA 1M 3-Y32064	24	C	64	1:4	2.000	2.009	.252	31/64	3/4Δ	5/16	11/16
A 1M 3-Y24018		A	18	1:2	.750	.860	.187	17/32	9/16	1/4	1-1/16
*A 1M 3-Y24036		A	36	1:2	1.500	1.530	.250	1/2	7/8	5/16	25/32
*A 1M 3-Y24024	24	A	24	1:2	1.000	1.110	.250	5/8	11/16	9/32	1-3/8
*A 1M 3-Y24048		B	48	1:2	2.000	2.030	.312	1/2	1-1/8	5/16	15/16

*These gears only, no recess at tooth side of bore.

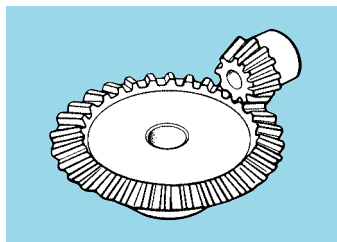
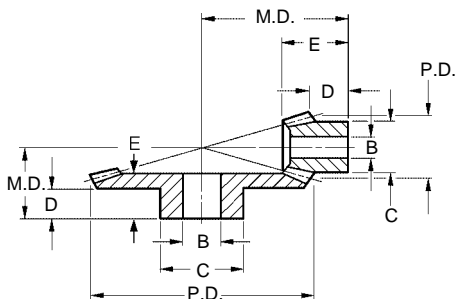
ΔNot full dia. hub, has 3 evenly spaced recesses.

□ Bore is blind hole 7/16 from hub end.



Bevel Gears - 48, 32 & 24 Pitch

■ 20° PRESSURE ANGLE



1 GEARS

MATERIAL: Brass
Steel (See *)

Catalog Number	Pitch	No. of Teeth	Ratio	P.D.	O.D.	B Bore +0.002 -0.006	E Length	C Hub Dia.	D Hub Proj.	M.D. Dim.		
A 1B 3-Y48018	48	18	1:2	.375	.410	.1250	.340	9/32	.195	.600		
A 1B 3-Y48036		36		.750	.760	.1875	.245	7/16	.190	.425		
* A 1C 3-Y48018		18	1:3	.375	.422	.1250	.328	9/32	13/64	.594		
* A 1C 3-Y48036A		36		.750	.760	.1875	.250	7/16	3/16	.437		
* A 1C 3-Y48036B		36		.750	.760	.2500	.250	7/16	.187	.437		
A 1B 3-Y48012		48	12	1:3	.250	.290	.1250	.281	7/32	.187	.562	
A 1B 3-Y48036A			36		.750	.755	.1875	.250	7/16	.187	.375	
* A 1C 3-Y48012			12	1:4	.250	.290	.1250	.281	7/32	3/16	.562	
* A 1C 3-Y48036C			36		.750	.765	.1875	.250	7/16	3/16	.375	
* A 1C 3-Y48036D			36		.750	.765	.2500	.250	7/16	3/16	.375	
A 1B 3-Y48012A			48	12	1:4	.250	.305	.1250	.340	7/32	.210	.718
A 1B 3-Y48048				48		1.000	1.005	.1875	.250	5/8	.180	.400
A 1B 3-Y32024	32			24	1:1.3	.750	.795	.1875	.440	9/16	.230	.765
A 1B 3-Y32032				32		1.000	1.035	.2500	.406	9/16	.250	.720
A 1B 3-Y32016				16	1:2	.500	.560	.1875	.375	3/8	.187	.720
A 1B 3-Y32032A						32	1.000	1.017	.1875	.375	9/16	.250
A 1B 3-Y32016A					16	1:3	.500	.575	.1875	.525	7/16	.260
A 1B 3-Y32048		48		1.500			1.515	.2500	.440	5/8	.320	.656
A 1B 3-Y32016B		16		1:4	.500	.560	.1875	.485	3/8	.230	1.250	
A 1B 3-Y32064					64	2.000	2.012	.3125	.440	1-1/32	.318	.685
A 1B 3-Y24018				24	18	1:2	.750	.823	.1875	.531	9/16	.265
A 1B 3-Y24036		36			1.500		1.535	.2500	.452	11/16	.312	.780
A 1B 3-Y24024		24	1.000		1.100		.2500	.641	11/16	.290	1.375	
A 1B 3-Y24048		48	2.000		2.035	.3125	.500	5/8	.325	.932		

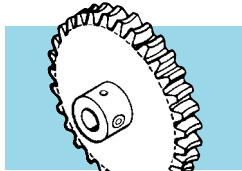
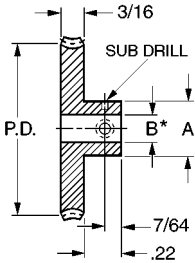
*These gears are made of steel.

GEARS OF DIFFERENT PAIRS WILL NOT RUN TOGETHER

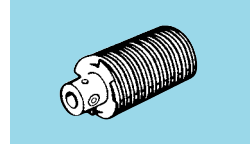
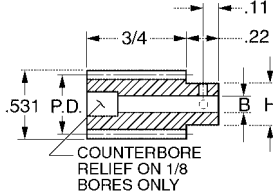


Worm Gears & Worms - 64 Pitch

- AGMA Q10**
- RIGHT-HAND**
- SINGLE, DOUBLE & QUADRUPLE THREAD**
- 14-1/2° PRESSURE ANGLE**
- 1/8, 3/16 & 1/4 BORES**



WORM GEAR



WORM

WORM GEARS
CATALOG NUMBER DESIGNATION:

S 1 C 8 Z - P 0 6 4 B

B
Bore Size
.1248 Bore 3
.1873 Bore 4
.2498 Bore 6

No. of Teeth

Thread Code

Single **S**
Double **D**
Quadruple **Q**

No. of Teeth	P.D.
40	0.6250
45	0.7031
50	0.7813
55	0.8594
60	0.9375
65	1.0156
70	1.0938
75	1.1719
80	1.2500
85	1.3281
90	1.4063
95	1.4844
100	1.5625
105	1.6406
110	1.7187
115	1.7969
120	1.8750
*180	2.8125
*360	5.6250



B +.0005 -.0000	A	Screw Size	Sub Drill
.1248	.312	#2-56	#69
.1873	.375	#4-40	#60
.2498	.500	#6-32	#50

$$\text{Ratio} = \frac{\text{No. Teeth}}{\text{No. Threads}}$$

MATERIAL:

Bronze QQ-B-637 Alloy 464

Example:

S1C86Z-P064B060S is a 1/4" Bore Worm Gear with 60 Teeth, Single Threaded.

* Available For 1/4" Bores Only

MATERIAL: 303 Stainless Steel

WORMS											
Catalog Number	B +.0005 -.0000	H Dia.	P.D.	Thread	Lead	Lead Angle	Screw Size	Sub Drill			
S1D93Z-P064SS	.1248	.312	.5000	Single	.04908	1°47'	#2-56	#69			
S1D94Z-P064SS	.1873	.375					#4-40	#60			
S1D96Z-P064SS	.2498	.437					#6-32	#50			
S1D93Z-P064SD	.1248	.312					Double	.09817	3°35'	#2-56	#69
S1D94Z-P064SD	.1873	.375								#4-40	#60
S1D96Z-P064SD	.2498	.437								#6-32	#50
S1D93Z-P064SQ	.1248	.312		Quadruple	.19635	7°11'				#2-56	#69
S1D94Z-P064SQ	.1873	.375								#4-40	#60
S1D96Z-P064SQ	.2498	.437								#6-32	#50

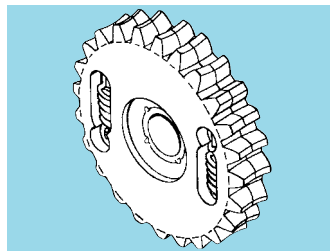
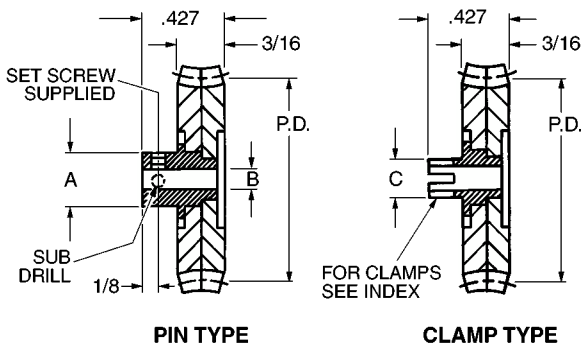
Available on special order: Worm Gears - Teeth not listed, different bore size, clamp type hub.

Worms - Different bore size and/or material, passivation for stainless steel.

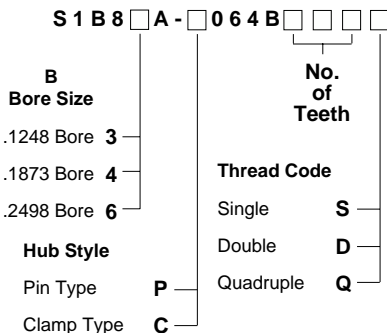


Anti-Backlash Worm Gears - 64 Pitch

- AGMA Q10
- RIGHT-HAND
- SINGLE, DOUBLE & QUADRUPLE THREAD
- 14-1/2° PRESSURE ANGLE
- 1/8, 3/16 & 1/4 BORES



CATALOG NUMBER DESIGNATION:



A	B +.0005 -.0000	C +.000 -.003	Screw Size	Sub Drill
.312	.1248	.188	#2-56	#69
.375	.1873	.250	#4-40	#60
.500	.2498	.312	#6-32	#50

Thread	No. of Teeth	P.D.	Matching Worm
Single	96	1.5000	NOTE 1
	100	1.5625	
	110	1.7187	
	120	1.8750	
	130	2.0312	
Double	96	1.5000	NOTE 2
	100	1.5625	
	110	1.7187	
	120	1.8750	
	130	2.0312	
Quadruple	96	1.5000	NOTE 3
	100	1.5625	
	110	1.7187	
	120	1.8750	
	130	2.0312	
	140	2.1875	

MATERIAL:

- Gears:** Bronze QQ-B-637 Alloy 464
- Hubs:** 303 Stainless Steel
- Springs:** 302 Stainless Steel Spring Tempered

Example:
S1B86A-C064B120Q is a 1/4" Bore Clamp Type
Anti-Backlash Worm Gear with 120 Teeth,
Quadruple Threaded.

Available on request: Teeth not listed, different bore size.

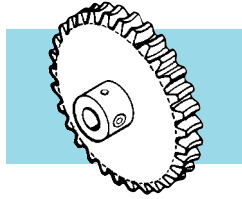
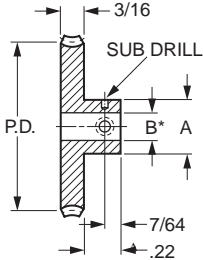
- NOTE 1:** Meshes with S1D93Z-P064SS, S1D94Z-P064SS and S1D96Z-P064SS worms only.
- NOTE 2:** Meshes with S1D93Z-P064SD, S1D94Z-P064SD and S1D96Z-P064SD worms only.
- NOTE 3:** Meshes with S1D93Z-P064SQ, S1D94Z-P064SQ and S1D96Z-P064SQ worms only.



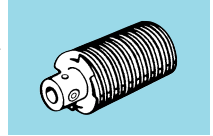
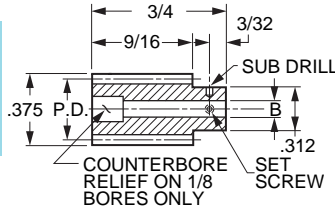
Worm Gears & Worms - 48 Pitch

- AGMA Q10
- SINGLE, DOUBLE & QUADRUPLE THREAD
- RIGHT-HAND
- 1/8, 3/16 & 1/4 BORES

1 GEARS



WORM GEAR



WORM



WORM GEARS
CATALOG NUMBER DESIGNATION:

S 1 C 8 Z - P 0 4 8 B

B
Bore Size

- .1248 Bore **3**
- .1873 Bore **4**
- .2498 Bore **6**

No. of Teeth

Thread Code

- Single (14-1/2° P.A.) **S**
- Double (20° P.A.) **D**
- Quadruple (25° P.A.) **Q**

No. of Teeth	P.D.
30	0.6250
35	0.7292
40	0.8333
45	0.9375
50	1.0417
55	1.1459
60	1.2500
65	1.3541
70	1.4583
75	1.5625
80	1.6667
85	1.7707
90	1.8750
95	1.9790
100	2.0833
105	2.1875
110	2.2917
115	2.3959
120	2.5000
* 180	3.7500
Δ * 360	7.5000

B +.0005 -.0000	A	Screw Size
.1248	.312	#2-56
.1873	.375	#4-40
.2498	.500	#6-32

$$\text{Ratio} = \frac{\text{No. Teeth}}{\text{No. Threads}}$$

MATERIAL:

Bronze QQ-B-637 Alloy 464

Example:

S1C83Z-P048B040D is a 1/8" Bore Worm Gear with 40 Teeth, Double Threaded.

* Available For 1/4" Bores Only

Δ 2 Pc. Construction, .28 Hub Length.

MATERIAL: 303 Stainless Steel

WORMS							
Catalog Number	B +.0005 -.0000	P.D.	Thread	P.A.	Lead	Lead Angle	Screw Size
S1D93Z-P048SS S1D94Z-P048SS	.1248 .1873	.3333	Single	14-1/2°	.0654	3°35'	#2-56 #4-40
S1D93Z-P048SD S1D94Z-P048SD	.1248 .1873						Double
S1D93Z-P048SQ S1D94Z-P048SQ	.1248 .1873		Quadruple	25°	.2618	14°2'	

Available on special order: Worm Gears - Teeth not listed, different bore size, clamp type hub.

Worms - Different bore size and/or material, passivation for stainless steel.



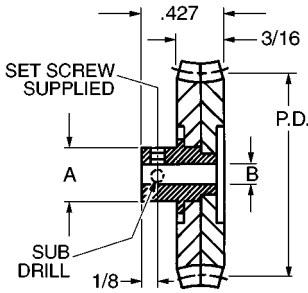
Anti-Backlash Worm Gears - 48 Pitch

■ AGMA Q10

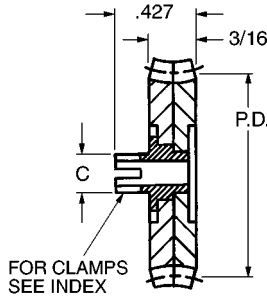
■ SINGLE, DOUBLE & QUADRUPLE THREAD

■ RIGHT-HAND

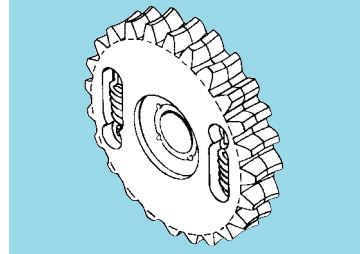
■ 1/8, 3/16 & 1/4 BORES



PIN TYPE



CLAMP TYPE



CATALOG NUMBER DESIGNATION:

S 1 B 8 □ A - □ 0 4 8 B □ □ □ □

B
Bore Size

- .1248 Bore **3**
- .1873 Bore **4**
- .2498 Bore **6**

Hub Style

- Pin Type **P**
- Clamp Type **C**

No. of Teeth

Thread Code

- Single **S**
- Double **D**
- Quadruple **Q**

MATERIAL:

- Gears:** Bronze QQ-B-637 Alloy 464
- Hubs:** 303 Stainless Steel
- Springs:** 302 Stainless Steel Spring Tempered

Example:
S1B84A-P048B080D is a 3/16" Bore Pin Type Anti-Backlash Worm Gear with 80 Teeth, Double Threaded.

A	B +.0005 -.0000	C +.000 -.003	Screw Size	Sub Drill
.312	.1248	.188	#2-56	#69
.375	.1873	.250	#4-40	#60
.500	.2498	.312	#6-32	#50

Thread	No. of Teeth	P.D.	Matching Worm
Single (14-1/2° P.A.)	70	1.4583	NOTE 1
	72	1.5000	
	80	1.6667	
	90	1.8750	
	100	2.0000	
Double (20° P.A.)	70	1.4583	NOTE 2
	72	1.5000	
	80	1.6667	
	90	1.8750	
	100	2.0000	
Quadruple (25° P.A.)	70	1.4583	NOTE 3
	72	1.5000	
	80	1.6667	
	90	1.8750	
	100	2.0000	

Available on request: Teeth not listed, different bore size.

NOTE 1: Meshes with S1D93Z-P048SS and S1D94Z-P048SS worms only.

NOTE 2: Meshes with S1D93Z-P048SD and S1D94Z-P048SD worms only.

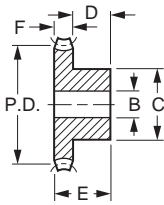
NOTE 3: Meshes with S1D93Z-P048SQ and S1D94Z-P048SQ worms only.

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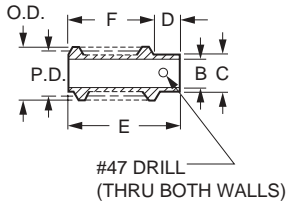
SDPSI Worm Gears and Worms - 48 Pitch

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- 14-1/2° PRESSURE ANGLE ■ RIGHT-HAND ■ SINGLE THREAD



WORM GEAR



WORM



MATERIAL: Bronze

WORM GEARS							
Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-N48020	20	.417	3/16	1/8	5/16	11/32	3/16
A 1B 6-N48024	24	.500				3/8	
A 1B 6-N48030	30	.625		1/8	3/8	7/16	1/4
A 1B 6-N48036	36	.750				1/2	
A 1B 6-N48040	40	.833				1/2	
A 1B 6-N48048	48	1.000		1/8	3/8	1/2	1/4
A 1B 6-N48060	60	1.250				5/8	
A 1B 6-N48072	72	1.500				1/2	
A 1B 6-N48080	80	1.666				5/8	
A 1B 6-N48096	96	2.000		5/16	1/8	7/16	9/16
A 1B 6-N48100	100	2.083	1/4	1/8	7/16	11/16	5/16
A 1B 6-N48120	120	2.500	5/16			9/16	

MATERIAL: Steel

LEAD: .0654
LEAD ANGLE: 3° 35'

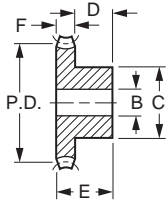
WORMS								
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-N48	.333	.375	3/16	9/16	3/4	.260	3/16	Soft
A 1Q 5-N48								Hardened & Polished
A 1Q55-N48								Hardened & Ground



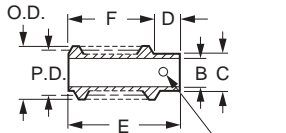
Worm Gears and Worms - 48 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 20° PRESSURE ANGLE
- RIGHT-HAND
- DOUBLE THREAD



WORM GEAR



WORM
#47 DRILL
(THRU BOTH WALLS)



MATERIAL: Bronze

WORM GEARS							
Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-Y48020	20	.417	3/16	1/8	5/16	11/32	3/16
A 1B 6-Y48024	24	.500		1/8	3/8	3/8	1/4
A 1B 6-Y48030	30	.625		1/8	3/8	1/2	1/4
A 1B 6-Y48036	36	.750					
A 1B 6-Y48040	40	.833					
A 1B 6-Y48050	50	1.041		1/8	3/8	5/8 1/2	1/4
A 1B 6-Y48060	60	1.250					
A 1B 6-Y48072	72	1.500					
A 1B 6-Y48096	96	2.000	5/16	1/8	7/16	9/16	5/16
A 1B 6-Y48100	100	2.083	1/4				
A 1B 6-Y48120	120	2.500	5/16				

MATERIAL: Steel

LEAD: .1309

LEAD ANGLE: 7° 7'

WORMS								
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-Y48	.333	.375	3/16	9/16	3/4	.260	3/16	Soft
A 1Q 5-Y48								Hardened & Polished
A 1Q55-Y48								Hardened & Ground

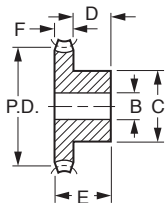
For engineering assistance for all SDP components, call on our applications engineers.



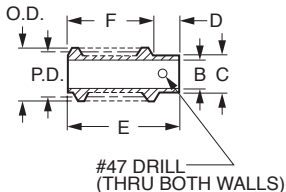
Worm Gears and Worms - 48 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

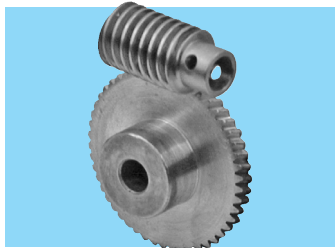
- 25° PRESSURE ANGLE
- RIGHT HAND
- QUADRUPLE THREAD



WORM GEAR



WORM



MATERIAL: Bronze

WORM GEARS

Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-Z48020	20	.417	3/16	1/8	5/16	11/32	3/16
A 1B 6-Z48024	24	.500		1/8	3/8	3/8	1/4
A 1B 6-Z48030	30	.625		1/8	3/8	1/2	1/4
A 1B 6-Z48036	36	.750					
A 1B 6-Z48040	40	.833					
A 1B 6-Z48048	48	1.000					
A 1B 6-Z48050	50	1.041		1/8	3/8	5/8	1/4
A 1B 6-Z48060	60	1.250					
A 1B 6-Z48072	72	1.500					
A 1B 6-Z48080	80	1.666	1/4	1/8	7/16	5/8	5/16
A 1B 6-Z48096	96	2.000	5/16	1/8	7/16	9/16	5/16
A 1B 6-Z48120	120	2.500					

MATERIAL: Steel

LEAD: .2618

LEAD ANGLE: 14° 2'

WORMS

Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-Z48	.333	.375	3/16	9/16	3/4	.260	3/16	Soft
A 1Q 5-Z48								Hardened & Polished
A 1Q55-Z48								Hardened & Ground

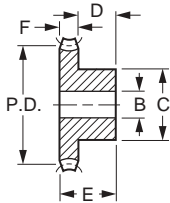
Discounts available for large quantity orders.

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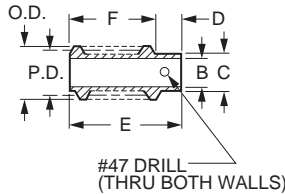
SDPSI Worm Gears & Worms - 32 Pitch

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- 14-1/2° PRESSURE ANGLE ■ RIGHT-HAND ■ SINGLE THREAD



WORM GEAR



WORM



MATERIAL: Bronze

WORM GEARS								
Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	
A 1B 6-N32020	20	.625	3/16	3/16	7/16	1/2	1/4	
A 1B 6-N32020A	20	.625		7/32	15/32			
A 1B 6-N32024	24	.750		3/16	7/16			
A 1B 6-N32030	30	.938		3/16	7/16			5/8
A 1B 6-N32030A	30	.938		7/32	15/32			5/8
A 1B 6-N32036	36	1.125		3/16	7/16			1/2
A 1B 6-N32040	40	1.250	1/4	3/16	1/2	5/8	5/16	
A 1B 6-N32040A	40	1.250		7/32	15/32		1/4	
A 1B 6-N32050	50	1.562		3/16	1/2		5/16	
A 1B 6-N32050A	50	1.562		7/32	17/32		5/8	
A 1B 6-N32060	60	1.875		3/16	1/2		11/16	5/16
A 1B 6-N32060A	60	1.875		7/32	17/32		11/16	
A 1B 6-N32072	72	2.250	5/16	3/16	1/2	11/16	5/16	
A 1B 6-N32080	80	2.500		3/16	1/2			
A 1B 6-N32080A	80	2.500		7/32	17/32			
A 1B 6-N32096	96	3.000		3/16	1/2			
A 1B 6-N32096A	96	3.000		7/32	17/32			
A 1B 6-N32100	100	3.125		3/16	1/2			
A 1B 6-N32100A	100	3.125	7/32	17/32	3/4	5/16		
A 1B 6-N32120	120	3.750					3/16	1/2

MATERIAL: Steel

LEAD: .0982
LEAD ANGLE: 4° 5'

WORMS								
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-N32	.438	.500	3/16	11/16	7/8	.320	3/16	Soft
A 1C55-N32				1/2	11/16	.350		
*A 1C55-5N32				1/2	1/2	Hubless		
A 1C55-55N32			1/4	1/2	11/16	.350	3/16	
A 1Q 5-N32	.438	.500	7/32	11/16	7/8	.320	3/16	Hardened & Polished
A 1Q55-N32						.350		Hardened & Ground
A 1Q55-5N32						.320		Hardened & Polished
A 1Q55-55N32						.350		Hardened & Polished

* This worm has no cross-drilled holes.

For engineering assistance for all SDP components, call on our applications engineers.

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

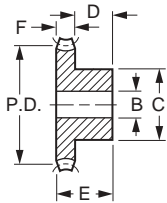
SDPSI Worm Gears and Worms - 32 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

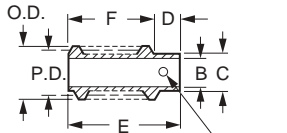
■ 20° PRESSURE ANGLE

■ RIGHT-HAND

■ DOUBLE THREAD



WORM GEAR



WORM
#47 DRILL
(THRU BOTH WALLS)



MATERIAL: Bronze

WORM GEARS

Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-Y32020A	20	.625	3/16	7/32	15/32	1/2	1/4
A 1B 6-Y32030	30	.938	3/16	3/16	7/16	5/8	1/4
A 1B 6-Y32030A	30	.938	3/16	7/32	15/32	5/8	1/4
A 1B 6-Y32040A	40	1.250	1/4	7/32	15/32	5/8	5/16
A 1B 6-Y32048	48	1.500	3/16		7/16	1/2	1/4
A 1B 6-Y32050	50	1.562	1/4	3/16	1/2	5/8	5/16
A 1B 6-Y32060	60	1.875	1/4		1/2	11/16	5/16
A 1B 6-Y32072	72	2.250				5/8	
A 1B 6-Y32080	80	2.500	5/16	3/16	1/2	11/16	5/16
A 1B 6-Y32100	100	3.125				11/16	
*A 1B 6-Y32120	120	3.750				3/4	

*To be discontinued when present stock is depleted.

LEAD: .1963

LEAD ANGLE: 8° 8'

MATERIAL: Steel

WORMS

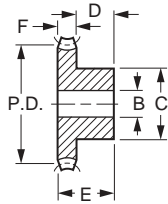
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-Y32			3/16			.320		Soft
A 1Q 5-Y32	.438	.500	7/32	11/16	7/8	.320	3/16	Hardened & Polished
A 1Q55-5Y32			7/32			.350		Hardened & Ground

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

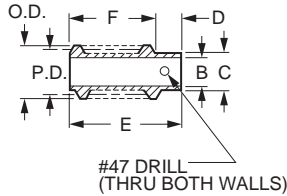
SDPSI Worm Gears and Worms - 32 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 25° PRESSURE ANGLE
■ RIGHT-HAND
■ QUADRUPLE THREAD



WORM GEAR



WORM



MATERIAL: Bronze

WORM GEARS							
Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-Z32020	20	.625				1/2	
A 1B 6-Z32024	24	.750				1/2	1/4
A 1B 6-Z32030	30	.938	3/16	3/16	7/16	5/8	
A 1B 6-Z32036	36	1.125				1/2	
A 1B 6-Z32040	40	1.250	1/4			5/8	
A 1B 6-Z32048	48	1.500	3/16	3/16	1/2	1/2	5/16
A 1B 6-Z32050	50	1.562	1/4			5/8	
A 1B 6-Z32060	60	1.875	1/4	3/16	1/2	11/16	5/16
A 1B 6-Z32072	72	2.250	5/16			5/8	
A 1B 6-Z32080	80	2.500					
A 1B 6-Z32096	96	3.000	5/16	3/16	1/2	11/16	5/16
* A 1B 6-Z32100	100	3.125					

* To be discontinued when current stock is depleted.

LEAD: .3927

MATERIAL: Steel

LEAD ANGLE: 15° 57'

WORMS								
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-Z32	.438	.500	3/16	11/16	7/8	.320	3/16	Soft
A 1Q 5-Z32			7/32					Hardened & Polished
A 1Q55-Z32			7/32					Hardened & Ground

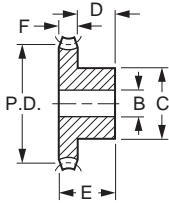
Discounts available for large quantity orders.



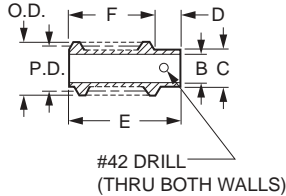
Worm Gears & Worms - 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 14-1/2° PRESSURE ANGLE
- RIGHT-HAND
- SINGLE THREAD



WORM GEAR



WORM



MATERIAL: Bronze

WORM GEARS							
Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-N24018	18	.750	3/16	1/4	9/16	1/2	5/16
A 1B 6-N24020	20	.833					
A 1B 6-N24024	24	1.000					
A 1B 6-N24030	30	1.250					
A 1B 6-N24036	36	1.500					
A 1B 6-N24040	40	1.667	1/4	1/4	9/16	1/2	5/16
A 1B 6-N24048	48	2.000	5/16	1/4	9/16	3/4	5/16
A 1B 6-N24050	50	2.083					
A 1B 6-N24060	60	2.500					
A 1B 6-N24072	72	3.000					
A 1B 6-N24080	80	3.333					
A 1B 6-N24096	96	4.000	3/8	1/4	5/8	7/8	3/8
A 1B 6-N24096A	96	4.000					
A 1B 6-N24100	100	4.167					

MATERIAL: Steel

LEAD: .1309
LEAD ANGLE: 4° 46'

WORMS								
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-N24	.500	.583	3/16	13/16	1-1/16	3/8	1/4	Soft
A 1C55-N24			1/4	5/8	7/8			Hardened & Polished
A 1Q55-N24			1/4	13/16	1-1/16			
A 1Q55-5N24								

If your design calls for a modified part, send us your print.
Most probably your requirements can be met with standard tooling
...with merely a nominal charge.



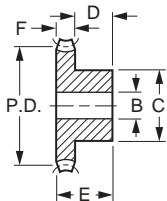
Worm Gears and Worms - 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

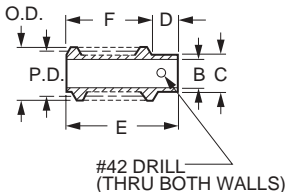
■ 20° PRESSURE ANGLE

■ RIGHT-HAND

■ DOUBLE THREAD



WORM GEAR



WORM



MATERIAL: Bronze

WORM GEARS

Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-Y24018	18	.750	3/16	1/4	1/2	1/2	1/4
A 1B 6-Y24020	20	.833					
A 1B 6-Y24024	24	1.000	3/16	1/4	9/16	5/8	5/16
A 1B 6-Y24030	30	1.250					
A 1B 6-Y24036	36	1.500					
A 1B 6-Y24040	40	1.667	1/4	1/4	9/16	5/8	5/16
A 1B 6-Y24048	48	2.000					
A 1B 6-Y24050	50	2.083	5/16	1/4	9/16	3/4	5/16
A 1B 6-Y24060	60	2.500					
A 1B 6-Y24072	72	3.000					
A 1B 6-Y24080	80	3.333	5/16	1/4	5/8	7/8	3/8
A 1B 6-Y24096	96	4.000	3/8	1/4	5/8	7/8	3/8

MATERIAL: Steel

LEAD: .2618

LEAD ANGLE: 9° 28'

WORMS

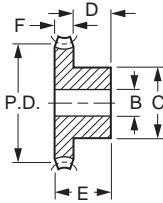
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-Y24			3/16					Soft
A 1Q 5-Y24	.500	.583	1/4	13/16	1-1/16	3/8	1/4	Hardened & Polished
A 1Q55-Y24			1/4					Hardened & Ground



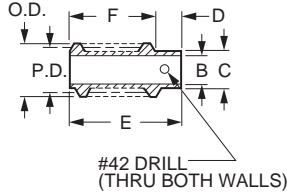
Worm Gears and Worms - 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

- 25° PRESSURE ANGLE
- RIGHT-HAND
- QUADRUPLE THREAD



WORM GEAR



WORM



MATERIAL: Bronze

WORM GEARS

Catalog Number	No. of Teeth	P.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1B 6-Z24018	18	.750	3/16	1/4	1/2	1/2	1/4
A 1B 6-Z24020	20	.833					
A 1B 6-Z24024	24	1.000	3/16	1/4	9/16	5/8	5/16
A 1B 6-Z24030	30	1.250					
A 1B 6-Z24040	40	1.667	1/4	1/4	9/16	5/8	5/16
A 1B 6-Z24048	48	2.000					
A 1B 6-Z24050	50	2.083					
A 1B 6-Z24060	60	2.500	5/16	1/4	9/16	3/4	5/16
A 1B 6-Z24072	72	3.000					
A 1B 6-Z24080	80	3.333	5/16	1/4	5/8	7/8	3/8
A 1B 6-Z24096	96	4.000					
A 1B 6-Z24100	100	4.167	3/8	1/4	5/8	7/8	3/8

MATERIAL: Steel

LEAD: .5236

LEAD ANGLE: 18° 26'

WORMS

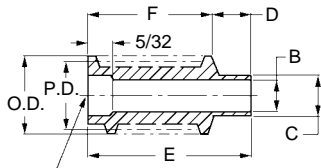
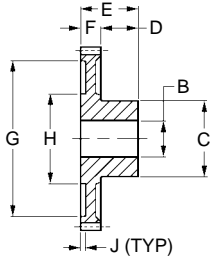
Catalog Number	P.D.	O.D.	B Bore	F Face Width	E Length	C Hub Dia.	D Hub Proj.	Finish
A 1C 5-Z24			3/16					Soft
A 1Q 5-Z24	.500	.583	1/4	13/16	1-1/16	3/8	1/4	Hardened & Polished
A 1Q55-Z24			1/4					Hardened & Ground



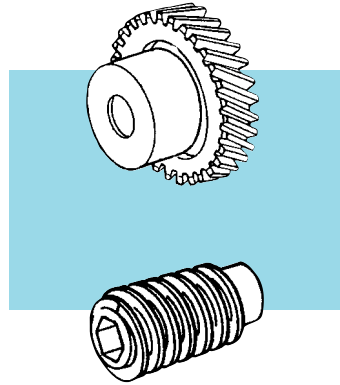
INCH Molded Worm Gears & Worms - 48, 32 & 24 Pitch

- 14-1/2° PRESSURE ANGLE
- RIGHT-HAND
- SINGLE THREAD

1 GEARS



.19 ACROSS FLATS, HEX



MATERIAL: Gear – 48 & 32 Pitch - Acetal
24 Pitch - Mineral Filled Nylon, Black

WORM GEARS**												
Catalog Number	Pitch	No. of Teeth	P.D.	O.D.	B Bore +.001 -.002	F Face Width	E Length	C Hub Dia.	D Hub Proj.	G	H	J
A 1M 6-N48020	48	20	0.417	0.458	.187	3/16	3/8	11/32	3/16	—	—	—
A 1M 6-N48030		30	0.625	0.667			7/16	7/16	1/4			
A 1M 6-N48040		40	0.833	0.875		3/16	7/16	1/2	1/4			
A 1M 6-N48050		50	1.042	1.084			1/2	5/8	1/4			
A 1M 6-N32020	32	20	0.625	0.687	.187	3/16	7/16	1/2	1/4	—	—	—
A 1M 6-N32030		30	0.938	1.000				5/8				
A 1M 6-N32040		40	1.250	1.312				5/16				
A 1M 6-N32050	50	1.562	1.625	1-19/64	3/64							
A 1M 6-N24020	24	20	0.833	0.917	.187	1/4	9/16	5/8	5/16	15/16	15/32	1/16
A 1M 6-N24030		30	1.250	1.333								
A 1M 6-N24040		40	1.667	1.750		3/4	5/16	1-23/64	1-25/32			
A 1M 6-N24050		50	2.083	2.167								

MATERIAL: Nylon

WORMS									
Catalog Number	Pitch	P.D.	O.D.	B Bore +.001 -.002	F Face Width	E Length	C Hub Dia.	D Hub Proj.	
A 1M 5-N48	48	0.333	0.375	.187	33/64	47/64	.26	3/16	
A 1M 5-N32	32	0.438	0.500		41/64	53/64	.32	3/16	
A 1M 5-N24	24	0.500	0.583		41/64	57/64	.37	1/4	

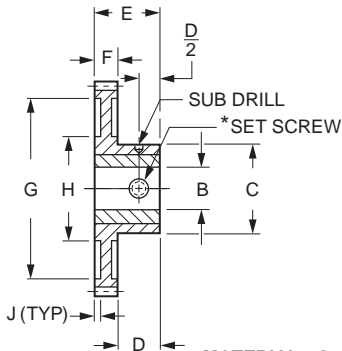
**These are in effect HELICAL gears with a helix angle compatible with the worms. When in mesh, they operate as a worm-pair at right angles. These gears will also mesh with standard-stock steel or brass worms.

Inch Inch Inch Inch Inch Inch Inch Inch Inch Inch

SDPSI Molded Worm Gears with Inserts - 48, 32 & 24 Pitch

Stock Drive Products/Sterling Instrument ■ Phone: 516-328-3300 ■ Fax: 516-326-8827

■ 14-1/2° PRESSURE ANGLE ■ RIGHT-HAND ■ SINGLE THREAD



MATERIAL: Gear - 48 & 32 Pitch - Acetal
 24 Pitch - Mineral Filled Nylon
 Insert - Brass

WORM GEARS**												
Catalog Number	Pitch	No. of Teeth	P.D.	O.D.	B Bore +.001 -.000	F Face Width	E Length	C Hub Dia.	D Hub Proj.	G	H	J
A 1T 6-N482004	48	20	.417	.459	1/8	3/16	3/8	11/32	3/16	—	—	—
A 1T 6-N483004		30	.625	.667	1/8	3/16	7/16	7/16	1/4	—	—	—
A 1T 6-N483006		40	.833	.875	3/16	3/16	7/16	1/2	1/4	—	—	—
A 1T 6-N484006		50	1.042	1.084	1/4	3/16	7/16	1/2	1/4	—	—	—
A 1T 6-N484008					1/4	3/16	7/16	1/2	1/4	—	—	—
A 1T 6-N485006		32	20	.625	.687	3/16	3/16	7/16	1/2	1/4	—	—
A 1T 6-N322008	1/4					3/16	7/16	1/2	1/4	—	—	—
A 1T 6-N323006	30		.938	1.000	3/16	3/16	7/16	5/8	1/4	—	—	—
A 1T 6-N323008					1/4	3/16	7/16	5/8	1/4	—	—	—
A 1T 6-N324008	40		1.250	1.312	1/4	3/16	1/2	5/8	5/16	31/32	5/8	1/32
A 1T 6-N324010					5/16	3/16	1/2	5/8	5/16	1-19/64	5/8	1/32
A 1T 6-N325008	50	1.562	1.625	1/4	3/16	1/2	5/8	5/16	1-19/64	5/8	1/32	
A 1T 6-N325010				5/16	3/16	1/2	5/8	5/16	1-19/64	5/8	1/32	
A 1T 6-N242006	24	20	.833	.917	3/16	1/4	9/16	5/8	5/16	—	—	—
A 1T 6-N242008					1/4	1/4	9/16	5/8	5/16	—	—	—
A 1T 6-N243006		30	1.250	1.333	3/16	1/4	9/16	5/8	5/16	15/16	3/8	1/16
A 1T 6-N243008					1/4	1/4	9/16	5/8	5/16	15/16	3/8	1/16
A 1T 6-N244008		40	1.667	1.750	1/4	1/4	9/16	3/4	5/16	1-23/64	3/4	1/16
A 1T 6-N244008S					1/4	1/4	9/16	3/4	5/16	1-23/64	3/4	1/16
A 1T 6-N244010	50	2.083	2.167	1/4	1/4	9/16	3/4	5/16	1-25/32	3/4	1/16	
A 1T 6-N245008				5/16	1/4	9/16	3/4	5/16	1-25/32	3/4	1/16	
A 1T 6-N245010					5/16	1/4	9/16	3/4	5/16	1-25/32	3/4	1/16

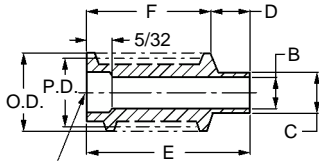
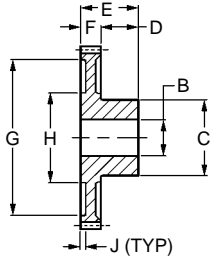
*Gears with 1/8 bore have #2-56 Set Screw and Sub Drill.
 3/16 bore have #4-40 Set Screw and Sub Drill.
 5/16 bore have #8-32 Set Screw and Sub Drill.

Gears with 1/4 bore have #6-32 Set Screw and Sub Drill except for **A 1T 6-N244008S** which has a #8-32 Set Screw and Sub Drill.

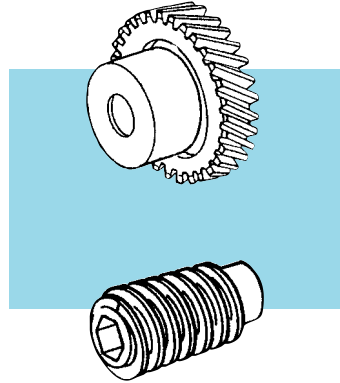
**These are in effect HELICAL gears with a helix angle compatible with the worms. When in mesh, they operate as a worm-pair at right angles. These gears will also mesh with standard-stock steel or brass worms.

sdp INCH Molded Worm Gears & Worms - 48, 32 & 24 Pitch

- 20° PRESSURE ANGLE
- RIGHT-HAND
- DOUBLE THREAD



.19 ACROSS
FLATS, HEX



MATERIAL: Gear – 48 & 32 Pitch - Acetal
24 Pitch - Mineral Filled Nylon

WORM GEARS**

Catalog Number	Pitch	No. of Teeth	P.D.	O.D.	B Bore +.001 -.002	F Face Width	E Length	C Hub Dia.	D Hub Proj.	G	H	J								
A 1M 6-Y48020	48	20	0.417	0.458	.187	3/16	3/8	11/32	3/16	—	—	—								
A 1M 6-Y48030		30	0.625	0.667									7/16	7/16	1/4					
A 1M 6-Y48040		40	0.833	0.875		3/16	7/16	1/2	1/4											
A 1M 6-Y48050		50	1.042	1.084																
A 1M 6-Y32020	32	20	0.625	0.687	.187	3/16	7/16	1/2	5/8	—	—	—								
A 1M 6-Y32030		30	0.938	1.000																
A 1M 6-Y32040		40	1.250	1.312									.250	3/16	1/2	5/8	5/16	31/32	5/8	1/32
A 1M 6-Y32050		50	1.562	1.625																
A 1M 6-Y24020	24	20	0.833	0.917	.187	1/4	9/16	5/8	5/16	15/16	15/32	1/16								
A 1M 6-Y24030		30	1.250	1.333																
A 1M 6-Y24040		40	1.667	1.750									.312	1/4	9/16	3/4	5/16	1-23/64	3/4	1/16
A 1M 6-Y24050		50	2.083	2.167																

MATERIAL: Nylon

WORMS

Catalog Number	Pitch	P.D.	O.D.	B Bore +.001 -.002	F Face Width	E Length	C Hub Dia.	D Hub Proj.
A 1M 5-Y48	48	0.333	0.375	.187	9/16	3/4	.26	3/16
A 1M 5-Y32	32	0.438	0.500		11/16	7/8	.32	3/16
A 1M 5-Y24	24	0.500	0.583		11/16	15/16	.37	1/4

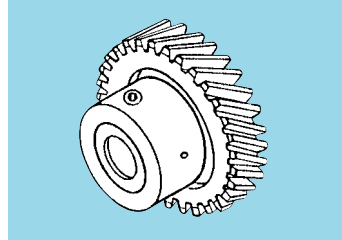
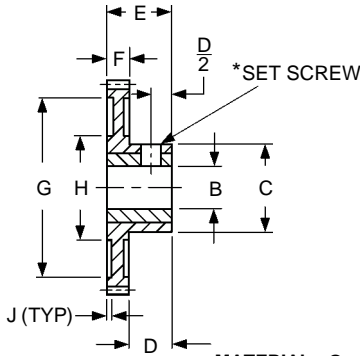
**These are in effect HELICAL gears with a helix angle compatible with the worms. When in mesh, they operate as a worm-pair at right angles. These gears will also mesh with standard-stock steel or brass worms.

sdp INCH Molded Worm Gears with Inserts - 48, 32 & 24 Pitch

■ 20° PRESSURE ANGLE

■ RIGHT-HAND

■ DOUBLE THREAD



MATERIAL: Gear - 48 & 32 Pitch - Acetal
 24 Pitch - Mineral Filled Nylon
 Insert - Brass

WORM GEARS**

Catalog Number	Pitch	No. of Teeth	P.D.	O.D.	B Bore +.001 - .000	F Face Width	E Length	C Hub Dia.	D Hub Proj.	G	H	J
A 1T 6-Y482004	48	20	0.417	0.459	1/8	3/16	3/8	11/32	3/16	—	—	—
A 1T 6-Y483004		30	0.625	0.667	1/8	3/16	7/16	7/16	1/4	—	—	—
A 1T 6-Y483006		30	0.625	0.667	3/16	3/16	7/16	7/16	1/4	—	—	—
A 1T 6-Y484006		40	0.833	0.875	3/16 1/4	3/16	7/16	1/2	1/4	—	—	—
A 1T 6-Y484008		40	0.833	0.875	1/4	3/16	7/16	1/2	1/4	—	—	—
A 1T 6-Y485006		50	1.042	1.084	3/16 1/4	3/16	7/16	1/2	1/4	—	—	—
A 1T 6-Y485008	50	1.042	1.084	1/4	3/16	7/16	1/2	1/4	—	—	—	
A 1T 6-Y322006	32	20	0.625	0.687	3/16 1/4	3/16	7/16	1/2	1/4	—	—	—
A 1T 6-Y323006		30	0.938	1.000	3/16 1/4	3/16	7/16	5/8	1/4	—	—	—
A 1T 6-Y323008		30	0.938	1.000	1/4	3/16	7/16	5/8	1/4	—	—	—
A 1T 6-Y324008		40	1.250	1.312	5/16	3/16	1/2	5/8	5/16	31/32	5/8	1/32
A 1T 6-Y324010		40	1.250	1.312	1/4	3/16	1/2	5/8	5/16	1-19/64	5/8	1/32
A 1T 6-Y325008		50	1.562	1.625	5/16	3/16	1/2	5/8	5/16	1-19/64	5/8	1/32
A 1T 6-Y325010	50	1.562	1.625	1/4	3/16	1/2	5/8	5/16	1-19/64	5/8	1/32	
A 1T 6-Y242006	24	20	0.833	0.917	3/16 1/4	1/4	9/16	5/8	5/16	—	—	—
A 1T 6-Y242008		20	0.833	0.917	1/4	1/4	9/16	5/8	5/16	—	—	—
A 1T 6-Y243006		30	1.250	1.333	3/16 1/4	1/4	9/16	5/8	5/16	15/16	3/8 7/16	1/16
A 1T 6-Y243008		30	1.250	1.333	1/4	1/4	9/16	5/8	5/16	15/16	3/8 7/16	1/16
A 1T 6-Y244008		40	1.667	1.750	5/16	1/4	9/16	3/4	5/16	1-23/64	3/4	1/16
A 1T 6-Y244010		40	1.667	1.750	1/4	1/4	9/16	3/4	5/16	1-23/64	3/4	1/16
A 1T 6-Y245008	50	2.083	2.167	5/16	1/4	9/16	3/4	5/16	1-25/32	3/4	1/16	
A 1T 6-Y245010	50	2.083	2.167	1/4	1/4	9/16	3/4	5/16	1-25/32	3/4	1/16	

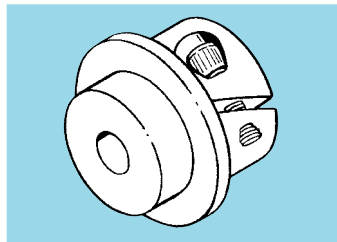
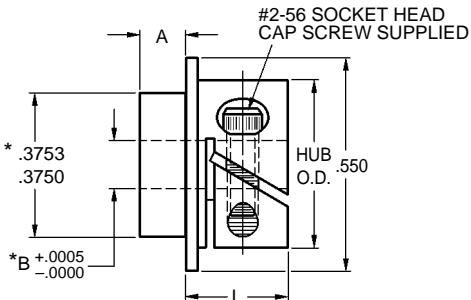
*Gears with 1/8" bore have #2-56 Set Screw and Spot Drill.
 3/16" bore have #4-40 Set Screw and Spot Drill.

Gears with 1/4" bore have #6-32 Set Screw and Spot Drill.
 5/16" bore have #8-32 Set Screw and Spot Drill.

**These are in effect HELICAL gears with a helix angle compatible with the worms. When in mesh, they operate as a worm-pair at right angles. These gears will also mesh with standard-stock steel or brass worms.



Precision Gear & Dial Hubs – Fairloc® Type



* Diameters Concentric Within .0003 T.I.R.

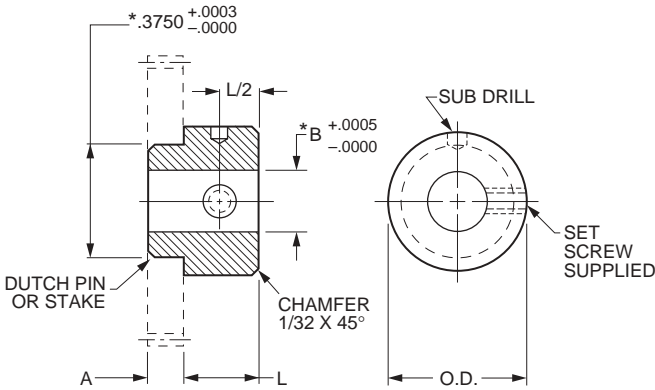


MATERIAL: 303 Stainless Steel

Catalog Number	A	B Bore	L	Hub O.D.	Clear. Radius
S2F06Y-062090	.062	.0900	.265	.437	.273
S2F06Y-125090	.125	.0937			
S2F06Y-062094	.062	.1200			
S2F06Y-125094	.125	.1248			
S2F06Y-062120	.062	.1873			
S2F06Y-125120	.125	.187			
S2F06Y-062187	.062	.2405	.295	.530	.304
S2F06Y-125187	.125	.2498			
S2F06Y-062241	.062	.2498			
S2F06Y-125241	.125	.2498			
S2F06Y-062250	.062	.2498			
S2F06Y-187250	.187	.2498			

Available on request: Hubs assembled to gears or dials and passivation

Fairloc® hubs require controlled shaft tolerances.
Suggested clearance fit between the bore and the shaft is .0001/.0008.



*Diameters Concentric Within .0003 T.I.R.

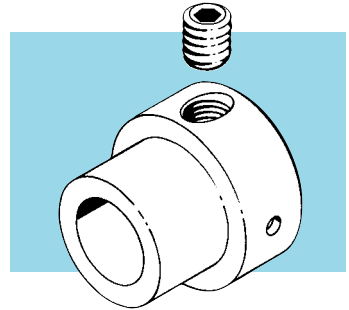
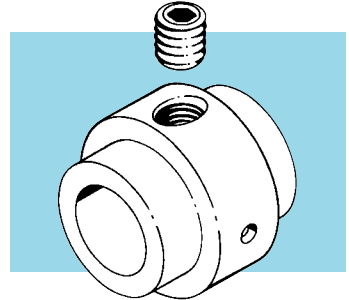
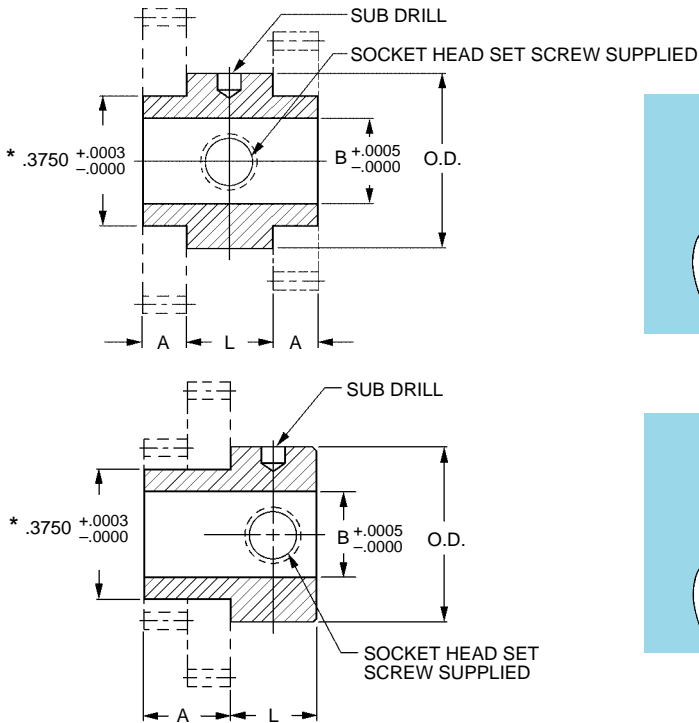


MATERIAL: 303 Stainless Steel

Catalog Number	A	B Bore	L	O.D.	Set Screw
S2006Y-125078	.125	.0781	.22	7/16	#2-56
S2006Y-125090	.125	.0900			
S2006Y-062094	.062	.0937			
S2006Y-125094	.125	.1200			
S2006Y-062120	.062	.1248			
S2006Y-125120	.125	.1562			
S2006Y-062125	.062	.1873			
S2006Y-125125	.125	.2405			
S2006Y-062156	.062	.2498			
S2006Y-125156	.125				
S2006Y-062187	.062		.25	1/2	#6-32
S2006Y-125187	.125				
S2006Y-062241	.062				
S2006Y-125241	.125				
S2006Y-062250	.062				
S2006Y-125250	.125				

Available on special order: Hubs assembled to gears or dials and passivation.

Did You Know?
 ... That Frelon® Lined Linear Bearings in Section 5 offer low cost alternatives to recirculating ball linear bearings?



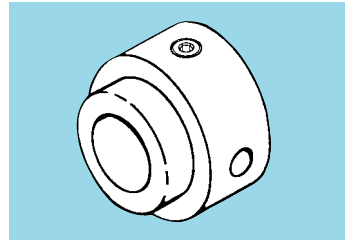
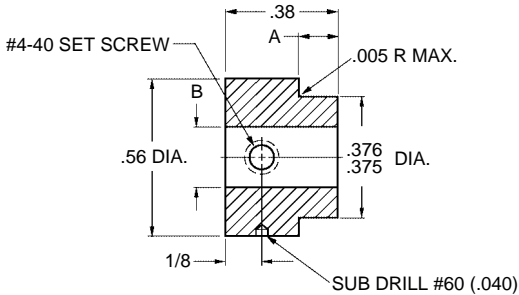
*.3750 Diameters concentric to bore within .0003 T.I.R. **NOTE:** Use with **S1268Z...** series of hubless gears.

MATERIAL: 303 Stainless Steel

Catalog Number	Fig. No.	A	B Bore	L	O.D.	Set Screw	Spot Drill			
S2706Y-125078CL	1	.125	.0781	.25	7/16	#2-56	#69			
S2706Y-125090CL			.0900							
S2706Y-125094CL			.0937							
S2706Y-125120CL			.1200							
S2706Y-125125CL			.1248							
S2706Y-125156CL			.1562							
S2706Y-125187CL			.1873							
S2706Y-125241CL	2	.25	.2405	.22	1/2	#6-32	#50			
S2706Y-125250CL			.2498							
S2706Y-250078CL			.0781					7/16	#2-56	#69
S2706Y-250090CL			.0900							
S2706Y-250094CL			.0937							
S2706Y-250120CL			.1200							
S2706Y-250125CL			.1248							
S2706Y-250156CL	.1562									
S2706Y-250187CL	.1873									
S2706Y-250241CL	2	.25	.2405	.22	1/2	#6-32	#50			
S2706Y-250250CL			.2498							



Pin Type Gear Hub



MATERIAL: 2024-T4 Aluminum Alloy

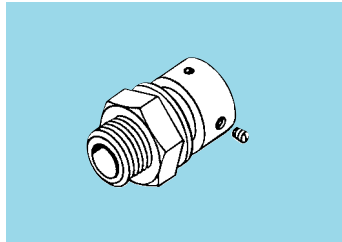
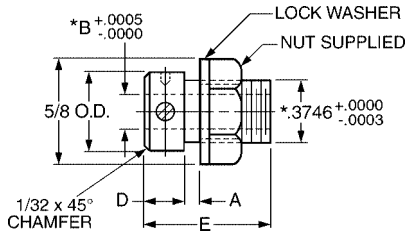
FINISH: Chemical Film

Catalog Number	A Dim. ± .010	B Bore +.001 -.000
A 1A16-25612	.062	.125
A 1A16-35612	.093	
A 1A16-45612	.125	
A 1A16-25615	.062	.156
A 1A16-35615	.093	
A 1A16-45615	.125	
A 1A16-25618	.062	.187
A 1A16-35618	.093	
A 1A16-45618	.125	
A 1A16-25621	.062	.218
A 1A16-35621	.093	
A 1A16-45621	.125	
A 1A16-25625	.062	.250
A 1A16-35625	.093	
A 1A16-45625	.125	
A 1A16-25628	.062	.281
A 1A16-35628	.093	
A 1A16-45628	.125	

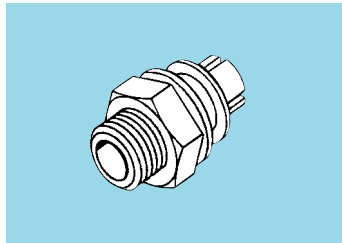
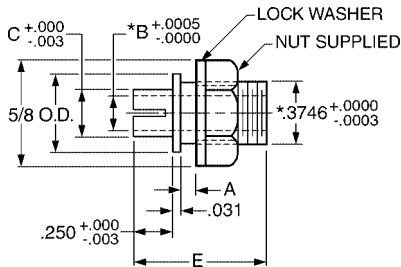
NOTE: For Gears With 1/32 Face Width, Use Hub With .062 "A" Dim.
 For Gears With 1/16 Face Width, Use Hub With .093 "A" Dim.
 For Gears With 3/32 Face Width, Use Hub With .125 "A" Dim.

These Hubs Can Be Used With Stamped Or
 Molded Hubless Gears Or Any Other Component.

**FIG. 1
PIN TYPE
HUB**



**FIG. 2
CLAMP TYPE
HUB**



*Diameters Concentric within .0003 T.I.R.

FIG. 1 • PIN TYPE

MATERIAL: 303 Stainless Steel

Catalog Number	A	B Bore	D	E	O.D.	Set Screw	Spot Drill
S20R6Y-062120	.062	.1200	.22	.53	7/16	#2-56	.029
S20R6Y-125120	.125	.1200	.22	.60	7/16	#2-56	.029
S20R6Y-062125	.062	.1248	.22	.53	7/16	#2-56	.029
S20R6Y-125125	.125	.1248	.22	.60	7/16	#2-56	.029
S20R6Y-062187	.062	.1873	.22	.53	7/16	#4-40	.040
S20R6Y-125187	.125	.1873	.22	.60	7/16	#4-40	.040
S20R6Y-062250	.062	.2498	.25	.53	1/2	#6-32	.086
S20R6Y-125250	.125	.2498	.25	.60	1/2	#6-32	.086

FIG. 2 • CLAMP TYPE

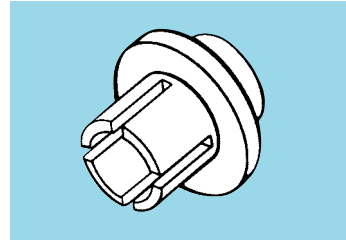
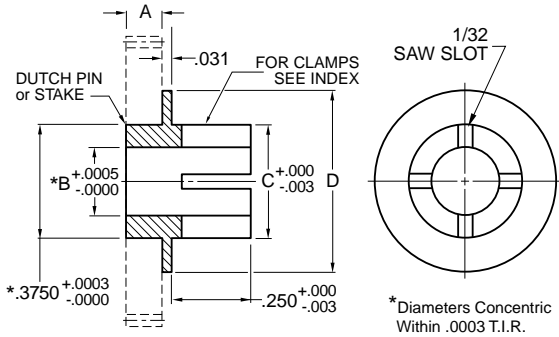
MATERIAL: 303 Stainless Steel

Catalog Number	A	B Bore	C	E	O.D.
S21R6Y-062120	.062	.1200	.188	.53	7/16
S21R6Y-125120	.125	.1200	.188	.60	7/16
S21R6Y-062125	.062	.1248	.188	.53	7/16
S21R6Y-125125	.125	.1248	.188	.60	7/16
S21R6Y-062187	.062	.1873	.250	.53	7/16
S21R6Y-125187	.125	.1873	.250	.60	7/16
S21R6Y-062250	.062	.2498	.312	.53	1/2
S21R6Y-125250	.125	.2498	.312	.60	1/2

Available on special order: Hubs assembled to gears or dials, and passivation.



Precision Gear & Dial Hubs - Clamp Type



MATERIAL: 303 Stainless Steel

Catalog Number	A	B Bore	C	D
S2106Y-062078	.062	.0781	.188	7/16
S2106Y-125078	.125	.0781		
S2106Y-062090	.062	.0900		
S2106Y-125090	.125	.0900		
S2106Y-062094	.062	.0937		
S2106Y-125094	.125	.0937		
S2106Y-062120	.062	.1200	.250	7/16
S2106Y-125120	.125	.1200		
S2106Y-062125	.062	.1248		
S2106Y-125125	.125	.1248		
S2106Y-062156	.062	.1562		
S2106Y-125156	.125	.1562		
S2106Y-062187	.062	.1873	.312	1/2
S2106Y-125187	.125	.1873		
S2106Y-062241	.062	.2405		
S2106Y-125241	.125	.2405		
S2106Y-062250	.062	.2498		
S2106Y-125250	.125	.2498		

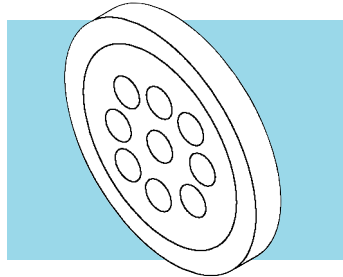
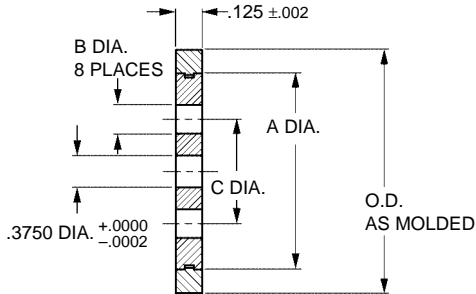
Available on special order: Hubs assembled to gears or dials and passivation.



Aluminum-Acetal Gear Blanks

■ .125 FACE

■ .3750 BORE

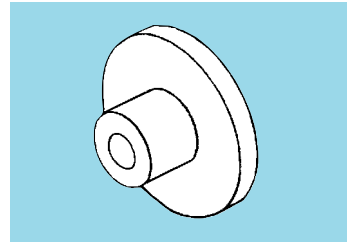
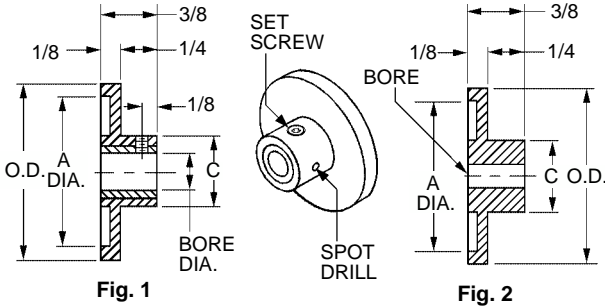


MATERIAL: Core - Aluminum 2024-T3
 Chemical Filmed
 Rim - Acetal

Catalog Number	O.D. ± 1/64	A Dia.	B Dia.	C Dia.
S1268Y-SCB-01P	1-1/8	5/8		
S1268Y-SCB-02P	1-3/8	7/8	—	—
S1268Y-SCB-03P	1-5/8	1-1/8		
S1268Y-SCB-04P	1-7/8	1-3/8		
S1268Y-SCB-05P	2-1/8	1-5/8	7/32	13/16
S1268Y-SCB-06P	2-3/8	1-7/8	5/16	1-3/32
S1268Y-SCB-07P	2-5/8	2-1/8		
S1268Y-SCB-08P	2-7/8	2-3/8	3/8	1-3/8
S1268Y-SCB-09P	3-1/8	2-5/8		
S1268Y-SCB-10P	3-3/8	2-7/8		
S1268Y-SCB-11P	3-5/8	3-1/8	3/8	1-3/4
S1268Y-SCB-13P	4-1/8	3-5/8		



■ FOR GEARS, PULLEYS AND FRICTION DRIVES



● FIG. 1 – WITH INSERT

MATERIAL: Blank – Acetal
Insert – Brass

Catalog Number	O.D. ±.010	Bore +.001 -.000	C Hub Dia.	A Dim.	Catalog Number	O.D. ±.010	Bore +.001 -.000	C Hub Dia.	A Dim.			
A 1T15-0804	.760	.125	33/64	—	A 1T15-1504	1.515	.125	5/8	1			
A 1T15-0806		.1875			A 1T15-1506		.1875					
A 1T15-0808		.250			A 1T15-1508		.250					
A 1T15-0904	.885	.125			A 1T15-1804	.125	1.765			.1875	3/4	1-1/8
A 1T15-0906		.1875			A 1T15-1806					.1875		
A 1T15-0908		.250			A 1T15-1808					.250		
A 1T15-1004	1.010	.125	A 1T15-2104	.125	2.140	.1875		3/4	1-3/8			
A 1T15-1006		.1875	A 1T15-2106			.1875						
A 1T15-1008		.250	A 1T15-2108			.250						
A 1T15-1104	1.135	.125	A 1T15-2404	.125		2.390	.1875			3/4	1-13/16	
A 1T15-1106		.1875	A 1T15-2406				.1875					
A 1T15-1108		.250	A 1T15-2408				.250					
A 1T15-1304	1.260	.125	A 1T15-2804	.125	2.765		.1875	3/4	2			
A 1T15-1306		.1875	A 1T15-2806				.1875					
A 1T15-1308		.250	A 1T15-2808				.250					

Blanks With: .125 Bore Have #2-56 Set Screw And Spot Drill.
.1875 Bore Have #4-40 Set Screw And Spot Drill.
.250 Bore Have #6-32 Set Screw And Spot Drill.

Continued on the next page

● FIG. 2 – WITHOUT INSERT MATERIAL: Acetal

Catalog Number	O.D. ±.010	Bore +.000 -.0015	C Hub Dia.	A Dim.
A 1M15-08	.760	.374	33/64	—
A 1M15-09	.885			
A 1M15-10	1.010			
A 1M15-11	1.135	.437	5/8	—
A 1M15-13	1.260			
A 1M15-15	1.515			
A 1M15-18	1.765	.437	3/4	1-1/8
A 1M15-21	2.140			1-3/8
A 1M15-24	2.390			1-13/16
A 1M15-28	2.765			2



■ FOR GEARS, PULLEYS AND FRICTION DRIVES

1
GEARS

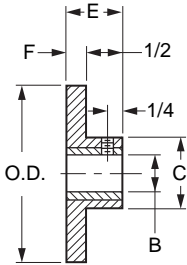


Fig. 1

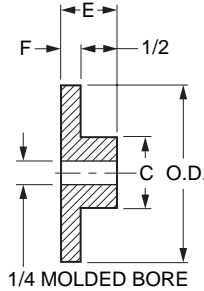
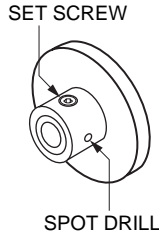


Fig. 2

MATERIAL: Blank – Acetal

Insert – Brass

● WITH INSERT FIG. 1

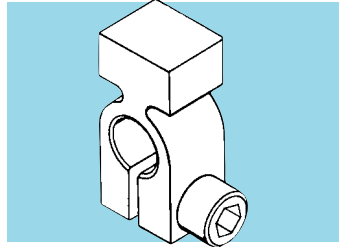
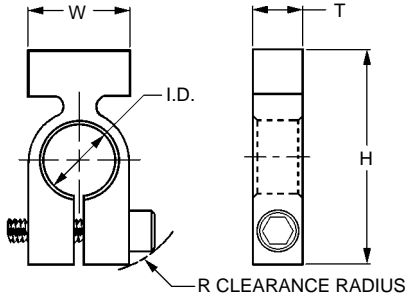
Catalog Number	O.D. +.00 -.02	B Bore +.001 -.000	F Face Width	E Length	C Hub Dia.
A 1T15-21204	1-1/4	.125	1/8	5/8	5/8
A 1T15-21206		.1875			
A 1T15-21208		.250			
A 1T15-31204		.125	3/16	11/16	
A 1T15-31206		.1875			
A 1T15-31208		.250			
A 1T15-41206		.1875	1/4	3/4	
A 1T15-41208		.250			
A 1T15-41210		.3125			
A 1T15-21704		1-3/4	.125	1/8	
A 1T15-21706	.1875				
A 1T15-21708	.250				
A 1T15-31704	.125		3/16	11/16	
A 1T15-31706	.1875				

Catalog Number	O.D. +.00 -.02	B Bore +.001 -.000	F Face Width	E Length	C Hub Dia.
A 1T15-31708	1-3/4	.250	3/16	11/16	3/4
A 1T15-41706		.1875	1/4	3/4	
A 1T15-41708		.250			
A 1T15-41710		.3125			
A 1T15-22704	2-3/4	.125	1/8	5/8	1
A 1T15-22706		.1875			
A 1T15-22708		.250			
A 1T15-32704		.125	3/16	11/16	
A 1T15-32706		.1875			
A 1T15-32708		.250			
A 1T15-42706		.1875	1/4	3/4	
A 1T15-42708		.250			
A 1T15-42710		.3125			

Blanks With: .125 Bore Have #2-56 Set Screw And Spot Drill.
 .1875 Bore Have #4-40 Set Screw And Spot Drill.
 .250 Bore Have #6-32 Set Screw And Spot Drill.
 .3125 Bore Have #8-32 Set Screw And Spot Drill.

● WITHOUT INSERT FIG. 2 MATERIAL: Acetal ● 1/4" HOLE IN HUB

Catalog Number	O.D.	F Face Width	E Length	C Hub Dia.
A 1M15-212	1-1/4	1/8	5/8	5/8
A 1M15-312		3/16	11/16	
A 1M15-412		1/4	3/4	
A 1M15-217	1-3/4	1/8	5/8	3/4
A 1M15-317		3/16	11/16	
A 1M15-417		1/4	3/4	
A 1M15-227	2-3/4	1/8	5/8	1
A 1M15-327		3/16	11/16	
A 1M15-427		1/4	3/4	

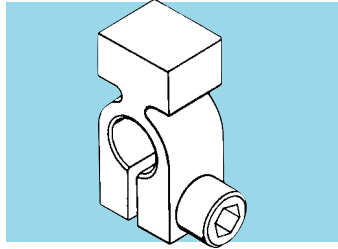
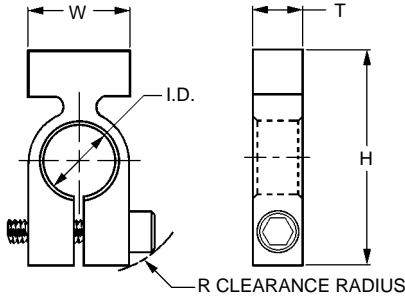


Tolerances	
Decimals	± .005
Fractions	± 1/64

M	Material
1	Carbon Steel, Cadmium Plated
2	303 Stainless Steel
3	416 Stainless Steel (Rc 38-45)
4	416 Stainless Steel (Rc 38-45) Black Oxide

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.001 -.000	H	T	W	Screw Size	R
S3300Y-C098	1/8	1	.188	11/16	.140	.312	#2-56	27/64
S3300Y-C099	3/16		.251	51/64		.375		1/2
S3300Y-C100	1/4		.313	13/16		.437		33/64
S3300Y-C101	5/16		.376	7/8		.500		9/16
S3300Y-C102	3/8	.438	1-1/32	.625	41/64			
S3300Y-C083	1/8	1	.188	11/16	.250	.312	#6-32	27/64
S3300Y-C084	3/16		.251	51/64		.375		1/2
S3300Y-C085	1/4		.313	13/16		.437		33/64
S3300Y-C086	5/16		.376	7/8		.500		9/16
S3300Y-C087	3/8	.438	1-1/32	.625	41/64			
S3300Y-C088	1/8	2	.188	11/16	.250	.312	#6-32	27/64
S3300Y-C089	3/16		.251	51/64		.375		1/2
S3300Y-C090	1/4		.313	13/16		.437		33/64
S3300Y-C091	5/16		.376	7/8		.500		9/16
S3300Y-C092	3/8	.438	1-1/32	.625	41/64			
S3300Y-C160	1/8	3	.188	11/16	.240	.312	#6-32	27/64
S3300Y-C161	3/16		.250	13/16		.375		1/2
S3300Y-C162	1/4		.312	13/16		.437		33/64
S3300Y-C163	1/8		.188	11/16		.312		27/64
S3300Y-C164	3/16	.250	13/16	.375	1/2			
S3300Y-C165	1/4	.312	13/16	.437	33/64			



Tolerances	
Decimals	± .010
Fractions	± 1/32

M	Material
1	Carbon Steel
2	303 Stainless Steel
3	416 Stainless Steel (Rc 38-45)
4	416 Stainless Steel (Rc 38-45) Black Oxide

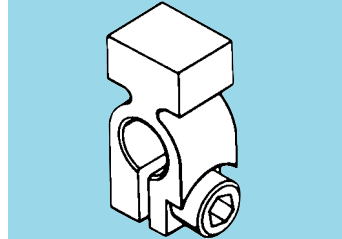
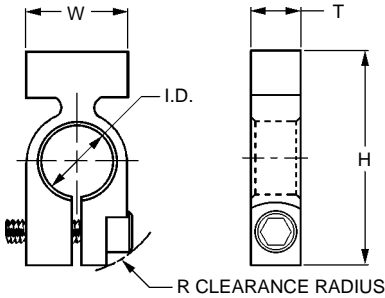
NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.002 -.000	H	T	W	Screw Size	R
S3300Y-J098	1/8	1	.188	11/16	.140	.312	#2-56	27/64
S3300Y-J099	3/16		.251	51/64		.375		1/2
S3300Y-J100	1/4		.313	13/16		.437		33/64
S3300Y-J101	5/16		.376	7/8		.500		9/16
S3300Y-J102	3/8	.438	1-1/32	.625	41/64			
S3300Y-J083	1/8	1	.188	11/16	.250	.312	#6-32	27/64
S3300Y-J084	3/16		.251	51/64		.375		1/2
S3300Y-J085	1/4		.313	13/16		.437		33/64
S3300Y-J086	5/16		.376	7/8		.500		9/16
S3300Y-J087	3/8	.438	1-1/32	.625	41/64			
S3300Y-J088	1/8	2	.188	11/16	.250	.312	#6-32	27/64
S3300Y-J089	3/16		.251	51/64		.375		1/2
S3300Y-J090	1/4		.313	13/16		.437		33/64
S3300Y-J091	5/16		.376	7/8		.500		9/16
S3300Y-J092	3/8	.438	1-1/32	.625	41/64			
S3300Y-J160	1/8	3	.188	11/16	.240	.312	#6-32	27/64
S3300Y-J161	3/16		.250	13/16		.375		1/2
S3300Y-J162	1/4		.312	13/16		.437		33/64
S3300Y-J163	1/8		.188	11/16		.312		27/64
S3300Y-J164	3/16	.250	13/16	.375	1/2			
S3300Y-J165	1/4	.312	13/16	.437	33/64			



Precision Balanced-Type Gear Clamps

■ REDUCED CLEARANCE RADIUS



Tolerances	
Decimals	± .005
Fractions	± 1/64

M	Material
1	Carbon Steel, Cadmium Plated
2	303 Stainless Steel

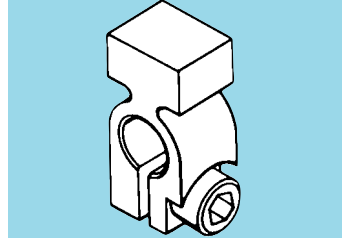
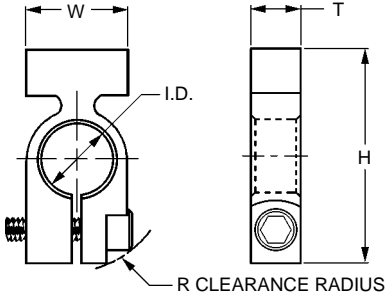
NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.001 -.000	H	T	W	Screw Size	R
S3301Y-C103	1/8	1	.188	11/16	.140	.312	#2-56	25/64
S3301Y-C104	3/16		.251	51/64		.375		15/32
S3301Y-C105	1/4		.313	13/16		.437		31/64
S3301Y-C106	5/16		.376	7/8		.500		17/32
S3301Y-C107	3/8		.438	1-1/32		.625		39/64
S3301Y-C093	1/8	1	.188	11/16	.250	.312	#6-32	25/64
S3301Y-C094	3/16		.251	51/64		.375		15/32
S3301Y-C095	1/4		.313	13/16		.437		31/64
S3301Y-C096	5/16		.376	7/8		.500		17/32
S3301Y-C097	3/8		.438	1-1/32		.625		39/64
S3301Y-C093S	1/8	2	.188	11/16	.250	.312	#6-32	25/64
S3301Y-C094S	3/16		.251	51/64		.375		15/32
S3301Y-C095S	1/4		.313	13/16		.437		31/64
S3301Y-C096S	5/16		.376	7/8		.500		17/32
S3301Y-C097S	3/8		.438	1-1/32		.625		39/64



Commercial Balanced-Type Gear Clamps

■ REDUCED CLEARANCE RADIUS



Tolerances	
Decimals	± .010
Fractions	± 1/32

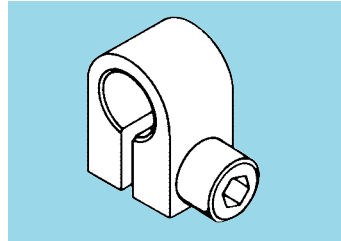
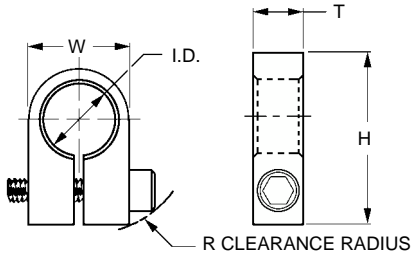
M	Material
1	Carbon Steel
2	303 Stainless Steel

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.002 -.000	H	T	W	Screw Size	R
S3301Y-J103	1/8	1	.188	11/16	.140	.312	#2-56	25/64
S3301Y-J104	3/16		.251	51/64		.375		15/32
S3301Y-J105	1/4		.313	13/16		.437		31/64
S3301Y-J106	5/16		.376	7/8		.500		17/32
S3301Y-J107	3/8		.438	1-1/32		.625		39/64
S3301Y-J093	1/8	1	.188	11/16	.250	.312	#6-32	25/64
S3301Y-J094	3/16		.251	51/64		.375		15/32
S3301Y-J095	1/4		.313	13/16		.437		31/64
S3301Y-J096	5/16		.376	7/8		.500		17/32
S3301Y-J097	3/8		.438	1-1/32		.625		39/64
S3301Y-J093S	1/8	2	.188	11/16	.250	.312	#6-32	25/64
S3301Y-J094S	3/16		.251	51/64		.375		15/32
S3301Y-J095S	1/4		.313	13/16		.437		31/64
S3301Y-J096S	5/16		.376	7/8		.500		17/32
S3301Y-J097S	3/8		.438	1-1/32		.625		39/64



Precision Split-Hub Gear Clamps



Tolerances	
Decimals	± .005
Fractions	± 1/64

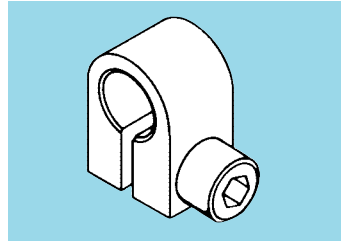
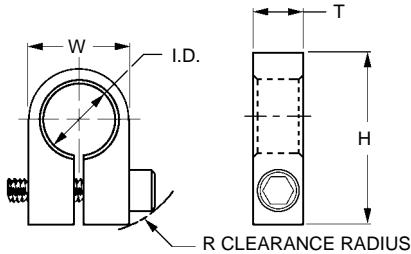
M	Material
1	Carbon Steel, Cadmium Plated
2	303 Stainless Steel
3	416 Stainless Steel (Rc 38-45)

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.001 -.000	H	T	W	Screw Size	R
S3700Y-C113	1/8	1	.188	15/32	.140	.312	#2-56	11/32
S3700Y-C114	3/16		.251	1/2		.375		25/64
S3700Y-C115	1/4		.313	19/32		.437		7/16
S3700Y-C116	5/16		.376	21/32		.500		15/32
S3700Y-C117	3/8		.438	25/32		.625		9/16
S3700Y-C113S	1/8	2	.188	15/32	.140	.312	#2-56	11/32
S3700Y-C114S	3/16		.251	1/2		.375		25/64
S3700Y-C115S	1/4		.313	19/32		.437		7/16
S3700Y-C116S	5/16		.376	21/32		.500		15/32
S3700Y-C117S	3/8		.438	25/32		.625		9/16
S3700Y-C143-2	1/8	1	.188	15/32	.250	.312	#6-32	27/64
S3700Y-C143-3	3/16		.251	9/16		.375		31/64
S3700Y-C143-4	1/4		.313	19/32		.437		1/2
S3700Y-C143-5	5/16		.376	21/32		.500		9/16
S3700Y-C143-6	3/8		.438	25/32		.625		41/64
S3700Y-C143-2S	1/8	2	.188	15/32	.250	.312	#6-32	27/64
S3700Y-C143-3S	3/16		.251	9/16		.375		31/64
S3700Y-C143-4S	1/4		.313	19/32		.437		1/2
S3700Y-C143-5S	5/16		.376	21/32		.500		9/16
S3700Y-C143-6S	3/8		.438	25/32		.625		41/64
S3700Y-C143-2X	1/8	3	.188	15/32	.250	.312	#6-32	27/64
S3700Y-C143-3X	3/16		.251	9/16		.375		31/64
S3700Y-C143-4X	1/4		.313	19/32		.437		1/2
S3700Y-C143-5X	5/16		.376	21/32		.500		9/16
S3700Y-C143-6X	3/8		.438	25/32		.625		41/64



Commercial Split-Hub Gear Clamps



Tolerances	
Decimals	± .010
Fractions	± 1/32

M	Material
1	Carbon Steel
2	303 Stainless Steel
3	416 Stainless Steel (Rc 38-45)

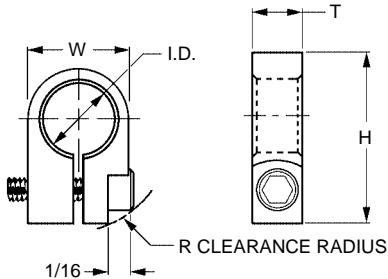
NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.002 -.000	H	T	W	Screw Size	R
S3700Y-J113	1/8	1	.188	15/32	.140	.312	#2-56	11/32
S3700Y-J114	3/16		.251	1/2		.375		25/64
S3700Y-J115	1/4		.313	19/32		.437		7/16
S3700Y-J116	5/16		.376	21/32		.500		15/32
S3700Y-J117	3/8		.438	25/32		.625		9/16
S3700Y-J113S	1/8	2	.188	15/32	.140	.312	#2-56	11/32
S3700Y-J114S	3/16		.251	1/2		.375		25/64
S3700Y-J115S	1/4		.313	19/32		.437		7/16
S3700Y-J116S	5/16		.376	21/32		.500		15/32
S3700Y-J117S	3/8		.438	25/32		.625		9/16
S3700Y-J143-2	1/8	1	.188	15/32	.250	.312	#6-32	27/64
S3700Y-J143-3	3/16		.251	9/16		.375		31/64
S3700Y-J143-4	1/4		.313	19/32		.437		1/2
S3700Y-J143-5	5/16		.376	21/32		.500		9/16
S3700Y-J143-6	3/8		.438	25/32		.625		41/64
S3700Y-J143-2S	1/8	2	.188	15/32	.250	.312	#6-32	27/64
S3700Y-J143-3S	3/16		.251	9/16		.375		31/64
S3700Y-J143-4S	1/4		.313	19/32		.437		1/2
S3700Y-J143-5S	5/16		.376	21/32		.500		9/16
S3700Y-J143-6S	3/8		.438	25/32		.625		41/64
S3700Y-J143-2X	1/8	3	.188	15/32	.250	.312	#6-32	27/64
S3700Y-J143-3X	3/16		.251	9/16		.375		31/64
S3700Y-J143-4X	1/4		.313	19/32		.437		1/2
S3700Y-J143-5X	5/16		.376	21/32		.500		9/16
S3700Y-J143-6X	3/8		.438	25/32		.625		41/64



Precision Split-Hub Gear Clamps

■ REDUCED CLEARANCE RADIUS



Tolerances	
Decimals	± .005
Fractions	± 1/64

M	Material
1	Carbon Steel, Cadmium Plated
2	303 Stainless Steel
3	416 Stainless Steel (Rc 38-45)

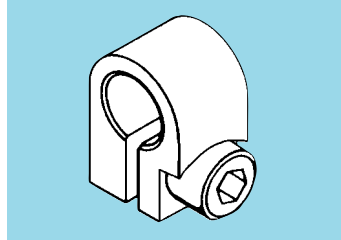
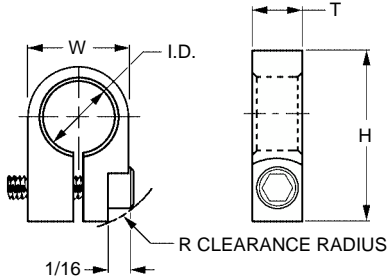
NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.001 -.000	H	T	W	Screw Size	R
S3701Y-C118	1/8	1	.188	15/32	.140	.312	#2-56	5/16
S3701Y-C119	3/16		.251	1/2		.375		23/64
S3701Y-C120	1/4		.313	19/32		.437		25/64
S3701Y-C121	5/16		.376	21/32		.500		7/16
S3701Y-C122	3/8		.438	25/32		.625		33/64
S3701Y-C118S	1/8	2	.188	15/32	.140	.312	#2-56	5/16
S3701Y-C119S	3/16		.251	1/2		.375		23/64
S3701Y-C120S	1/4		.313	19/32		.437		25/64
S3701Y-C121S	5/16		.376	21/32		.500		7/16
S3701Y-C122S	3/8		.438	25/32		.625		33/64
S3701Y-C108	1/8	1	.188	15/32	.250	.312	#6-32	3/8
S3701Y-C109	3/16		.251	9/16		.375		29/64
S3701Y-C110	1/4		.313	19/32		.437		15/32
S3701Y-C111	5/16		.376	21/32		.500		33/64
S3701Y-C112	3/8		.438	25/32		.625		19/32
S3701Y-C108S	1/8	2	.188	15/32	.250	.312	#6-32	3/8
S3701Y-C109S	3/16		.251	9/16		.375		29/64
S3701Y-C110S	1/4		.313	19/32		.437		15/32
S3701Y-C111S	5/16		.376	21/32		.500		33/64
S3701Y-C112S	3/8		.438	25/32		.625		19/32
S3701Y-C108X	1/8	3	.188	15/32	.250	.312	#6-32	3/8
S3701Y-C109X	3/16		.251	9/16		.375		29/64
S3701Y-C110X	1/4		.313	19/32		.437		15/32
S3701Y-C111X	5/16		.376	21/32		.500		33/64
S3701Y-C112X	3/8		.438	25/32		.625		19/32



Commercial Split-Hub Gear Clamps

■ REDUCED CLEARANCE RADIUS



Tolerances	
Decimals	± .010
Fractions	± 1/32

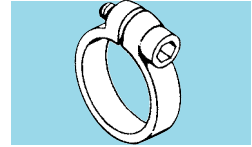
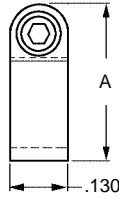
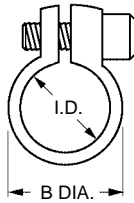
M	Material
1	Carbon Steel
2	303 Stainless Steel
3	416 Stainless Steel (Rc 38-45)

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	M	I.D. +.002 -.000	H	T	W	Screw Size	R
S3701Y-J118	1/8	1	.188	15/32	.140	.312	#2-56	5/16
S3701Y-J119	3/16		.251	1/2		.375		23/64
S3701Y-J120	1/4		.313	19/32		.437		25/64
S3701Y-J121	5/16		.376	21/32		.500		7/16
S3701Y-J122	3/8		.438	25/32		.625		33/64
S3701Y-J118S	1/8	2	.188	15/32	.140	.312	#2-56	5/16
S3701Y-J119S	3/16		.251	1/2		.375		23/64
S3701Y-J120S	1/4		.313	19/32		.437		25/64
S3701Y-J121S	5/16		.376	21/32		.500		7/16
S3701Y-J122S	3/8		.438	25/32		.625		33/64
S3701Y-J108	1/8	1	.188	15/32	.250	.312	#6-32	3/8
S3701Y-J109	3/16		.251	9/16		.375		29/64
S3701Y-J110	1/4		.313	19/32		.437		15/32
S3701Y-J111	5/16		.376	21/32		.500		33/64
S3701Y-J112	3/8		.438	25/32		.625		19/32
S3701Y-J108S	1/8	2	.188	15/32	.250	.312	#6-32	3/8
S3701Y-J109S	3/16		.251	9/16		.375		29/64
S3701Y-J110S	1/4		.313	19/32		.437		15/32
S3701Y-J111S	5/16		.376	21/32		.500		33/64
S3701Y-J112S	3/8		.438	25/32		.625		19/32
S3701Y-J108X	1/8	3	.188	15/32	.250	.312	#6-32	3/8
S3701Y-J109X	3/16		.251	9/16		.375		29/64
S3701Y-J110X	1/4		.313	19/32		.437		15/32
S3701Y-J111X	5/16		.376	21/32		.500		33/64
S3701Y-J112X	3/8		.438	25/32		.625		19/32



Precision Split-Hub Gear Clamps



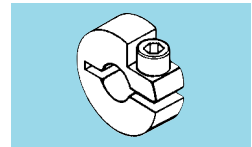
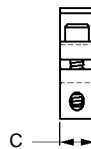
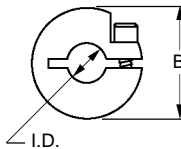
Tolerances	
Decimals	± .005
Fractions	± 1/64

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.001 -.000	A ± .008	B Diameter	Screw Size	Clearance Radius
303 Stainless Steel					
S3503Y-C058	.125	.305	.190	#2-56	9/32
S3503Y-C059	.187	.370	.250		5/16
S3503Y-C060	.250	.435	.310		11/32



Precision Split-Hub Gear Clamps



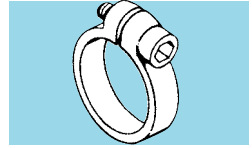
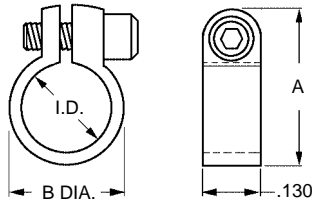
Tolerances	
Decimals	± .005
Fractions	± 1/64

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	Shaft Size	I.D. +.001 -.000	B	C	Screw Size	Clearance Radius
303 Stainless Steel	2024-T351 Aluminum Anodized					
S3501Y-C062	S3501Y-C065	.125	7/8	.250	#6-32	33/64
S3501Y-C063	S3501Y-C066	.187				
S3501Y-C064	S3501Y-C067	.250				
S3501Y-C068	S3501Y-C071	.093	5/8	.156	#2-56	3/8
S3501Y-C069	S3501Y-C072	.125				
S3501Y-C070	S3501Y-C073	.187				
S3501Y-C074	S3501Y-C077	.093	9/16	.156	#2-56	3/8
S3501Y-C075	S3501Y-C078	.125				
S3501Y-C076	S3501Y-C079	.187				
S3501Y-C075M	S3501Y-C078M	.125	9/16	.125	#1-72	3/8
S3501Y-C076M	S3501Y-C079M	.187				



Commercial Split-Hub Gear Clamps



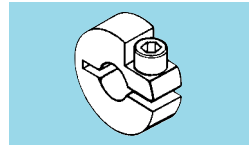
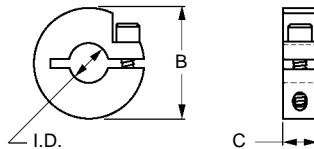
Tolerances	
Decimals	± .010
Fractions	± 1/32

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.002 -.000	A ± .016	B Diameter	Screw Size	Clearance Radius
303 Stainless Steel					
S3503Y-J058	.125	.305	.190	#2-56	9/32
S3503Y-J059	.187	.370	.250		5/16
S3503Y-J060	.250	.435	.310		11/32



Commercial Split-Hub Gear Clamps



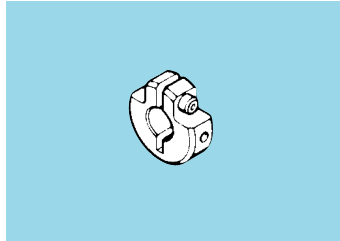
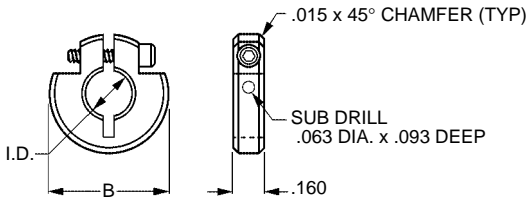
Tolerances	
Decimals	± .010
Fractions	± 1/32

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number		Shaft Size	I.D. +.002 -.000	B	C	Screw Size	Clearance Radius
303 Stainless Steel	2024-T351 Aluminum						
S3501Y-J062	S3501Y-J065	.125	.188	7/8	.250	#6-32	33/64
S3501Y-J063	S3501Y-J066	.187	.250				
S3501Y-J064	S3501Y-J067	.250	.313				
S3501Y-J068	S3501Y-J071	.093	.125	5/8	.156	#2-56	3/8
S3501Y-J069	S3501Y-J072	.125	.188				
S3501Y-J070	S3501Y-J073	.187	.250				
S3501Y-J074	S3501Y-J077	.093	.125	9/16	.156	#2-56	3/8
S3501Y-J075	S3501Y-J078	.125	.188				
S3501Y-J076	S3501Y-J079	.187	.250				
S3501Y-J075M	S3501Y-J078M	.125	.188	9/16	.125	#1-72	3/8
S3501Y-J076M	S3501Y-J079M	.187	.250				



Precision Gear Clamps



Tolerances	
Decimals	± .005
Fractions	± 1/64

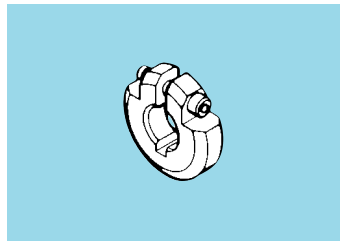
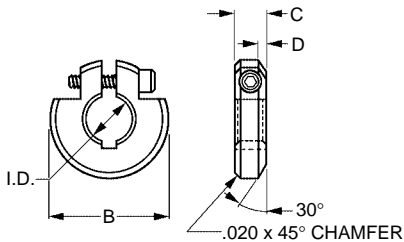


NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.0005 -.0000	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel				
S3502Y-C152	.1250	.500	#2-56	19/64
S3502Y-C153	.1562			
S3502Y-C154	.1875			
S3502Y-C155	.2500	.594	#2-56	11/32



Precision Split-Hub Gear Clamps 1/8 Shaft



Tolerances	
Decimals	± .005
Fractions	± 1/64

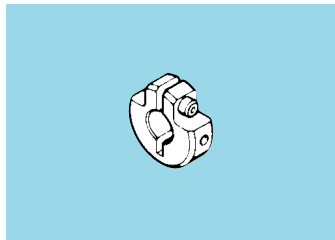
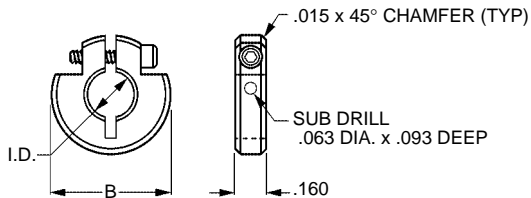


NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.001 -.000	B	C	D	Screw Size	Clearance Radius
303 Stainless Steel						
S3502Y-C057	.1875	.500	.120	.030	#1-72	19/64



Commercial Gear Clamps



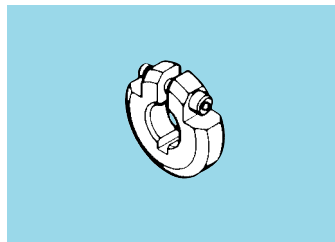
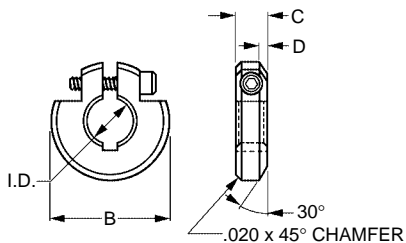
Tolerances	
Decimals	± .010
Fractions	± 1/32

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.001 -.000	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel				
S3502Y-J152	.1250	.500	#2-56	19/64
S3502Y-J153	.1562			
S3502Y-J154	.1875			
S3502Y-J155	.2500	.594	#2-56	11/32



Commercial Split-Hub Gear Clamps 1/8 Shaft



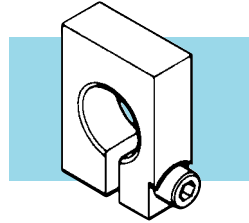
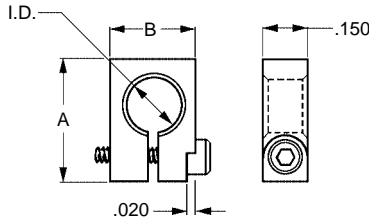
Tolerances	
Decimals	± .010
Fractions	± 1/32

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.002 -.000	B	C	D	Screw Size	Clearance Radius
303 Stainless Steel						
S3502Y-J057	.1875	.500	.120	.030	#1-72	19/64

S INCH

Precision Reduced Clearance Gear Clamps



Tolerances	
Decimals	± .005

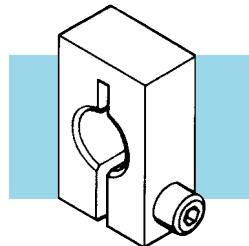
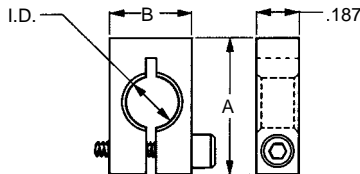
S Precision Component

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.001 -.000	A	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel					
S3201Y-C046	.1250	.290	.196	#2-56	.26
S3201Y-C047	.1406	.304	.210		.27
S3201Y-C048	.1562	.320	.226		.28
S3201Y-C049	.1718	.336	.242		.29
S3201Y-C050	.1875	.352	.258		.30
S3201Y-C051	.2031	.368	.274		.31
S3201Y-C052	.2187	.382	.288		.32
S3201Y-C053	.2343	.398	.304		.33
S3201Y-C054	.2500	.414	.320		.35

S INCH

Precision Gear Clamps



Tolerances	
Decimals	± .005
Fractions	± 1/64

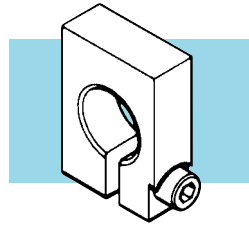
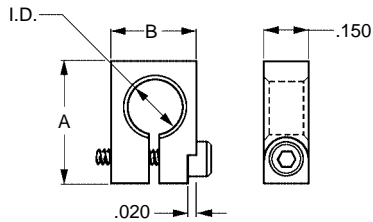
S Precision Component

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.001 -.000	A	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel					
S3200Y-C145	.187	1/2	.312	#4-40	25/64
S3200Y-C146	.250	5/8	.375		7/16



Commercial Reduced Clearance Gear Clamps



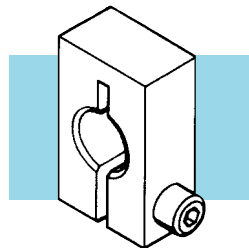
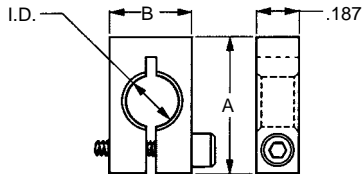
Tolerances	
Decimals	± .010

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number	I.D. +.002 -.000	A	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel					
S3201Y-J046	.1250	.290	.196	#2-56	.26
S3201Y-J047	.1406	.304	.210		.27
S3201Y-J048	.1562	.320	.226		.28
S3201Y-J049	.1718	.336	.242		.29
S3201Y-J050	.1875	.352	.258		.30
S3201Y-J051	.2031	.368	.274		.31
S3201Y-J052	.2187	.382	.288		.32
S3201Y-J053	.2343	.398	.304		.33
S3201Y-J054	.2500	.414	.320		.35



Commercial Gear Clamps



Tolerances	
Decimals	± .010
Fractions	± 1/32

NOTE: Stainless Steel Socket Head Cap Screw Supplied

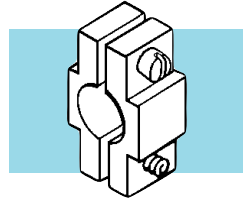
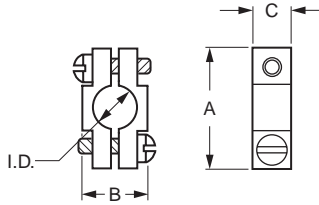
Catalog Number	I.D. +.002 -.000	A	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel					
S3200Y-J145	.187	1/2	.312	#4-40	25/64
S3200Y-J146	.250	5/8	.375		7/16



Precision Two-Piece Balanced Gear Clamps

1

GEARS



Tolerances	
Decimals	± .005
Fractions	± 1/64

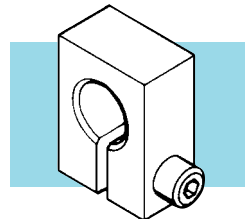
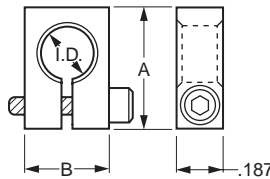
NOTE: Stainless Steel Slotted Fillister Head Screws Supplied

Catalog Number		Shaft Size	I.D. +.002 -.000	A	B	C	Screw Size	Clearance Radius
Hardened 416 Stainless Steel	303 Stainless Steel							
S3401Y-C147-2	S3401Y-C147-2S	1/8	.187	.500	.286	.156	#2-56	9/32
S3401Y-C147-3	S3401Y-C147-3S	3/16	.250	.590	.350	.187	#3-48	11/32
S3401Y-C147-4	S3401Y-C147-4S	1/4	.312	.687	.420	.187	#4-40	13/32
S3401Y-C147-5	S3401Y-C147-5S	5/16	.375	.781	.510	.187	#4-40	15/32
S3401Y-C147-6	S3401Y-C147-6S	3/8	.437	.890	.636	.250	#6-32	17/32

For Socket Head Screws, Add "H" To The End Of Catalog Number



Precision Split-Hub Gear Clamps

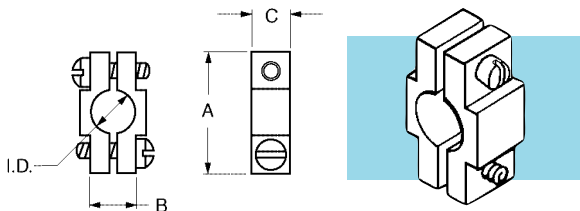


Tolerances	
Decimals	± .005
Fractions	± 1/64

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number		Shaft Size	I.D. +.001 -.000	A	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel							
S3200Y-C043		1/16	.125	23/64	.218	#4-40	21/64
S3200Y-C044		1/8	.187	27/64	.281		25/64
S3200Y-C045		3/16	.250	31/64	.344		7/16

S INCH Commercial Two-Piece Balanced Gear Clamps



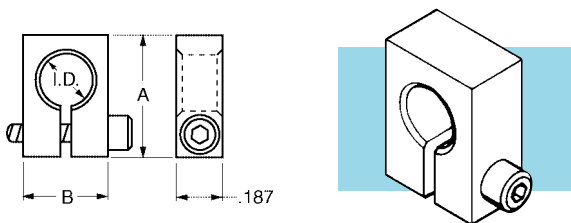
Tolerances	
Decimals	± .010
Fractions	± 1/32

NOTE: Stainless Steel Slotted Fillister Head Screws Supplied

Catalog Number		Shaft Size	I.D. +.004 -.000	A	B	C	Screw Size	Clearance Radius
Hardened 416 Stainless Steel	303 Stainless Steel							
S3401Y-J147-2	S3401Y-J147-2S	1/8	.187	.500	.286	.156	#2-56	9/32
S3401Y-J147-3	S3401Y-J147-3S	3/16	.250	.590	.350	.187	#3-48	11/32
S3401Y-J147-4	S3401Y-J147-4S	1/4	.312	.687	.420	.187	#4-40	13/32
S3401Y-J147-5	S3401Y-J147-5S	5/16	.375	.781	.510	.187	#4-40	15/32
S3401Y-J147-6	S3401Y-J147-6S	3/8	.437	.890	.636	.250	#6-32	17/32

For Socket Head Screws, Add "H" To The End Of Catalog Number

S INCH Commercial Split-Hub Gear Clamps



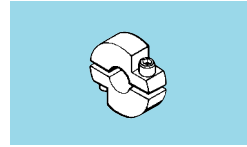
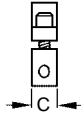
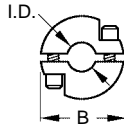
Tolerances	
Decimals	± .010
Fractions	± 1/32

NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number		Shaft Size	I.D. +.002 -.000	A	B	Screw Size	Clearance Radius
Hardened 416 Stainless Steel							
S3200Y-J043		1/16	.125	23/64	.218	#4-40	21/64
S3200Y-J044		1/8	.187	27/64	.281		25/64
S3200Y-J045		3/16	.250	31/64	.344		7/16



Precision Two-Piece Balanced Gear Clamps



Tolerances	
Decimals	± .005
Fractions	± 1/64

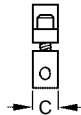
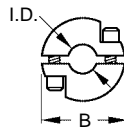


NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number		Shaft Size	I.D. +.001 -.000	B	C	Screw Size	Clearance Radius
303 Stainless Steel	2024-T351 Aluminum Anodized						
S3402Y-C225	S3402Y-C228	1/8	.188	7/8	.250	#6-32	33/64
S3402Y-C226	S3402Y-C229	3/16	.250				
S3402Y-C227	S3402Y-C230	1/4	.313				
S3402Y-C231	S3402Y-C234	3/32	.125	9/16	.156	#2-56	25/64
S3402Y-C232	S3402Y-C235	1/8	.188				
S3402Y-C233	S3402Y-C236	3/16	.250				



Commercial Two-Piece Balanced Gear Clamps



Tolerances	
Decimals	± .010
Fractions	± 1/32

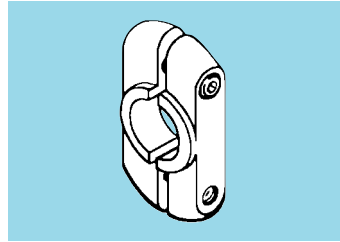
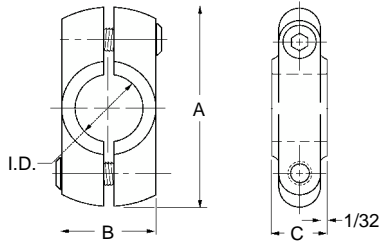
NOTE: Stainless Steel Socket Head Cap Screw Supplied

Catalog Number		Shaft Size	I.D. +.002 -.000	B	C	Screw Size	Clearance Radius
303 Stainless Steel	2024-T351 Aluminum						
S3402Y-J225	S3402Y-J228	1/8	.188	7/8	.250	#6-32	33/64
S3402Y-J226	S3402Y-J229	3/16	.250				
S3402Y-J227	S3402Y-J230	1/4	.313				
S3402Y-J231	S3402Y-J234	3/32	.125	9/16	.156	#2-56	25/64
S3402Y-J232	S3402Y-J235	1/8	.188				
S3402Y-J233	S3402Y-J236	3/16	.250				



Two-Piece Balanced Gear Clamps

■ PRECISION AND COMMERCIAL



Precision Tolerances	
Decimals	± .005
Fractions	± 1/64

Commercial Tolerances	
Decimals	± .010
Fractions	± 1/32

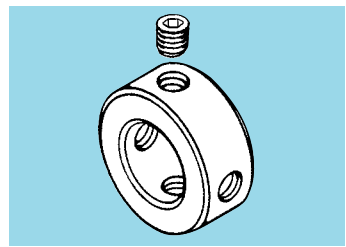
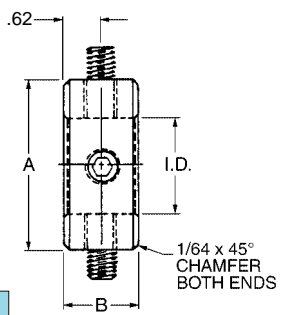
I.D. Tolerances	
Precision	+0.001 -0.000
Commercial	+0.002 -0.000

NOTE: #2-56 Stainless Steel Socket Head Cap Screws Supplied

Catalog Number		Shaft Size	I.D.	A	B	C	Type of Balance	Clearance Radius
Precision	Commercial							
S3400Y-C240-3	S3400Y-J240-3	1/8	.188	23/32	5/a16		Dynamically Balanced	23/64
S3400Y-C240-4	S3400Y-J240-4	3/16	.250	3/4	3/8	.240		3/8
S3400Y-C240-5	S3400Y-J240-5	1/4	.312	7/8	7/16			7/16
S3400Y-C241-3	S3400Y-J241-3	1/8	.188	23/32	5/16		As Machined	23/64
S3400Y-C241-4	S3400Y-J241-4	3/16	.250	3/4	3/8	.240		3/8
S3400Y-C241-5	S3400Y-J241-5	1/4	.312	7/8	7/16			7/16

S INCH Precision Screw-Type Gear Clamps – Miniature

■ 1/16 SHAFT

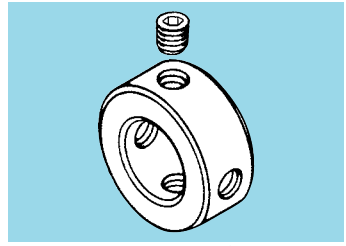
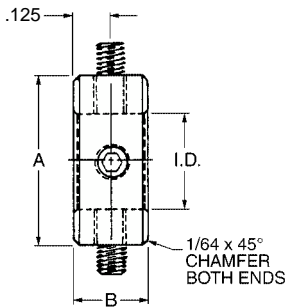


Tolerances	
Decimals	± .005

NOTE: Recommended for use with S9490A-T700 Differential. Four Stainless Steel Socket Head Set Screws Supplied.

Catalog Number	I.D.	A	B	Screw Size
303 Stainless Steel	+ .001 - .000			
S3600Y-C131	.0995	.312	.125	#2-56

S INCH Precision Screw-Type Gear Clamps



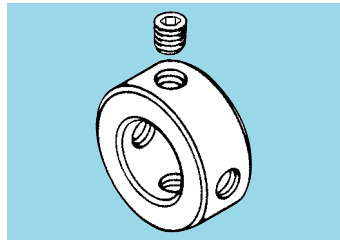
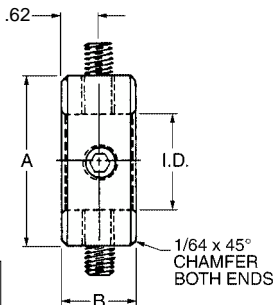
Tolerances	
Decimals	± .005

NOTE: Four Stainless Steel Socket Head Set Screws Supplied.

Catalog Number		I.D.	A	B	Screw Size
303 Stainless Steel	2024-T351 Aluminum Anodized	+ .001 - .000			
S3600Y-C123	S3600Y-C127	.1255	.375	.250	#4-40
S3600Y-C124	S3600Y-C128	.1880			
S3600Y-C125	S3600Y-C129	.2505	.500	.250	#6-32
S3600Y-C126	S3600Y-C130	.3130			

S INCH Commercial Screw-Type Gear Clamps – Miniature

■ 1/16 SHAFT

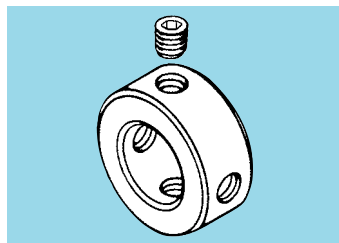
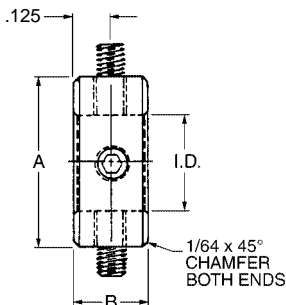


Tolerances	
Decimals	± .010

NOTE: Four Stainless Steel Socket Head Set Screws Supplied

Catalog Number	I.D. +.002 -.000	A	B	Screw Size
303 Stainless Steel				
S3600Y-J131	.0995	.312	.125	#2-56

S INCH Commercial Screw-Type Gear Clamps



Tolerances	
Decimals	± .010

NOTE: Four Stainless Steel Socket Head Set Screws Supplied.

Catalog Number		I.D. +.002 -.000	A	B	Screw Size
303 Stainless Steel	2024-T351 Aluminum				
S3600Y-J123	S3600Y-J127	.1255	.375	.250	#4-40
S3600Y-J124	S3600Y-J128	.1880			
S3600Y-J125	S3600Y-J129	.2505	.500	.250	#6-32
S3600Y-J126	S3600Y-J130	.3130			