

Handbook of Fairloc® Components

— The Integral Fastener

Catalog D243

www.sdp-si.com

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Stock Drive Products / Sterling Instrument

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Couplings**MATERIAL:**

Brass Hubs, Phosphor
Bronze Bellows
and Stainless
Steel Socket
Head Screws



INCH pg. 14
METRIC pg. 15

MATERIAL:

Stainless Steel Hubs with
Molded Neoprene Center



INCH pg. 16
METRIC pg. 17

INCH pg. 18
METRIC pg. 19

MATERIAL:

Stainless
Steel



INCH pg. 20
METRIC pg. 21

Shaft Accessories**MATERIAL:**

Stainless
Steel



INCH pg. 22
METRIC pg. 23

MATERIAL:

Brass and
Stainless
Steel

INCH pg. 24
METRIC pg. 25

**Timing Belt Pulleys****MATERIAL:**

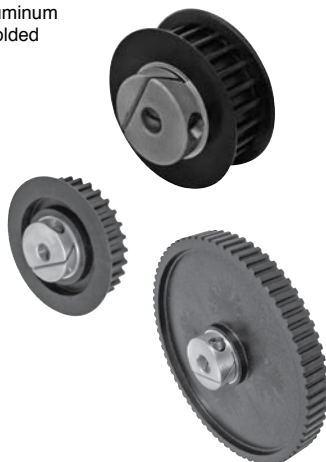
Aluminum



Pitch	Inch	Metric
MXL (.080" / 2.08 mm)	26	27
3 mm HTD	28	29
2 mm GT®2	30	31
3 mm GT®2	32	33

MATERIAL:

Polycarbonate
with Aluminum
Overmolded
Hub



Pitch	Inch	Metric
XL (1/5" / 5.08 mm)	34, 36	35, 37
5 mm HTD	38, 40	39, 41

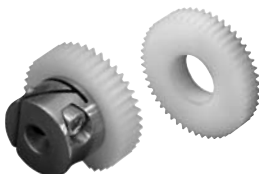
Gears

MATERIAL: Stainless Steel



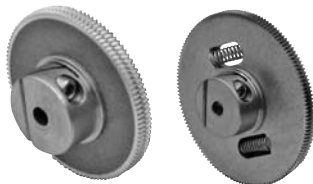
INCH pgs. 42-44
METRIC pgs. 45-47

MATERIAL: Acetal with Stainless Steel Hub



INCH pgs. 48-52
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MATERIAL: Stainless Steel or Aluminum with Stainless Steel Hub



Mini-Lash

INCH pgs. 58-59,
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Anti-Backlash

INCH pgs. 60,
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Fairloc Hubs Preassembled

INCH



HUB - pg. 68

COMPONENTS TO ASSEMBLE



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METRIC



HUB - pg. 88

COMPONENTS TO ASSEMBLE



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pg. 92, 94



pg. 95



pg. 93-94

Domestic Sales Conditions

Ordering by phone: Telephone: (516) 328-3300

We can give you price and stock status on every catalog item over the phone.
For larger production quantities, we can fax you a written quote of price and delivery.
Please call us between 9AM and 5PM New York time or fax or e-mail us anytime. If you prefer, you can contact one of our sales representatives listed on the following pages.

Ordering online: www.sdp-si.com

To get to the Online Shopping eStore, simply click on the shopping cart.

Ordering by fax: Toll-Free Fax: 1 (800) 345-1144 (for orders only)

Please use our toll-free fax number to order.
Specify part numbers, quantities, delivery dates needed and method of shipment.

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\$75 with a \$10 charge for our standard export handling; i.e., \$85 minimum billing.
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Large quantity order:

Considerable discounts are made available for large quantity orders.
Please request a quote for price and delivery.

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If you have an open account, we will ship and bill you, net 30 days,
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Method of Shipment:

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All returns and exchanges must have prior written approval. Returns must be made within 15 days after receipt of material. Returned merchandise will be inspected and a charge made for restocking. No credit will be allowed on used or modified parts, or catalog parts purchased on a quantity basis. Notification of any shortages must be reported within 10 days after receipt of goods.

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A 6D51-...DF...	30	S1288Z-072D...	48	S50FLR-...	18
A 6D51-...NF...	30	S12A05M...	89	S50FLRM...	19
A 6D51M-...DF...	31	S12A08M...	90	S50FLS-...	18
A 6D51M-...NF...	31	S12A10M...	91	S50FLSM...	19
A 6D53-...DF...	32	S12BM1M...	92	S50FP9-FBC...	14
A 6D53-...NF...	32	S12M05M...	53	S50FP9MFBC...	15
A 6D53M-...DF...	33	S12M08M...	54	S50FSR-...	16
A 6D53M-...NF...	33	S12M10M...	56	S50FSRM...	17
A 6H 3-...DF...	34	S12S05M...	89	S50FSS-...	16
A 6H 3-...NF...	36	S12S08M...	90	S50FSSM...	17
A 6H 3-...SF...	36	S12S10M...	91	S5189Y-GB-..	84
A 6H 3M-...DF...	35	S1A5..A-F048...	66	S5189Y-GD-..	83
A 6H 3M-...NF...	37	S1A5..A-F064...	65	S51BM1M...	93
A 6H 3M-...SF...	37	S1A5..A-F072...	63	S51BM2M...	94
A 6H25-...DF...	38	S1A5..A-F096...	60	S51FCZ-...	20
A 6H25-...SF...	40	S1M5..A-F064...	64	S51FCZM...	21
A 6H25M-...DF...	39	S1M5..A-F072...	62	S52FCY-...	22
A 6H25M-...SF...	41	S1M5..A-F080...	61	S52FCYM...	23
S1228Y-GA-..	82	S1M5..A-F096...	59	S9909Y-GH-..	86
S1228Y-GC-..	83	S1M5..A-F120...	58	S9909YM...	95
S1268Z-024A...	76	S1V84Z-024DS...	52	S9922Y-GJ-..	85
S1268Z-024M...	81	S1V84Z-032DS...	51	S9922YM...	95
S1268Z-024S...	76	S1V84Z-048DS...	50		
S1268Z-032A...	75	S1V84Z-064DS...	49		
S1268Z-032M...	80	S1V84Z-072DS...	48		
S1268Z-032S...	75	S1V86Z-024DS...	52		
S1268Z-048A...	74	S1V86Z-032DS...	51		
S1268Z-048M...	79	S1V86Z-048DS...	50		
S1268Z-048S...	74	S1V86Z-064DS...	49		
S1268Z-064A...	73	S1V86Z-072DS...	48		
S1268Z-064M...	78	S1VS05M...	45		
S1268Z-064S...	73	S1VS08M...	46		
S1268Z-072A...	72	S1VS10M...	47		
S1268Z-072M...	77	S1VS24-...	44		
S1268Z-072S...	72	S1VS32-...	43		
S1268Z-080A...	71	S1VS48-...	42		
S1268Z-080S...	71	S1VZ05M...	53		
S1268Z-096A...	70	S1VZ08M...	54		
S1268Z-096S...	70	S1VZ10M...	56		

Fairloc® is a patented component fastening system that is built into the hub of the part. How it works is explained on **page 67**.

The relationship between the clamp screw fastening torque and the torque at which the component starts to slip on the shaft is shown in the charts. These are typical values for stainless steel gears mounted on stainless steel shafts.

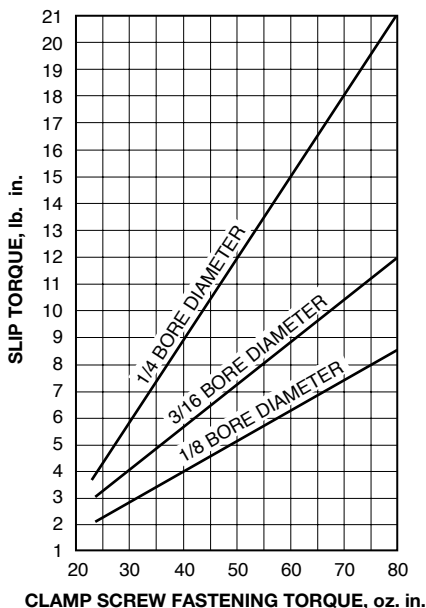


Figure 1

INCH BORE TORQUE DATA

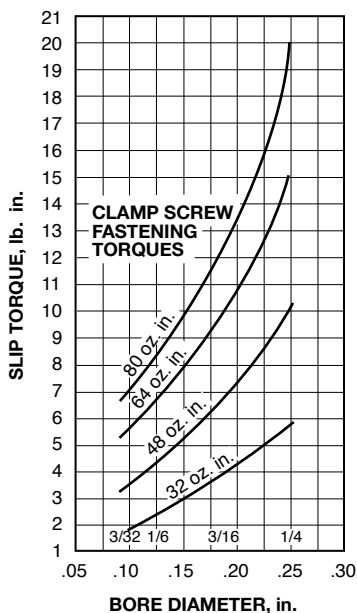


Figure 2

Figure 1 shows the torque at which the sample Fairloc® gears started to slip on the shaft. All gears and shafts were made of 303 Stainless Steel. Gear bores were within +.0003 inch of nominal values. Shafts had surface finishes of 16 micro-inch maximum and were within -.0002 inch of the nominal diameters.

Figure 2 compares the slip torques for different values of the clamping screw fastening torques.

For best results, the space between the component bore and shaft O.D. should be controlled closely. In addition, lubricating the clamping screw with molybdenum disulfide grease will improve the clamping action.

Caution: Do not tighten screws without shaft in the bore. Doing so will create a permanent set of wedge section which will prevent the shaft from going in.



METRIC BORE TORQUE DATA

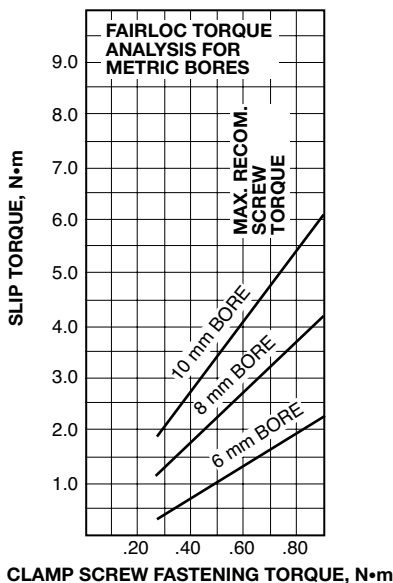


Figure 3

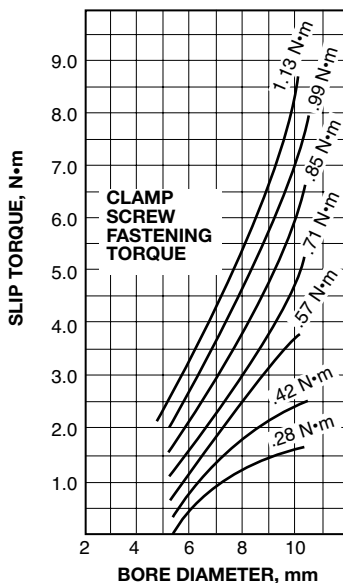
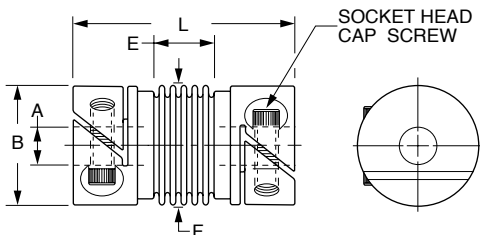


Figure 4

Figure 3 shows the torque at which the sample Fairloc® gears started to slip on the shaft. All gears and shafts were made of 303 Stainless Steel. Gear bores were within +0.0075 mm of nominal values. Shafts had surface finishes of 0.4 μm maximum and were within -0.005 mm of the nominal diameters.

Figure 4 compares the slip torques for different values of the clamping screw fastening torques.

■ EASY INSTALLATION**■ READILY REPOSITIONED****FEATURES:**

- Absorbs end play in shafts
- Allows looser tolerances in mounting components
- Corrects for angular and parallel axis misalignment
- Zero backlash
- Constant angular velocity
- Dampens vibration and noise
- Fairloc® eliminates marred shafts

MATERIAL: Hubs – Brass

Bellows – Phosphor Bronze

Socket Head Screws – 300 Series Stainless Steel

Finish – Tin Plate

Catalog Number	A Bore Typical +.001 -.000	F Bellows Diameter ± .015	E Ref. Active Bellows Length ± .015	B Hub Diameter ± .010	L Overall Length ± .06	Screw Size
S50FP9-FBC12015	.1200			.433		
S50FP9-FBC12515	.1250	15/32	.242	.433	.92	#2-56
S50FP9-FBC18715	.1875			.495		
S50FP9-FBC18715A	.1878 / .1873	15/32	.230	.562	1.00	#4-40
S50FP9-FBC25021	.2500			.610		
S50FP9-FBC31221	.3125	21/32	.325	.682	1.16	#4-40
S50FP9-FBC37527	.3750	27/32	.352	.870	1.31	#6-32

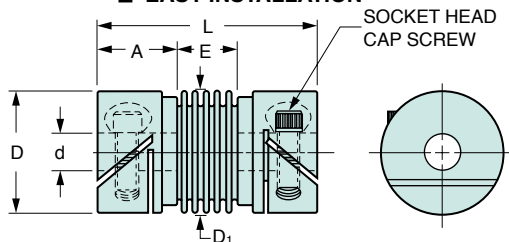
SPECIFICATIONS

Catalog Number	Max. Torque oz. in.	Max. Angular Offset	Max. Lateral Offset	Max. Axial Motion	Torsional Deflection @ Max. Load
S50FP9-FBC12015	120				1.2°
S50FP9-FBC12515	120	5°	.015	+.015, -.030	1.2°
S50FP9-FBC18715	150				1.5°
S50FP9-FBC18715A	180	4°	.010	+.012, -.024	.8°
S50FP9-FBC25021					
S50FP9-FBC31221	200	6°	.015	+.020, -.040	1.4°
S50FP9-FBC37527	300	6°	.015	+.025, -.050	1.5°

NOTE: Fairloc® hubs require controlled shaft tolerances.

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

EASY INSTALLATION



The projections shown are per ISO convention.

MISALIGNMENT COMPENSATION

Max. Lateral Offset – 0.4

MATERIAL: Hubs – Brass

Bellows – Phosphor Bronze

Socket Head Screws – 300 Series Stainless Steel

Finish – Tin Plate

READILY REPOSITIONED



FEATURES:

- Absorbs end play in shafts
- Allows looser tolerances in mounting components
- Corrects for angular and parallel axis misalignment
- Zero backlash
- Constant angular velocity
- Dampens vibration and noise
- Fairloc® eliminates marred shafts

Catalog Number	d* Bore H8	D ₁ Bellows Diameter ± 0.4	E Active Bellows Length Ref.	D Hub Diameter ± 0.25	A Hub Length	L Overall Length ± 1.5	Screw Size
S50FP9MFBC0312	3			11			
S50FP9MFBC0412	4	11.9	6.4	12.5	8.5	23.4	M2
S50FP9MFBC0517	5			16			
S50FP9MFBC0617	6	16.7	8.5		10.5	29.5	M2.5
S50FP9MFBC0821	8			22			
S50FP9MFBC1021	10	21.4	9.3	25	12	33.3	M3
S50FP9MFBC1221	12			25			

SPECIFICATIONS

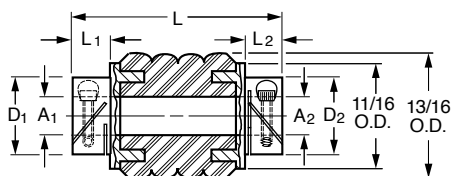
Catalog Number	Maximum Torque N • m	Maximum Angular Offset	Maximum Axial Motion	Spring Rate For Axial Deflection N/mm	Torsional Deflection @ Max. Load Degrees
S50FP9MFBC0312					
S50FP9MFBC0412	0.85	5°	+0.38, -0.75	25.4	1.2°
S50FP9MFBC0517					
S50FP9MFBC0617	1.4	6°	+0.5, -1	24.2	1.4°
S50FP9MFBC0821					
S50FP9MFBC1021	2.12	6°	+0.65, -1.25	24.2	1.5°
S50FP9MFBC1221					

*Bore Tolerance:
 3 mm +0.014
 4, 5 & 6 mm +0.018
 8 & 10 mm +0.022
 12 mm +0.027

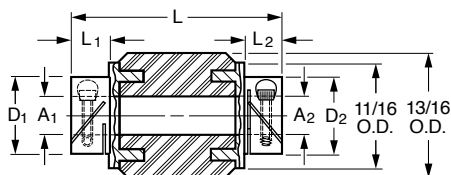
NOTE: Fairloc® hubs require controlled shaft tolerances.
 Suggested tolerance according to g6, h6 or h7.

- MOLDED NEOPRENE CENTER
- TORSIONAL VIBRATION ISOLATION

- SHAFT-TO-SHAFT INSULATION
- FAIRLOC® TYPE HUBS



RIBBED STYLE



SMOOTH STYLE



MISALIGNMENT COMPENSATION

	Ribbed Style	Smooth Style
Max. Angular Offset	1°	1°
Max. Lateral Offset	.015	.005

Bore Size	Max. Torque oz. in.
.1200	100
.1250	120
.1875	150
.2500	180

MATERIAL: Hubs – 303 Stainless Steel

Center – Molded Neoprene, Durometer 73

Catalog Number		A ₁ Bore +.001 -.000	A ₂ Bore +.001 -.000	D ₁ Hub Dia.	D ₂ Hub Dia.	L ₁ Hub Length	L ₂ Hub Length	L Overall Length ± 1/64	Cap Screw
Ribbed Style	Smooth Style								
S50FSR-0303	S50FSS-0303	.1200	.1200	.440	.440	.257	.257	1.264	#2-56
S50FSR-0304	S50FSS-0304		.1250						
S50FSR-0404	S50FSS-0404		.1250		.440		.257	1.264	#2-56
S50FSR-0406	S50FSS-0406	.1250	.1875	.440	.495	.257	.257	1.264	#2-56
S50FSR-0408	S50FSS-0408		.2500		.610		.295	1.302	#2-56 / #4-40
S50FSR-0606	S50FSS-0606		.1875		.495	.257	.257	1.264	#2-56
S50FSR-0608	S50FSS-0608	.1875	.2500	.495	.610		.295	1.302	#2-56 / #4-40
S50FSR-0808	S50FSS-0808	.2500	.2500	.610	.610	.295	.295	1.330	#4-40

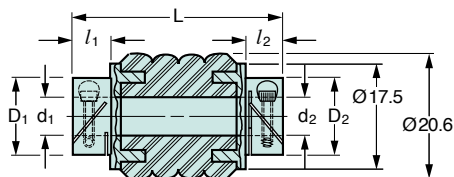
NOTE: Fairloc® hubs require controlled shaft tolerances.

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

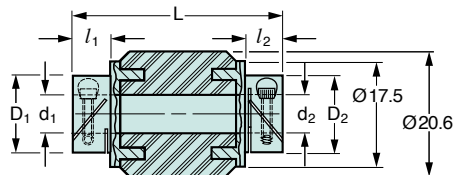
Other bore sizes and combinations available on special order.

- MOLDED NEOPRENE CENTER
- TORSIONAL VIBRATION ISOLATION

- SHAFT-TO-SHAFT INSULATION
- FAIRLOC® TYPE HUBS



RIBBED STYLE



SMOOTH STYLE



MISALIGNMENT COMPENSATION

	Ribbed Style	Smooth Style
Max. Angular Offset	1°	1°
Max. Lateral Offset	0.38	0.13

Bore Size	Max. Torque N • m
3	0.71
4	0.85
5	1.06
6	1.27

MATERIAL: Hubs – 303 Stainless Steel

Center – Molded Neoprene, Durometer 73

Catalog Number		d ₁ Bore +0.025	d ₂ Bore +0.025	D ₁ Hub Dia.	D ₂ Hub Dia.	l ₁ Hub Length	l ₂ Hub Length	L Overall Length ± 0.8	Cap Screw
Ribbed Style	Smooth Style								
S50FSRM0303	S50FSSM0303	3	3	11	11	7	7	33.1	M2
S50FSRM0304	S50FSSM0304		4		12.5		7	33.1	M2
S50FSRM0305	S50FSSM0305		5		16		7.5	33.6	M2/M2.5
S50FSRM0306	S50FSSM0306		6		16		7.5	33.6	M2/M2.5
S50FSRM0404	S50FSSM0404	4	4	12.5	12.5	7	7	33.1	M2
S50FSRM0405	S50FSSM0405		5		16		7.5	33.6	M2/M2.5
S50FSRM0406	S50FSSM0406		6		16		7.5	33.6	M2/M2.5
S50FSRM0505	S50FSSM0505	5	5	16	16	7.5	7.5	34.1	M2.5
S50FSRM0506	S50FSSM0506		6		16		7.5	34.1	M2.5
S50FSRM0606	S50FSSM0606	6	6	16	16	7.5	7.5	34.1	M2.5

NOTE: Fairloc® hubs require controlled shaft tolerances.

Suggested tolerance according to g6, h6 or h7.

Other bore sizes and combinations available on special order.

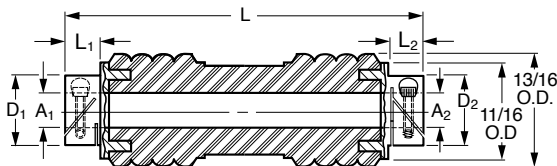
Fairloc® Neo-Flex Couplings - Long

■ MOLDED NEOPRENE CENTER

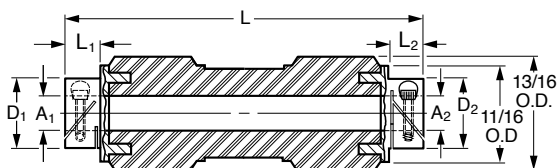
■ TORSIONAL VIBRATION ISOLATION

■ SHAFT-TO-SHAFT INSULATION

■ FAIRLOC® TYPE HUBS



Ribbed Style



Smooth Style



MISALIGNMENT COMPENSATION

	Ribbed Style	Smooth Style
Max. Angular Offset	15°	8°
Max. Lateral Offset	.015	.010

Bore Size	Max. Torque oz. in.
.1200	100
.1250	120
.1875	150
.2500	180

MATERIAL: Hubs – 303 Stainless Steel

Center – Molded Neoprene, Durometer 73

Catalog Number		A ₁ Bore +.001 -.000	A ₂ Bore +.001 -.000	D ₁ Hub Dia.	D ₂ Hub Dia.	L ₁ Hub Length	L ₂ Hub Length	L Overall Length ± 1/64	Cap Screw
Ribbed Style	Smooth Style								
S50FLR-0303	S50FLS-0303	.1200	.1200	.440	.440	.257	.257	2.574	#2-56
S50FLR-0304	S50FLS-0304	.1200	.1250	.440	.440	.257	.257	2.574	#2-56
S50FLR-0404	S50FLS-0404	.1250	.1250	.440	.440	.257	.257	2.574	#2-56
S50FLR-0406	S50FLS-0406	.1250	.1875	.440	.495	.257	.257	2.574	#2-56
S50FLR-0408	S50FLS-0408	.1250	.2500	.440	.610	.257	.295	2.612	#2-56 / #4-40
S50FLR-0606	S50FLS-0606	.1875	.1875	.495	.495	.257	.257	2.574	#2-56
S50FLR-0608	S50FLS-0608	.1875	.2500	.495	.610	.257	.295	2.612	#2-56 / #4-40
S50FLR-0808	S50FLS-0808	.2500	.2500	.610	.610	.295	.295	2.65	#4-40

NOTE: Fairloc® hubs require controlled shaft tolerances.

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

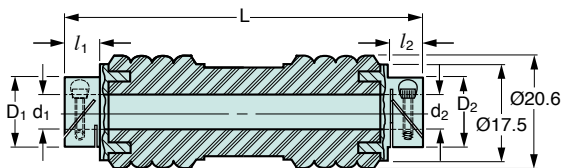
Other bore sizes and combinations available on special order.

■ MOLDED NEOPRENE CENTER

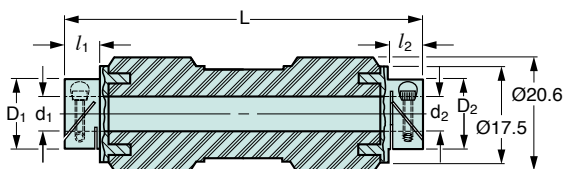
■ TORSIONAL VIBRATION ISOLATION

■ SHAFT-TO-SHAFT INSULATION

■ FAIRLOC® TYPE HUBS



Ribbed Style



Smooth Style



MISALIGNMENT COMPENSATION

	Ribbed Style	Smooth Style
Max. Angular Offset	15°	8°
Max. Lateral Offset	0.38	0.25

Bore Size	Max. Torque N • m
3	0.71
4	0.85
5	1.06
6	1.27

MATERIAL: Hubs – 303 Stainless Steel

Center – Molded Neoprene, Durometer 73

Catalog Number		d ₁ Bore +0.025	d ₂ Bore +0.025	D ₁ Hub Dia.	D ₂ Hub Dia.	l ₁ Hub Length	l ₂ Hub Length	L Overall Length ± 0.8	Cap Screw
Ribbed Style	Smooth Style								
S50FLRM0303	S50FLSM0303	3	3	11	11	7	7	66.3	M2
S50FLRM0304	S50FLSM0304		4		12.5		7	66.3	M2
S50FLRM0305	S50FLSM0305		5		16		7.5	66.8	M2/M2.5
S50FLRM0306	S50FLSM0306		6		16		7.5	66.8	M2/M2.5
S50FLRM0404	S50FLSM0404	4	4	12.5	12.5	7	7	66.3	M2
S50FLRM0405	S50FLSM0405		5		16		7.5	66.8	M2/M2.5
S50FLRM0406	S50FLSM0406		6		16		7.5	66.8	M2/M2.5
S50FLRM0505	S50FLSM0505	5	5	16	16	7.5	7.5	67.3	M2.5
S50FLRM0506	S50FLSM0506		6		16		7.5	67.3	M2.5
S50FLRM0606	S50FLSM0606	6	6	16	16	7.5	7.5	67.3	M2.5

NOTE: Fairloc® hubs require controlled shaft tolerances.

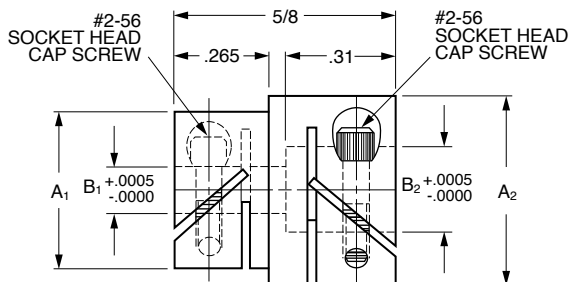
Suggested tolerance according to g6, h6 or h7.

Other bore sizes and combinations available on special order.

■ NONMARRING

■ ADJUSTABLE

■ RIGID



S Precision Component

MATERIAL: 303 Stainless Steel

Catalog Number	B ₁ Bore	A ₁	Clear. Radius	B ₂ Bore	A ₂	Clear. Radius		
S51FCZ-090120	.0900	.437	.273	.1200	.437	.273		
S51FCZ-090125				.1248				
S51FCZ-090187				.1873				
S51FCZ-090250	.2498			.530	.304			
S51FCZ-094125	.0937			.1248	.437	.273		
S51FCZ-094187				.1873				
S51FCZ-094250				.2498			.530	.304
S51FCZ-120120	.1200			.1200	.437	.273		
S51FCZ-120125				.1248				
S51FCZ-120187				.1873				
S51FCZ-120241				.2405			.530	.304
S51FCZ-120250	.2498							
S51FCZ-125125	.1248			.1248	.437	.273		
S51FCZ-125187				.1873				
S51FCZ-125241				.2405			.530	.304
S51FCZ-125250				.2498				
S51FCZ-187187	.1873			.1873	.437	.273		
S51FCZ-187241				.2405			.530	.304
S51FCZ-187250				.2498				
S51FCZ-250250		.2498	.530	.304			.2498	.530

NOTES: 1. B₁ & B₂ concentric within .001 T.I.R.

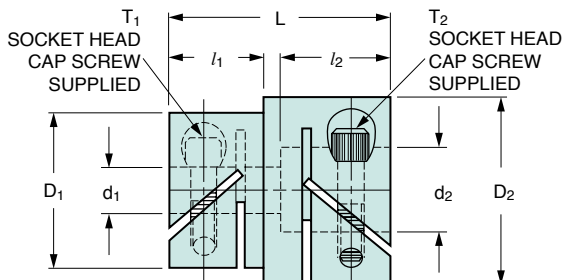
2. Fairloc® hubs require controlled shaft tolerances. Suggested clearance fit between the bore and shaft is .0001/.0008.

Other sizes, material available on special order.

■ NONMARRING

■ ADJUSTABLE

■ RIGID



S Precision Component

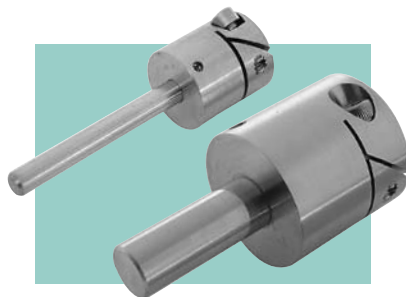
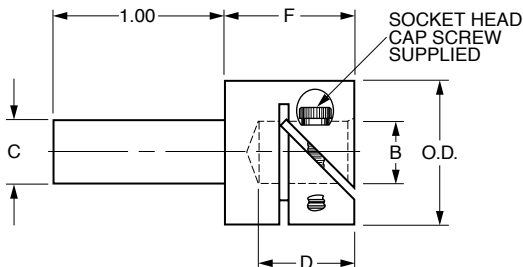
MATERIAL: 303 Stainless Steel

Catalog Number	d ₁ [*] H7	d ₂ [*] H7	D ₁	D ₂	L	l ₁	l ₂	T ₁	T ₂	Max. Clear. Radius	Max. Torque N·m
S51FCZM025030	2.5	3	11	11	19	—	9	M2	M2	6.4	0.4
S51FCZM025040		4		14	19	8	9	M2	M2.5	8.3	
S51FCZM025050		5		17	21	8	11	M2	M3	11.3	
S51FCZM030030	3	3	11	11	19	—	—	M2	M2	6.4	0.45
S51FCZM030040		4		14	19	8	9	M2	M2.5	8.3	
S51FCZM030050		5		17	21	8	11	M2	M3	11.3	
S51FCZM030060	4	6	14	14	19	—	9	M2.5	M2.5	8.3	0.57
S51FCZM040040		5		17	21	8	11	M2.5	M3	11.3	
S51FCZM040050		6		24	25	8	15	M2.5	M4	14	
S51FCZM040060	5	8	14	14	19	—	—	M2.5	M2.5	8.3	0.9
S51FCZM040080		5		17	21	8	11	M2.5	M3	11.3	
S51FCZM050050		6		24	25	8	15	M2.5	M4	14	
S51FCZM050060	6	8	17	17	23	—	—	M3	M3	11.3	1.3
S51FCZM050080		10		24	27	10	15	M3	M4	14	
S51FCZM050100		12		26	30	10	18	M3	M4	15.1	
S51FCZM060060	8	8	17	17	23	—	—	M3	M3	11.3	2.6
S51FCZM060080		10		24	27	10	15	M3	M4	14	
S51FCZM060100		12		26	30	10	18	M3	M4	15.1	
S51FCZM080080	10	10	24	24	35	—	—	M4	M4	14	3.5
S51FCZM080100		12		26	38	—	—	M4	M4	15.1	
S51FCZM080120		12		26	38	—	—	M4	M4	15.1	
S51FCZM100100	12	10	26	24	35	—	—	M4	M4	14	5.1
S51FCZM100120		12		26	38	—	—	M4	M4	15.1	
S51FCZM120120		12		26	38	—	—	M4	M4	15.1	

*Bore Tolerance: 2.5 & 3 mm + 0.01
4, 5 & 6 mm + 0.012
8 & 10 mm + 0.015
12 mm + 0.018

NOTES: 1. d₁ and d₂ bores concentric to within 0.025 mm T.I.R.
2. Fairloc® hubs require controlled shaft tolerances. Suggested tolerance according to g6, h6 or h7.

Other sizes and material available on special order.

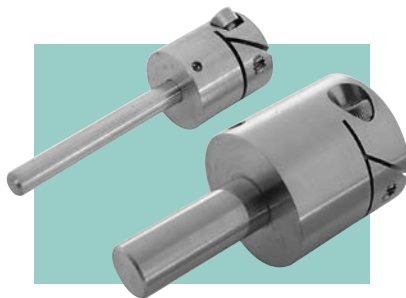
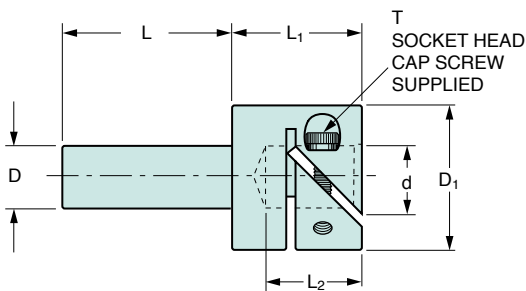


MATERIAL: 303 Stainless Steel

Catalog Number	Shaft Size		O.D.	B Bore +.0005 -.0000	C Diameter +.0000 -.0002	D	F	Screw Size	Clear. Radius
	Female	Male							
S52FCY-120125 S52FCY-120187	.120	1/8 3/16	.437	.1200	.1247 .1872	.375	1/2	#2-56	.273
S52FCY-125125 S52FCY-125187 S52FCY-125250	1/8	1/8 3/16 1/4		.1248	.1247 .1872 .2497				
S52FCY-187125 S52FCY-187187 S52FCY-187250	3/16	1/8 3/16 1/4		.1873	.1247 .1872 .2497				
S52FCY-241187 S52FCY-241250 S52FCY-241375	.2405	3/16 1/4 3/8	.530	.2405	.1872 .2497 .3747	.375	1/2	#2-56	.315
S52FCY-250125 S52FCY-250187 S52FCY-250250 S52FCY-250375	1/4	1/8 3/16 1/4 3/8		.2498	.1247 .1872 .2497 .3747				
S52FCY-375250 S52FCY-375375 S52FCY-375500	3/8	1/4 3/8 1/2		.3748	.2497 .3747 .4997	.563	3/4	#6-32	.495
S52FCY-500375 S52FCY-500500	1/2	3/8 1/2	1.000	.4998	.3747 .4997	.750	1		.552

NOTES: 1. B and C dimensions concentric to within .001 T.I.R.

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



MATERIAL: 303 Stainless Steel

Catalog Number	d* H7	D** g6	D ₁	L	L ₁	L ₂	T	Clear. Radius	Max. Torque N·m
S52FCYM030030 S52FCYM030040 S52FCYM030050	3	3 4 5	11	25	15	9	M2	6.4	0.45
S52FCYM040030 S52FCYM040040 S52FCYM040050	4	3 4 5	14	25	15	9	M2.5	8.3	0.57
S52FCYM050030 S52FCYM050040 S52FCYM050050 S52FCYM050060	5	3 4 5 6	14	25	15	9	M2.5	8.3	0.9
S52FCYM060040 S52FCYM060050 S52FCYM060060 S52FCYM060080 S52FCYM060100	6	4 5 6 8 10	17	25	18	11	M3	11.3	1.3
S52FCYM080050 S52FCYM080060 S52FCYM080080 S52FCYM080100 S52FCYM080120	8	5 6 8 10 12	17	25	18	11	M3	11.3	2.6
S52FCYM100060 S52FCYM100080 S52FCYM100100 S52FCYM100120	10	6 8 10 12	24	30	23	15	M4	14	3.5
S52FCYM120080 S52FCYM120100 S52FCYM120120	12	8 10 12	26	30	26	18	M4	15.1	5.1

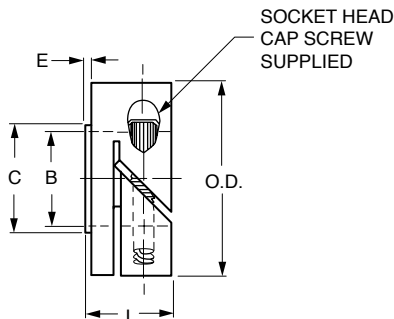
*Bore Tolerance (H7): 3 mm + 0.01
4, 5 & 6 mm + 0.012
8 & 10 mm + 0.015
12 mm + 0.018

**Shaft Tolerance (g6): 3 mm - 0.002/-0.008
4, 5 & 6 mm - 0.004/-0.012
8 & 10 mm - 0.005/-0.014
12 mm - 0.006/-0.017

NOTES: 1. d bores and D shafts concentric to within 0.025 mm T.I.R.

2. Fairloc® hubs require controlled mating shaft tolerances: g6, h6 or h7.

3. Metric to inch or inch to metric connections, other sizes and materials, available on special order.

■ WITH INTEGRAL BEARING SHIM SPACER**FEATURES:**

- No shim spacers required
- Used to preload bearing
- Fairloc® eliminates marred shafts
- More holding strength than set screw collars

MATERIAL: Brass, Black Oxide Finish
303 Stainless Steel

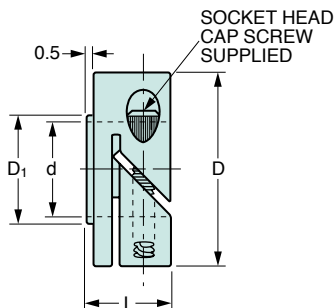
Catalog Number		Shaft Size	O.D.	B Bore +.0010 -.0000	C	E	L	Screw Size
Brass-Black Oxide	303 Stainless Steel							
S25FB9-PC12015	S25FY9-PC12015	.12	.433	.1200	.189			
S25FB9-PC12515	S25FY9-PC12515	1/8	.433	.1250	.189	.020	.276	#2-56
S25FB9-PC18715	S25FY9-PC18715	3/16	.495	.1875	.250			
S25FB9-PC25021	S25FY9-PC25021	1/4	.630	.2500	.315		.354	#4-40
S25FB9-PC31227	S25FY9-PC31227	5/16	.870	.3125	.394	.020	.433	#6-32
S25FB9-PC37527	S25FY9-PC37527	3/8	.870	.3750	.438		.433	#6-32
S25FB9-PC50031	S25FY9-PC50031	1/2	.984	.5000	.578	.020	.433	#6-32
S25FB9-PC62537	S25FY9-PC62537	5/8	1.181	.6250	.750	.030	.551	#8-32
S25FB9-PC75047	S25FY9-PC75047	3/4	1.496	.7500	.866	.030	.630	#10-32

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.

■ WITH INTEGRAL BEARING SHIM SPACER



FEATURES:

- No shim spacers required
- Used to preload bearing
- Fairloc® eliminates marred shafts
- More holding strength than set screw collars

MATERIAL: Brass, Black Oxide Finish
303 Stainless Steel

Catalog Number		Shaft Size	d* H8	D	L	D ₁	Screw Size
Brass – Black Oxide	303 Stainless Steel						
S25FB9MPC0311	S25FY9MPC0311	3	3	11	7	5	M2
S25FB9MPC0412	S25FY9MPC0412	4	4	12.5	7	6	M2
S25FB9MPC0516	S25FY9MPC0516	5	5	16	9	7	M2.5
S25FB9MPC0616	S25FY9MPC0616	6	6	16	9	8	M2.5
S25FB9MPC0822	S25FY9MPC0822	8	8	22	11	10	M3
S25FB9MPC1025	S25FY9MPC1025	10	10	25	11	12	M3
S25FB9MPC1225	S25FY9MPC1225	12	12	25	11	14	M3
S25FB9MPC1530	S25FY9MPC1530	15	15	30	14	19	M4
S25FB9MPC2038	S25FY9MPC2038	20	20	38	16	22	M5

*Bore Tolerances:
 3 mm +0.014
 4, 5 & 6 mm +0.018
 8 & 10 mm +0.022
 12 & 15 mm +0.027
 20 mm +0.033

Did You Know?

That Fairloc® is a specially designed hub fastening device that has many unique advantages over set screw or keyway methods? See page 67 for a full explanation.

MXL Timing Belt Pulleys - .080 Pitch

■ ALUMINUM

■ FAIRLOC® HUB

■ DOUBLE OR NO FLANGE

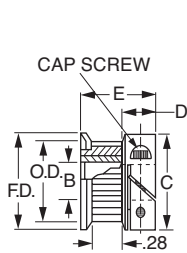


Fig. 1

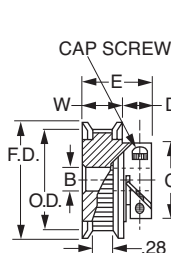


Fig. 2

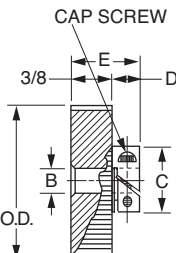
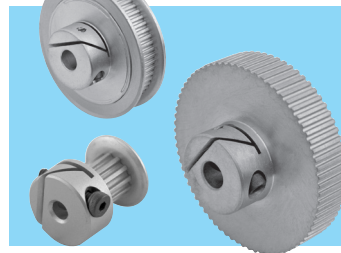


Fig. 3



FOR 1/4" BELTS

MATERIAL: Aluminum Alloy

FINISH: Clear Anodized

Catalog Number	Fig. No.	No. of Grooves	P.D.	O.D.*	F.D. ±1/64	B Bore +.001 - .000	W Body	E Length ±1/64	C Hub Dia. ±1/64	D Hub Proj.	Cap Screw
A 6D16-012DF2504	1	12	.306	.286	.480	.125	—	9/16	.480	15/64	#2-56
A 6D16-015DF2506		15	.382	.362	.555	.1875	—	9/16	.555	15/64	#2-56
A 6D16-016DF2506		16	.407	.387	.580				.580		
A 6D16-018DF2508		18	.458	.438	.635	.250	—	9/16	.625	15/64	#2-56
A 6D16-020DF2508		20	.509	.489	.685						
A 6D16-022DF2508		22	.560	.540	.740						
A 6D16-024DF2508		24	.611	.591	.790						
A 6D16-025DF2508		25	.637	.617	.815						
A 6D16-028DF2508		28	.713	.693	.895						
A 6D16-030DF2508		30	.764	.744	.945						
A 6D16-032DF2508		32	.815	.795	1.000						
A 6D16-036DF2508	2	36	.917	.897	1.105	.250	.389	11/16	.625	19/64	#2-56
A 6D16-040DF2508		40	1.019	.999	1.210						
A 6D16-048DF2508		48	1.222	1.202	1.420						
A 6D16-060DF2508		60	1.528	1.508	1.730						
A 6D16-072NF2508		72	1.833	1.813	—	.250	—	3/4	.750	3/8	#4-40

NOTE: Other sizes available on special order.

*O.D. Tolerance: 12 to 32 grooves is +.002, -.000
36 to 72 grooves is +.003, -.000

■ ALUMINUM

■ FAIRLOC® HUB

■ DOUBLE OR NO FLANGE

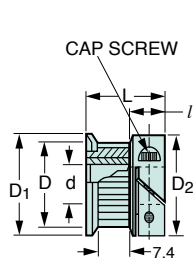


Fig. 1

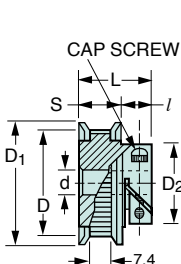


Fig. 2

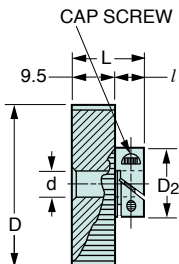
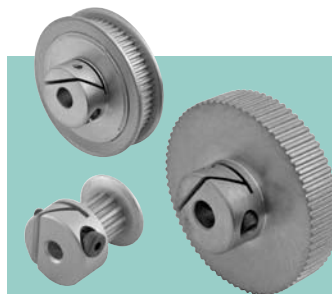


Fig. 3



FOR BELTS UP TO 6 mm WIDE

MATERIAL: Aluminum Alloy

FINISH: Clear Anodized

Catalog Number	Fig. No.	No. of Grooves	P.D.	D +0.08	D ₁ ± 0.4	d Bore +0.025	S Body	L Length ± 0.4	D ₂ Hub Dia. ± 0.4	l Hub Proj.	Cap Screw
A 6D16M012DF6003	1	12	7.8	7.3	12.2	3	—	14.5	12.2	6.2	M2
A 6D16M015DF6005		15	9.7	9.2	14.1	5	—		14.1		
A 6D16M016DF6005		16	10.3	9.8	14.7		—		14.7		
A 6D16M018DF6006	2	18	11.6	11.1	16.1	6	—	14.5	15.9	6.2	
A 6D16M020DF6006		20	12.9	12.4	17.4						
A 6D16M022DF6006		22	14.2	13.7	18.8						
A 6D16M024DF6006		24	15.5	15	20.1		—	17.3	15.9	8.9	
A 6D16M025DF6006		25	16.2	15.7	20.7						
A 6D16M028DF6006		28	18.1	17.6	22.7						
A 6D16M030DF6006		30	19.4	18.9	24		—	17.3	15.9	8.9	
A 6D16M032DF6006		32	20.7	20.2	25.4						
A 6D16M036DF6006		36	23.3	22.8	28.1		9.9	17.5	15.9	7.5	
A 6D16M040DF6006		40	25.9	25.4	30.7						
A 6D16M048DF6006		48	31	30.5	36.1		10.3	18.3	19.1	7.9	
A 6D16M060DF6006		60	38.8	38.3	43.9						
A 6D16M060NF6006	3	60	38.8	38.3	—	6	—	19.1	19.1	9.5	M2.5
A 6D16M072NF6006		72	46.6	46.1							

NOTE: Other sizes available on special order.

■ ALUMINUM

■ **TRUE METRIC®** PROFILE

■ FAIRLOC® HUB

■ DOUBLE FLANGE

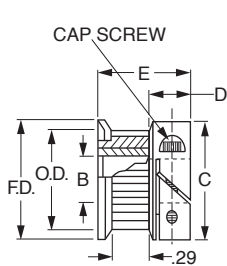


Fig. 1

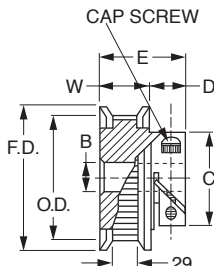
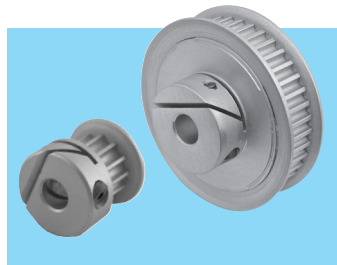


Fig. 2



FOR 6 mm BELTS (.236 INCH)

MATERIAL: Aluminum Alloy

FINISH: Clear Anodized

Catalog Number	Fig. No.	No. of Grooves	P.D.	O.D.*	F.D. ± 1/64	B Bore +.001 -.000	W	E Length ± 1/64	C Hub Dia. ± 1/64	D Hub Proj.	Cap Screw
A 6D23-010DF0604	1	10	.376	.346	.505	.125	—	9/16	.480	15/64	#2-56
A 6D23-012DF0606		12	.451	.421	.580	.1875					
A 6D23-014DF0606		14	.526	.496	.635						
A 6D23-015DF0606		15	.564	.534	.685	.1875	—	9/16	.625	15/64	#2-56
A 6D23-016DF0606		16	.602	.572	.710						
A 6D23-018DF0608		18	.677	.647	.790	.250		11/16	.625	11/32	#2-56
A 6D23-020DF0608		20	.752	.722	.895						
A 6D23-022DF0608		22	.827	.797	.945						
A 6D23-024DF0608	2	24	.902	.872	1.025	.250	.386	11/16	.625	19/64	#2-56
A 6D23-025DF0608		25	.940	.910	1.060						
A 6D23-026DF0608		26	.977	.947	1.105						
A 6D23-030DF0608		30	1.128	1.098	1.250		.386	11/16	.750	19/64	#4-40
A 6D23-032DF0608		32	1.203	1.173	1.323						
A 6D23-034DF0608		34	1.278	1.248	1.398						
A 6D23-036DF0608		36	1.353	1.323	1.473		.407	23/32	.750	5/16	#4-40
A 6D23-040DF0608		40	1.504	1.474	1.625						
A 6D23-044DF0608		44	1.654	1.624	1.775						

*O.D. Tolerance: 10 to 26 grooves is +.002, -.000
30 to 44 grooves is +.003, -.000

■ ALUMINUM

■ **TRUE METRIC®** PROFILE

■ FAIRLOC® HUB

■ DOUBLE FLANGE

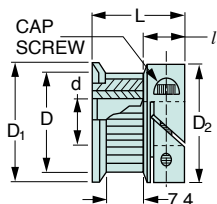


Fig. 1

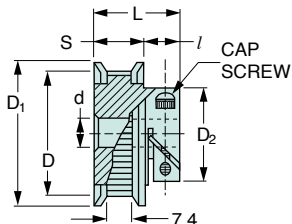
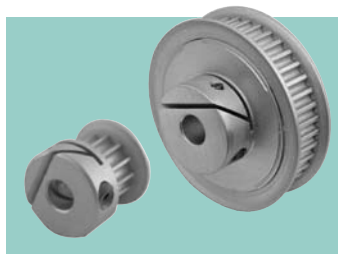


Fig. 2



FOR BELTS UP TO 6 mm WIDE

MATERIAL: Aluminum Alloy

FINISH: Clear Anodized

Catalog Number	Fig. No.	No. of Grooves	P.D.	D +0.05	D ₁ ± 0.4	d Bore +0.025	S Body	L Length ± 0.4	D ₂ Hub Dia. ± 0.4	l Hub Proj.	Cap Screw
A 6D23M010DF0603	1	10	9.6	8.8	12.8	3	—	14.5	12.2	6	M2
A 6D23M012DF0605		12	11.5	10.7	14.7	5			14.7		
A 6D23M014DF0605	2	14	13.4	12.6	16.1	5	—	14.5	15.9	6	M2
A 6D23M015DF0605		15	14.3	13.5	17.4						
A 6D23M016DF0605		16	15.3	14.5	18						
A 6D23M018DF0606		18	17.2	16.4	20						
A 6D23M020DF0606		20	19.1	18.3	22.7	—	17.1	15.9	8.8		
A 6D23M022DF0606		22	21	20.2	24						
A 6D23M024DF0606		24	22.9	22.1	26	6	9.8	17.5	15.9	7.5	M2.5
A 6D23M025DF0606		25	23.9	23.1	26.9						
A 6D23M026DF0606		26	24.8	24	28.1						
A 6D23M030DF0606		30	28.7	27.9	31.8						
A 6D23M032DF0606	32	30.6	29.8	33.6	9.8	17.5	19.1	7.5			
A 6D23M034DF0606	34	32.5	31.7	35.5					10.3	18.3	
A 6D23M036DF0606	36	34.4	33.6	37.4	10.3	18.3	19.1	7.9			
A 6D23M040DF0606	40	38.2	37.4	41.3							
A 6D23M044DF0606	44	42	41.2	45.1							

■ **TRUE METRIC®** PROFILE ■ **FAIRLOC®** HUB ■ **DOUBLE OR NO FLANGE**

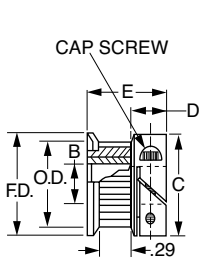


Fig. 1

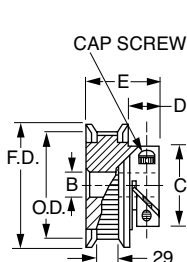


Fig. 2

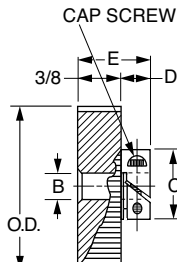
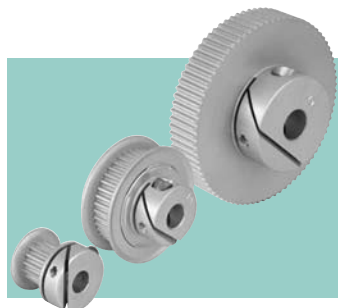


Fig. 3



FOR 6 mm BELTS (.236 INCH)

MATERIAL: Aluminum Alloy

FINISH: Clear Anodized

Catalog Number	Fig. No.	No. of Grooves	P.D.	O.D.*	F.D. ± 1/64	B Bore +.001 -.000	E Length ± 1/64	C Hub Dia. ± 1/64	D Hub Proj.	Cap Screw
A 6D51-015DF0606	1	15	.376	.356	.555	.1875	9/16	.580	15/64	#2-56
A 6D51-016DF0606		16	.401	.381	.580					
A 6D51-018DF0606		18	.451	.431	.625					
A 6D51-020DF0606	2	20	.501	.481	.685	.1875	9/16	.625	15/64	#2-56
A 6D51-022DF0606		22	.551	.531	.740					
A 6D51-024DF0608		24	.602	.582	.790					
A 6D51-025DF0608		25	.627	.607	.815	.250	11/16	.625	19/64	#4-40
A 6D51-028DF0608		28	.702	.682	.895					
A 6D51-030DF0608		30	.752	.732	.945					
A 6D51-032DF0608		32	.802	.782	1.000					
A 6D51-036DF0608		36	.902	.882	1.105	.250	11/16 23/32 23/32	.625	19/64 5/16 5/16	#4-40
A 6D51-040DF0608		40	1.003	.983	1.210					
A 6D51-045DF0608		45	1.128	1.108	1.340					
A 6D51-048DF0608		48	1.203	1.183	1.420					
A 6D51-050DF0608	3	50	1.253	1.233	1.470	—	3/4	.625	5/16	#4-40
A 6D51-060DF0608		60	1.504	1.484	1.730					
A 6D51-060NF0608		60	1.504	1.484	1.730		3/4	.750	3/8	#4-40
A 6D51-072NF0608		72	1.805	1.785	2.050					
A 6D51-080NF0610		80	2.005	1.985	2.3125					
A 6D51-090NF0610		90	2.256	2.236	2.5625					
A 6D51-100NF0610		100	2.506	2.486	2.8125					
A 6D51-120NF0612		120	3.008	2.988	3.375					

NOTE: Other sizes available on special order.

*O.D. Tolerance: 15 to 40 grooves is +.002, -.000.
45 to 80 grooves is +.003, -.000.
90 to 120 grooves is +.004, -.000.

■ ALUMINUM

■ **TRUE METRIC[®]** PROFILE

■ FAIRLOC[®] HUB

■ DOUBLE OR NO FLANGE

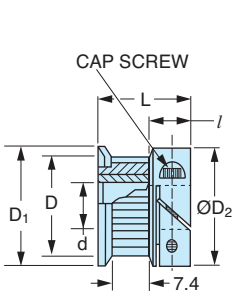


Fig. 1

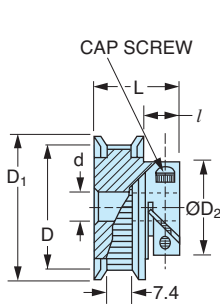


Fig. 2

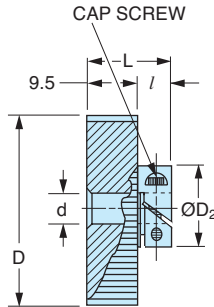
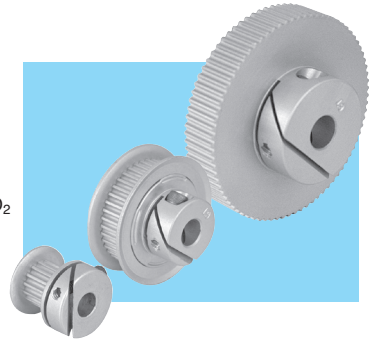


Fig. 3



MATERIAL: Aluminum Alloy
FINISH: Clear Anodized

FOR BELTS UP TO 6 mm WIDE

Catalog Number	Fig. No.	No. of Grooves	P.D.	D*	D ₁ ± 0.4	d Bore +0.025	L Length ± 0.4	D ₂ Hub ± 0.4	l Hub Proj.	Cap Screw	
A 6D51M015DF0605	1	15	9.6	9	14.1	5	14.3	14.7	6	M2	
A 6D51M016DF0605		16	10.2	9.7	14.7			14.7			
A 6D51M018DF0605		18	11.5	11	16.1			15.9			
A 6D51M020DF0605		20	12.7	12.2	17.4	5	14.3	15.9			
A 6D51M022DF0605		22	14	13.5	18.8	5	14.3	6		M2	
A 6D51M024DF0606		24	15.3	14.8	20.1	6	17.5	7.5		M2.5	
A 6D51M025DF0606		25	15.9	15.4	20.7	6	17.5	15.9	7.5	M2.5	
A 6D51M028DF0606		28	17.8	17.3	22.7						
A 6D51M030DF0606		30	19.1	18.6	24						
A 6D51M032DF0606	32	20.4	19.9	25.4							
A 6D51M036DF0606	2	36	23	22.4	28.1	6	17.5	15.9	7.5		
A 6D51M040DF0606		40	25.5	25	30.7		18.3				7.9
A 6D51M045DF0606		45	28.6	28.1	34		18.3				7.9
A 6D51M048DF0606		48	30.6	30	36.1		18.3				15.9
A 6D51M050DF0606		50	31.8	31.3	37.3						
A 6D51M060DF0606		60	38.2	37.7	43.9						
A 6D51M060NF0606	3	60	38.2	37.7	—	6	19.1	19.1	9.5	M2.5	
A 6D51M072NF0606		72	45.9	45.3		6		19.1		M2.5	
A 6D51M080NF0608		80	51	50.4		8		25.4		M3	
A 6D51M090NF0608		90	57.3	56.8		8		25.4		M3	
A 6D51M100NF0608		100	63.7	63.2		8					
A 6D51M120NF0610		120	76.4	75.9		10					

NOTE: Other sizes available on special order.

*D Tolerance: 15 to 40 grooves is + 0.051
45 to 80 grooves is + 0.076
90 to 120 grooves is + 0.102

- **TRUE METRIC®** PROFILE
- **ALUMINUM**
- **FAIRLOC®** HUB
- **DOUBLE OR NO FLANGE**

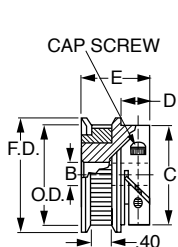


Fig. 1

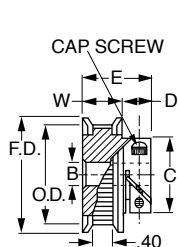


Fig. 2

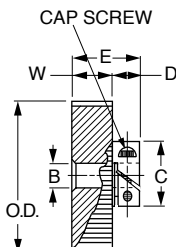
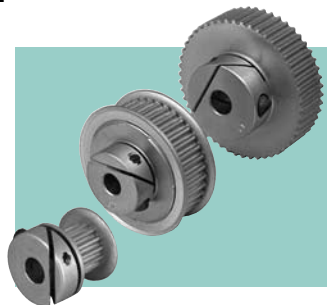


Fig. 3



FOR 9 mm BELTS (.354 INCH)

MATERIAL: Aluminum Alloy

FINISH: Clear Anodized

Catalog Number	Fig. No.	No. of Grooves	P.D.	O.D.*	F.D. ± 1/64	B Bore +.001 -.000	W	E Length ± 1/64	C Hub Dia. ± 1/64	D Hub Proj.	Cap Screw
A 6D53-018DF0908	1	18	.677	.647	.790	.250	—	13/16	3/4	19/64	#6-32
A 6D53-020DF0908		20	.752	.722	.895						
A 6D53-022DF0908		22	.827	.797	.945						
A 6D53-024DF0908		24	.902	.872	1.025		—	13/16	3/4	19/64	#6-32
A 6D53-025DF0908		25	.940	.910	1.060						
A 6D53-026DF0908		26	.977	.947	1.105						
A 6D53-030DF0908	2	30	1.128	1.098	1.250	.250	.506	13/16	3/4	19/64	#6-32
A 6D53-032DF0908		32	1.203	1.173	1.323		.506	13/16			
A 6D53-034DF0908		34	1.278	1.248	1.398		.527	27/32			
A 6D53-036DF0908		36	1.353	1.323	1.473		.527	27/32	3/4	5/16	#6-32
A 6D53-038DF0908		38	1.429	1.399	1.549						
A 6D53-040DF0908		40	1.504	1.474	1.625						
A 6D53-045DF0908		45	1.692	1.662	1.775						
A 6D53-034NF0908	3	34	1.278	1.248	—	.250	.527	27/32	3/4	5/16	#6-32
A 6D53-036NF0908		36	1.353	1.323		.250 .250 .3125	.527	27/32	3/4	5/16	#6-32
A 6D53-038NF0908		38	1.429	1.399			.527	27/32	3/4	5/16	
A 6D53-040NF0908		40	1.504	1.474			.500	7/8	1	3/8	
A 6D53-045NF0910		45	1.692	1.662			.3125	.500	7/8	1	
A 6D53-048NF0910		48	1.805	1.775							
A 6D53-050NF0910		50	1.880	1.850							
A 6D53-056NF0910		56	2.105	2.075							
A 6D53-060NF0910		60	2.256	2.226							
A 6D53-072NF0910		72	2.707	2.677							
A 6D53-080NF0910	80	3.008	2.978								

NOTE: Other sizes available on special order.

*O.D. Tolerance: 18 to 26 grooves is +.002, -.000.
30 to 50 grooves is +.003, -.000.
56 to 80 grooves is +.004, -.000.

■ ALUMINUM

■ **TRUE METRIC®** PROFILE

■ FAIRLOC® HUB

■ DOUBLE OR NO FLANGE

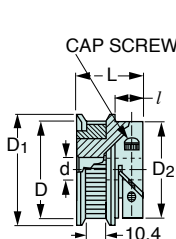


Fig. 1

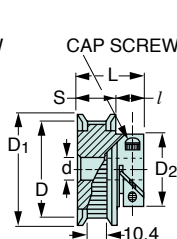


Fig. 2

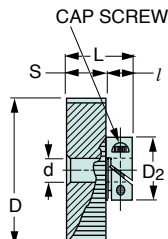
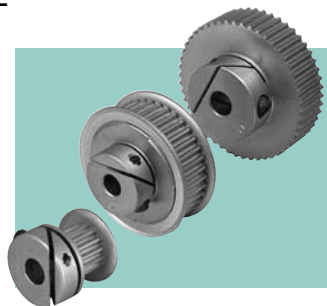


Fig. 3



FOR BELTS UP TO 9 mm WIDE

MATERIAL: Aluminum Alloy

FINISH: Clear Anodized

Catalog Number	Fig. No.	No. of Grooves	P.D.	D*	D ₁ ± 0.4	d Bore +0.025	S Body	L Length ± 0.4	D ₂ Hub Dia. ± 0.4	I Hub Proj.	Cap Screw	
A 6D53M018DF0906	1	18	17.2	16.4	20	6	—	20.5	19.1	7.5	M3	
A 6D53M020DF0906		20	19.1	18.3	22.7							
A 6D53M022DF0906		22	21	20.2	24							
A 6D53M024DF0906		24	22.9	22.1	26		—	20.5		7.5		
A 6D53M025DF0906		25	23.9	23.1	26.9							
A 6D53M026DF0906		26	24.8	24	28.1							
A 6D53M030DF0906	2	30	28.7	27.9	31.8	6	12.9	20.6		7.5		
A 6D53M032DF0906		32	30.6	29.8	33.6		12.9	20.6				
A 6D53M034DF0906		34	32.5	31.7	35.5		13.4	21.4				7.9
A 6D53M036DF0906		36	34.4	33.6	37.4		13.4	21.4				
A 6D53M038DF0906		38	36.3	35.5	39.3							
A 6D53M040DF0906		40	38.2	37.4	41.3							
A 6D53M045DF0906		45	43	42.2	45.1							
A 6D53M034NF0906	3	34	32.5	31.7	—	6	13.4	21.3	19.1	7.9	M3	
A 6D53M036NF0906		36	34.4	33.6								
A 6D53M038NF0906		38	36.3	35.5								
A 6D53M040NF0906		40	38.2	37.4								
A 6D53M045NF0908		45	43	42.2		8	12.7	22.2		25.4		9.5
A 6D53M048NF0908		48	45.8	45								
A 6D53M050NF0908		50	47.8	47								
A 6D53M056NF0908		56	53.5	52.7								
A 6D53M060NF0908		60	57.3	56.5		8	12.7	22.2		25.4		9.5
A 6D53M072NF0908		72	68.8	68								
A 6D53M080NF0908		80	76.4	75.6								

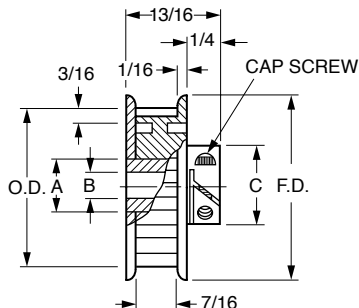
NOTE: Other sizes available on special order.

*D Tolerance: 18 to 26 grooves is + 0.051
30 to 50 grooves is + 0.076
56 to 80 grooves is + 0.102

XL Timing Belt Pulleys - 1/5" Pitch

■ MOLDED WITH FAIRLOC® HUB

■ DOUBLE FLANGE



FOR 3/8" BELTS

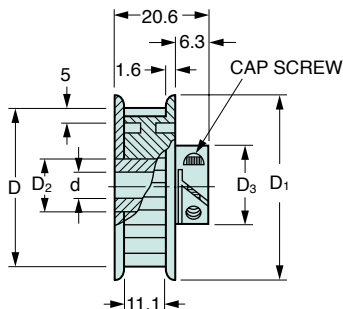
MATERIAL: Pulley – Polycarbonate, Fiberglass Reinforced
Hub – Aluminum Alloy, Overmolded

Catalog Number	No. of Grooves	P.D.	O.D.	F.D.	B Bore +.001 -.000	A Dia.	C Hub Dia.	Cap Screw
A 6H 3-10DF03706	10	.637	.617	.87	.1875	3/8	1/2	#2-56
A 6H 3-11DF03706	11	.700	.680	.93				
A 6H 3-12DF03706	12	.764	.744	.99				
A 6H 3-13DF03706	13	.828	.808	1.06				
A 6H 3-14DF03708	14	.891	.871	1.12		1/2	3/4	#4-40
A 6H 3-15DF03708	15	.955	.935	1.19				
A 6H 3-16DF03708	16	1.019	.999	1.24				
A 6H 3-17DF03708	17	1.082	1.062	1.31				
A 6H 3-18DF03708	18	1.146	1.126	1.38		1/2	3/4	#4-40
A 6H 3-19DF03708	19	1.210	1.190	1.44				
A 6H 3-20DF03708	20	1.273	1.253	1.51				
A 6H 3-21DF03708	21	1.337	1.317	1.57				
A 6H 3-22DF03708	22	1.401	1.381	1.63	.250	1/2	7/8	#4-40
A 6H 3-23DF03708	23	1.464	1.444	1.69				
A 6H 3-24DF03708	24	1.528	1.508	1.76				
A 6H 3-25DF03708	25	1.592	1.572	1.82				
A 6H 3-26DF03708	26	1.655	1.635	1.89		1/2	7/8	#4-40
A 6H 3-27DF03708	27	1.719	1.699	1.95				
A 6H 3-28DF03708	28	1.783	1.763	2.02				
A 6H 3-29DF03708	29	1.846	1.826	2.08				
A 6H 3-30DF03710	30	1.910	1.890	2.14		5/8	7/8	#4-40
A 6H 3-31DF03710	31	1.974	1.954	2.20				
A 6H 3-32DF03710	32	2.037	2.017	2.27				
A 6H 3-34DF03710	34	2.165	2.145	2.40				
A 6H 3-35DF03710	35	2.228	2.208	2.46	.3125	5/8	7/8	#4-40
A 6H 3-36DF03710	36	2.292	2.272	2.53				
A 6H 3-37DF03710	37	2.355	2.335	2.59				
A 6H 3-39DF03710	39	2.483	2.463	2.71				
A 6H 3-40DF03710	40	2.546	2.526	2.78		5/8	7/8	#4-40
A 6H 3-42DF03710	42	2.674	2.654	2.92				
A 6H 3-44DF03710	44	2.801	2.781	3.04				
A 6H 3-48DF03710	48	3.056	3.036	3.29				

NOTE: Pulleys with 10 to 21 grooves do not have webs.

■ MOLDED WITH FAIRLOC® HUB

■ DOUBLE FLANGE



FOR 9.5 mm BELTS

MATERIAL: Pulley – Polycarbonate, Fiberglass Reinforced
Hub – Aluminum Alloy, Overmolded

Catalog Number	No. of Grooves	P.D.	D	D ₁	d* Bore H9	D ₂	D ₃ Hub Dia.	Cap Screw
A 6H 3M10DF09504	10	16.2	15.7	22	4	9.5	13	M2.5
A 6H 3M11DF09504	11	17.8	17.3	24				
A 6H 3M12DF09504	12	19.4	18.9	25				
A 6H 3M13DF09504	13	21	20.5	27				
A 6H 3M14DF09506	14	22.6	22.1	28				
A 6H 3M15DF09506	15	24.3	23.7	30	6	13	19	M2.5
A 6H 3M16DF09506	16	25.9	25.4	32				
A 6H 3M17DF09506	17	27.5	27	33		13	19	M2.5
A 6H 3M18DF09506	18	29.1	28.6	35				
A 6H 3M19DF09506	19	30.7	30.2	37		13	22	M2.5
A 6H 3M20DF09506	20	32.3	31.8	38				
A 6H 3M21DF09506	21	34	33.4	40		13	22	M2.5
A 6H 3M22DF09506	22	35.6	35.1	41				
A 6H 3M23DF09506	23	37.2	36.7	43		13	22	M2.5
A 6H 3M24DF09506	24	38.8	38.3	45				
A 6H 3M25DF09506	25	40.4	39.9	46	8	13	22	M2.5
A 6H 3M26DF09506	26	42	41.5	48				
A 6H 3M27DF09506	27	43.7	43.2	50		13	22	M2.5
A 6H 3M28DF09506	28	45.3	44.8	51				
A 6H 3M29DF09506	29	46.9	46.4	53		16	22	M2.5
A 6H 3M30DF09508	30	48.5	48	54				
A 6H 3M31DF09508	31	50.1	49.6	56		16	22	M2.5
A 6H 3M32DF09508	32	51.7	51.2	58				
A 6H 3M34DF09508	34	55	54.5	61		16	22	M2.5
A 6H 3M35DF09508	35	56.6	56.1	63				
A 6H 3M36DF09508	36	58.2	57.7	64		16	22	M2.5
A 6H 3M37DF09508	37	59.8	59.3	66				
A 6H 3M39DF09508	39	63.1	62.6	69		16	22	M2.5
A 6H 3M40DF09508	40	64.7	64.2	71				
A 6H 3M42DF09508	42	67.9	67.4	74	8	16	22	M2.5
A 6H 3M44DF09508	44	71.1	70.6	77				
A 6H 3M48DF09508	48	77.6	77.1	84				

NOTE: Pulleys with 10 to 21 grooves do not have webs.

*Bore Tolerance: 4 & 6 mm + 0.030
8 mm + 0.036

XL Timing Belt Pulleys - 1/5" Pitch

■ MOLDED WITH FAIRLOC® HUB

■ SINGLE OR NO FLANGE

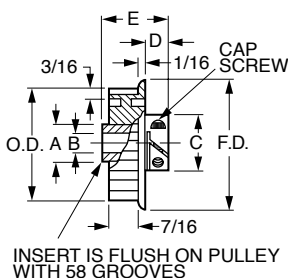


Fig. 1

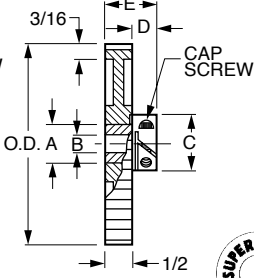


Fig. 2



FOR 3/8" BELTS

MATERIAL: Pulley – Polycarbonate, Fiberglass Reinforced
Hub – Aluminum Alloy, Overmolded

Catalog Number	No. of Grooves	P.D.	O.D.	F.D.	B Bore +.001 -.000	E Length	A Dia.	C Hub Dia.	D Hub Proj.	Cap Screw
• Fig. 1 SINGLE FLANGE										
A 6H 3-10SF03706	10	.637	.617	.87	.1875	13/16	3/8	1/2	1/4	#2-56
A 6H 3-11SF03706	11	.700	.680	.93						
A 6H 3-12SF03706	12	.764	.744	.99						
A 6H 3-13SF03706	13	.828	.808	1.06	.250	13/16	1/2	3/4	1/4	#4-40
A 6H 3-14SF03708	14	.891	.871	1.12						
A 6H 3-15SF03708	15	.955	.935	1.19						
A 6H 3-16SF03708	16	1.019	.999	1.24						
A 6H 3-17SF03708	17	1.082	1.062	1.31						
A 6H 3-18SF03708	18	1.146	1.126	1.38		13/16	1/2	3/4	1/4	#4-40
A 6H 3-19SF03708	19	1.210	1.190	1.44						
A 6H 3-20SF03708	20	1.273	1.253	1.51						
A 6H 3-21SF03708	21	1.337	1.317	1.57		13/16	1/2	7/8	1/4	#4-40
A 6H 3-22SF03708	22	1.401	1.381	1.63						
A 6H 3-23SF03708	23	1.464	1.444	1.69						
A 6H 3-24SF03708	24	1.528	1.508	1.76						
A 6H 3-25SF03708	25	1.592	1.572	1.82						
A 6H 3-26SF03708	26	1.655	1.635	1.89	.3125	13/16	1/2	7/8	1/4	#4-40
A 6H 3-27SF03708	27	1.719	1.699	1.95						
A 6H 3-28SF03708	28	1.783	1.763	2.02						
A 6H 3-29SF03708	29	1.846	1.826	2.08						
A 6H 3-30SF03710	30	1.910	1.890	2.14		13/16	5/8	7/8	1/4	#4-40
A 6H 3-31SF03710	31	1.974	1.954	2.20						
A 6H 3-32SF03710	32	2.037	2.017	2.27						
A 6H 3-33SF03710	33	2.101	2.081	2.34						
A 6H 3-34SF03710	34	2.165	2.145	2.40		13/16	5/8	7/8	1/4	#4-40
A 6H 3-35SF03710	35	2.228	2.208	2.46						
A 6H 3-36SF03710	36	2.292	2.272	2.53						
A 6H 3-37SF03710	37	2.355	2.335	2.59						
A 6H 3-38SF03710	38	2.419	2.399	2.66						
A 6H 3-39SF03710	39	2.483	2.463	2.71	.375	13/16	5/8	1-1/32	5/16	#6-32
A 6H 3-40SF03710	40	2.546	2.526	2.78						
A 6H 3-42SF03710	42	2.674	2.654	2.92						
A 6H 3-44SF03710	44	2.801	2.781	3.04						
A 6H 3-48SF03710	48	3.056	3.036	3.29						
A 6H 3-58SF03712	58	3.692	3.672	3.92						
• Fig. 2 NO FLANGE										
A 6H 3-60NF03712	60	3.820	3.800	—	.375	7/8	5/8	1-1/32	3/8	#8-32
A 6H 3-72NF03712	72	4.584	4.564	—						

NOTE: Pulleys with 10 to 21 grooves do not have webs.

■ MOLDED WITH FAIRLOC® HUB

■ SINGLE OR NO FLANGE

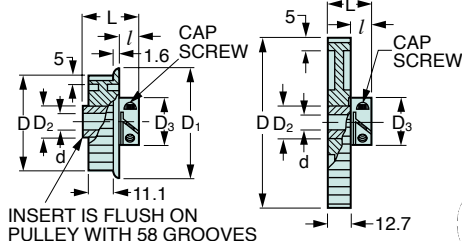
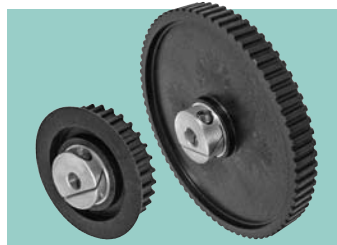


Fig. 1

Fig. 2



MATERIAL: Pulley – Polycarbonate, Fiberglass Reinforced
Hub – Aluminum Alloy, Overmolded

FOR 9.5 mm BELTS

Catalog Number	No. of Grooves	P.D.	D	D ₁	Bore H9	L Length	D ₂	D ₃ Hub Dia.	l Hub Proj.	Cap Screw
• Fig. 1 SINGLE FLANGE										
A 6H 3M10SF09504	10	16.2	15.7	22	4	20.6	9.5	13	6.3	M2.5
A 6H 3M11SF09504	11	17.8	17.3	24						
A 6H 3M12SF09504	12	19.4	18.9	25						
A 6H 3M13SF09504	13	21	20.5	27						
A 6H 3M14SF09506	14	22.6	22.1	28	6	20.6	13	19	6.3	M2.5
A 6H 3M15SF09506	15	24.3	23.7	30						
A 6H 3M16SF09506	16	25.9	25.4	32						
A 6H 3M17SF09506	17	27.5	27	33						
A 6H 3M18SF09506	18	29.1	28.6	35		20.6	13	19	6.3	M2.5
A 6H 3M19SF09506	19	30.7	30.2	37						
A 6H 3M20SF09506	20	32.3	31.8	38		20.6	13	22	6.3	M2.5
A 6H 3M21SF09506	21	34	33.5	40						
A 6H 3M22SF09506	22	35.6	35.1	41						
A 6H 3M23SF09506	23	37.2	36.7	43		20.6	13	22	6.3	M2.5
A 6H 3M24SF09506	24	38.8	38.3	45						
A 6H 3M25SF09506	25	40.4	39.9	46						
A 6H 3M26SF09506	26	42	41.6	48	8	20.6	13	22	6.3	M2.5
A 6H 3M27SF09506	27	43.7	43.2	50						
A 6H 3M28SF09506	28	45.3	44.8	51						
A 6H 3M29SF09506	29	46.9	46.4	53						
A 6H 3M30SF09508	30	48.5	48	54		20.6	16	22	6.3	M2.5
A 6H 3M31SF09508	31	50.1	49.6	56						
A 6H 3M32SF09508	32	51.7	51.2	58						
A 6H 3M34SF09508	34	55	54.5	61		20.6	16	22	6.3	M2.5
A 6H 3M35SF09508	35	56.6	56.1	63						
A 6H 3M36SF09508	36	58.2	57.7	64						
A 6H 3M37SF09508	37	59.8	59.3	66		20.6	16	22	6.3	M2.5
A 6H 3M39SF09508	39	63	62.5	69						
A 6H 3M40SF09508	40	64.7	64.2	71						
A 6H 3M42SF09508	42	67.9	67.4	74	10	20.6	16	22	6.3	M2.5
A 6H 3M44SF09508	44	71.1	70.6	77						
A 6H 3M48SF09508	48	77.6	77.1	84						
A 6H 3M58SF09510	58	93.8	93.3	100						
• Fig. 2 NO FLANGE										
A 6H 3M60NF09510	60	97	96.5	—	10	22.2	16	26	9.5	M4
A 6H 3M72NF09510	72	116.4	115.9							

NOTE: Pulleys with 10 to 21 grooves do not have webs.

*Bore Tolerance: 4 & 6 mm + 0.030
8 & 10 mm + 0.036

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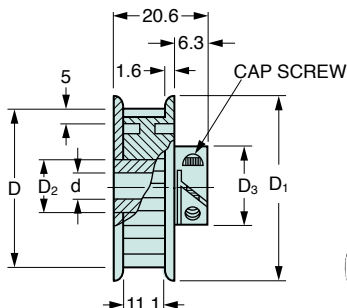
38

■ MOLDED WITH FAIRLOC® HUB

■ **TRUE METRIC®**

PROFILE

■ SINGLE FLANGE



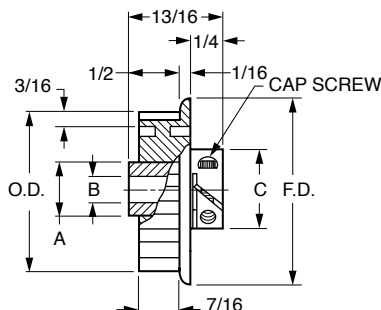
FOR 9 mm BELTS

MATERIAL: Pulley – Polycarbonate, Fiberglass Reinforced
Hub – Aluminum Alloy, Overmolded

Catalog Number	No. of Grooves	P.D.	D	D ₁	d Bore +0.025	D ₂	D ₃ Hub Dia.	Cap Screw
A 6H25M011DF0904	11	17.5	16.4	22	4	9.5	12.7	M2.5
A 6H25M012DF0904	12	19.1	18	24				
A 6H25M013DF0904	13	20.7	19.5	25				
A 6H25M014DF0906	14	22.3	21.1	27	6	12.7	19.1	M2.5
A 6H25M015DF0906	15	23.9	22.7	30				
A 6H25M016DF0906	16	25.5	24.3	30				
A 6H25M017DF0906	17	27.1	25.9	32		12.7	19.1	
A 6H25M018DF0906	18	28.6	27.5	33				
A 6H25M019DF0906	19	30.2	29.1	35				
A 6H25M020DF0906	20	31.8	30.7	37		12.7	19.1 22.2 22.2	
A 6H25M022DF0906	22	35	33.9	40				
A 6H25M025DF0906	25	39.8	38.6	45				
A 6H25M028DF0906	28	44.6	43.4	50		12.7	22.2	
A 6H25M029DF0906	29	46.2	45	51				
A 6H25M030DF0906	30	47.7	46.6	53				
A 6H25M040DF0908	40	63.7	62.5	69	8	15.9	22.2	
A 6H25M050DF0908	50	79.6	78.4	84				

NOTE: Pulleys with 11 to 19 grooves do not have webs.

■ MOLDED WITH FAIRLOC® HUB ■ **TRUE METRIC®** PROFILE ■ SINGLE FLANGE



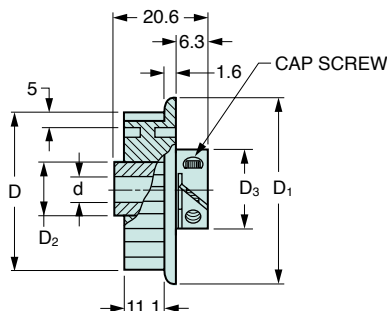
FOR 9 mm BELTS (.354 INCH)

MATERIAL: Pulley – Polycarbonate, Fiberglass Reinforced
Hub – Aluminum Alloy, Overmolded

Catalog Number	No. of Grooves	P.D.	O.D.	F.D.	B Bore +.001 -.000	A Dia.	C Hub Dia.	Cap Screw
A 6H25-011SF0906	11	.689	.644	.87	.1875	3/8	1/2	#2-56
A 6H25-012SF0906	12	.752	.707	.93				
A 6H25-013SF0906	13	.815	.770	.99				
A 6H25-014SF0908	14	.877	.832	1.06				
A 6H25-015SF0908	15	.940	.895	1.19	.250	1/2	3/4	#4-40
A 6H25-016SF0908	16	1.003	.958	1.19				
A 6H25-017SF0908	17	1.065	1.020	1.24				
A 6H25-018SF0908	18	1.128	1.083	1.31				
A 6H25-019SF0908	19	1.191	1.146	1.38		1/2	3/4	#4-40
A 6H25-020SF0908	20	1.253	1.208	1.44				
A 6H25-022SF0908	22	1.379	1.334	1.57				
A 6H25-025SF0908	25	1.566	1.521	1.76				
A 6H25-028SF0908	28	1.754	1.709	1.95	.3125	5/8	7/8	#4-40
A 6H25-029SF0908	29	1.817	1.772	2.02				
A 6H25-030SF0908	30	1.880	1.835	2.08				
A 6H25-040SF0910	40	2.506	2.461	2.71				
A 6H25-050SF0910	50	3.133	3.088	3.29				

NOTE: Pulleys with 11 to 19 grooves do not have webs.

■ MOLDED WITH FAIRLOC® HUB ■ **TRUE METRIC®** PROFILE ■ SINGLE FLANGE



FOR 9 mm BELTS

MATERIAL: Pulley – Polycarbonate, Fiberglass Reinforced
Hub – Aluminum Alloy, Overmolded

Catalog Number	No. of Grooves	P.D.	D	D ₁	d Bore +0.025	D ₂	D ₃ Hub Dia.	Cap Screw
A 6H25M011SF0904	11	17.5	16.4	22	4	9.5	12.7	M2.5
A 6H25M012SF0904	12	19.1	18	24				
A 6H25M013SF0904	13	20.7	19.5	25				
A 6H25M014SF0906	14	22.3	21.1	27	6	12.7	19.1	M2.5
A 6H25M015SF0906	15	23.9	22.7	30				
A 6H25M016SF0906	16	25.5	24.3	30				
A 6H25M017SF0906	17	27.1	25.9	32		12.7	19.1	
A 6H25M018SF0906	18	28.6	27.5	33				
A 6H25M019SF0906	19	30.2	29.1	35				
A 6H25M020SF0906	20	31.8	30.7	37		12.7	19.1 22.2 22.2	
A 6H25M022SF0906	22	35	33.9	40				
A 6H25M025SF0906	25	39.8	38.6	45				
A 6H25M028SF0906	28	44.6	43.4	50		12.7	22.2	
A 6H25M029SF0906	29	46.2	45	51				
A 6H25M030SF0906	30	47.7	46.6	53				
A 6H25M040SF0908	40	63.7	62.5	69	8	15.9	22.2	
A 6H25M050SF0908	50	79.6	78.4	84				

NOTE: Pulleys with 11 to 19 grooves do not have webs.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .197 & .250 FACE WIDTH

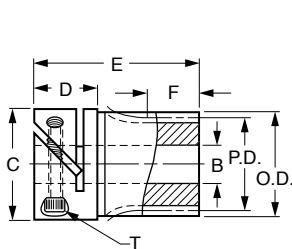


Fig. 1

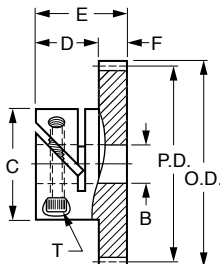
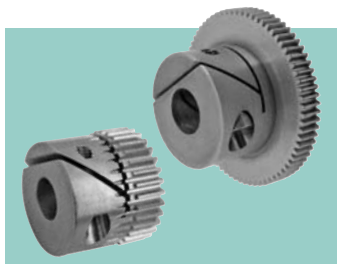


Fig. 2

NOTE: Socket Head Cap Screw Supplied.



S Precision Component

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	.3333	.375	.1248	.250	.866	.551	.315	#2-56	.327
S1VS48-018F1608		18	.3750	.417							
S1VS48-020F1608		20	.4167	.458							
S1VS48-024F1612		24	.5000	.542	.1873						
S1VS48-025F1612		25	.5208	.563							
S1VS48-028F1612		28	.5833	.625							
S1VS48-030F1316	2	30	.6250	.667	.2498	.197	.591	.669	.394	#2-56	.445
S1VS48-032F1316		32	.6667	.708							
S1VS48-036F1316		36	.7500	.792							
S1VS48-040F1316		40	.8333	.875							
S1VS48-045F1316		45	.9375	.979							
S1VS48-048F1316		48	1.0000	1.042							
S1VS48-050F1316		50	1.0417	1.083							
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	.3747						
S1VS48-070F1324		70	1.4583	1.500							
S1VS48-072F1324		72	1.5000	1.542							
S1VS48-075F1324		75	1.5625	1.604							
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

■ .197 & .250 FACE WIDTH

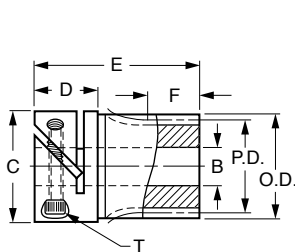


Fig. 1

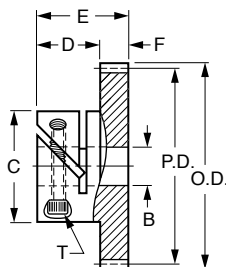
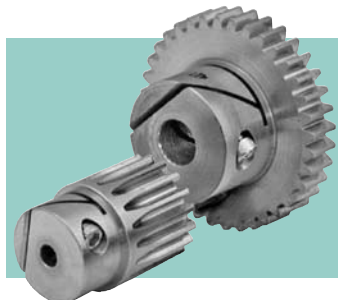


Fig. 2



NOTE: Socket Head Cap Screw Supplied.

S Precision Component

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	.4375	.500	.1248	.250	.866	.551	.315	#2-56	.326
S1VS32-015F1608		15	.4688	.531							
S1VS32-016F1608		16	.5000	.563							
S1VS32-018F1608		18	.5625	.625							
S1VS32-020F1312	2	20	.6250	.688	.1873	.197	.512	.551	.315	#2-56	.326
S1VS32-024F1312		24	.7500	.813							
S1VS32-025F1312		25	.7813	.844							
S1VS32-028F1312		28	.8750	.938							
S1VS32-030F1312	2	30	.9375	1.000	.2498	.197	.591	.669	.394	#2-56	.445
S1VS32-032F1312		32	1.0000	1.063							
S1VS32-036F1316		36	1.1250	1.188							
S1VS32-040F1316		40	1.2500	1.313							
S1VS32-045F1316	2	45	1.4063	1.469	.3747	.197	.750	.945	.551	#6-32	.551
S1VS32-048F1316		48	1.5000	1.563							
S1VS32-050F1316		50	1.5625	1.625							
S1VS32-054F1316		54	1.6875	1.750							
S1VS32-056F1316	2	56	1.7500	1.813	.3747	.197	.750	.945	.551	#6-32	.551
S1VS32-060F1324		60	1.8750	1.938							
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		90	2.8125	2.875							
S1VS32-096F1324	2	96	3.0000	3.063	.3747	.197	.750	.945	.551	#6-32	.551
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.

Fairloc® Hub Gears - 24 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .236 & .313 FACE WIDTH

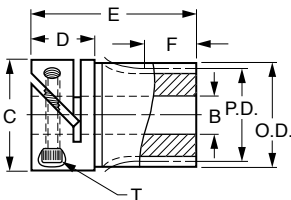


Fig. 1

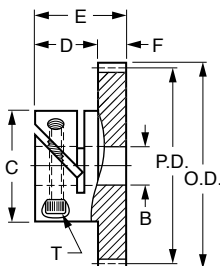
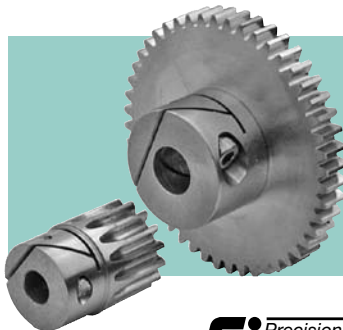


Fig. 2



NOTE: Socket Head Cap Screw Supplied.

S Precision Component

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	.5833	.667	.2498	.313	1.000	.669	.394	#2-56	.445
S1VS24-015F2016		15	.6250	.708							
S1VS24-016F2016		16	.6667	.750							
S1VS24-018F2016		18	.7500	.833							
S1VS24-020F1516	2	20	.8333	.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		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							
S1VS24-090F1524		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.

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 5 & 7 mm FACE WIDTH

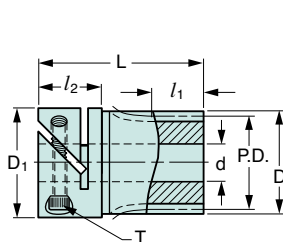


Fig. 1

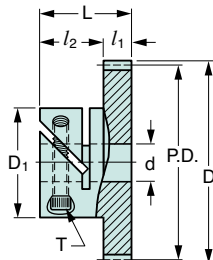
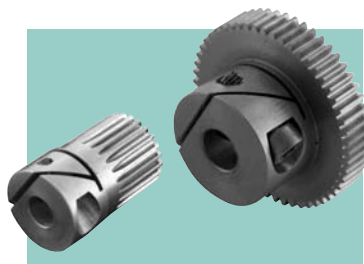


Fig. 2



NOTE: Socket Head Cap Screw Supplied.

S Precision Component

MATERIAL: 303 Stainless Steel

Catalog Number	Fig. No.	No. of Teeth	P.D.	D	d* Bore H7	l ₁ Face Width	L	D ₁	l ₂	T	Hub Clear. Rad.
S1VS05M016F0704	1	16	8	9	4	7	22	14	8	M2.5	8.3
S1VS05M018F0704		18	9	10							
S1VS05M020F0704		20	10	11							
S1VS05M024F0705		24	12	13	5	7	22	14	8	M2.5	8.3
S1VS05M025F0705		25	12.5	13.5							
S1VS05M028F0705		28	14	15							
S1VS05M030F0705	2	30	15	16	6	5	15	17	10	M3	11.3
S1VS05M032F0506		32	16	17							
S1VS05M036F0506		36	18	19							
S1VS05M040F0506		40	20	21							
S1VS05M045F0506		45	22.5	23.5							
S1VS05M048F0506		48	24	25							
S1VS05M050F0506		50	25	26	8	5	15	17	10	M3	11.3
S1VS05M054F0506		54	27	28							
S1VS05M056F0506		56	28	29							
S1VS05M060F0508		60	30	31							
S1VS05M064F0508		64	32	33							
S1VS05M070F0508		70	35	36							
S1VS05M072F0508		72	36	37							
S1VS05M075F0508		75	37.5	38.5							
S1VS05M080F0510		80	40	41	10	5	19	24	14	M4	14
S1VS05M090F0510		90	45	46							
S1VS05M096F0510		96	48	49							
S1VS05M100F0510		100	50	51							
S1VS05M112F0510		112	56	57							
S1VS05M120F0510		120	60	61							

*Bore Tolerance: 4, 5 & 6 mm + 0.012
8 & 10 mm + 0.015

Gears larger than 90 teeth have two-piece construction.

Fairloc® hubs require controlled shaft tolerances.
Suggested tolerance according to g6, h6 or h7.

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 5 & 7 mm FACE WIDTH

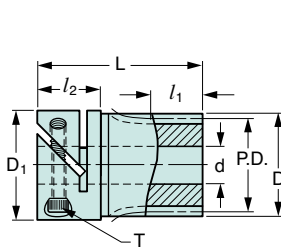


Fig. 1

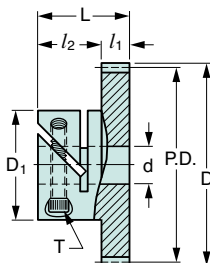
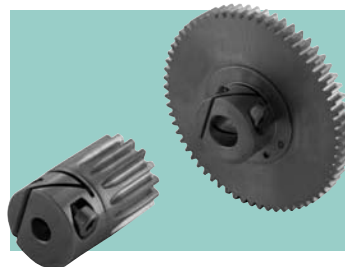


Fig. 2



NOTE: Socket Head Cap Screw Supplied.

S Precision Component

MATERIAL: 303 Stainless Steel

Catalog Number	Fig. No.	No. of Teeth	P.D.	D	d* Bore H7	l ₁ Face Width	L	D ₁	l ₂	T	Hub Clear. Rad.
S1VS08M014F0704	1	14	11.2	12.8	4	7	22	14	8	M2.5	8.3
S1VS08M015F0704		15	12	13.6							
S1VS08M016F0704		16	12.8	14.4							
S1VS08M018F0704		18	14.4	16							
S1VS08M020F0504	2	20	16	17.6	4	5	13	14	8	M2.5	8.3
S1VS08M022F0504		22	17.6	19.2							
S1VS08M024F0505		24	19.2	20.8							
S1VS08M025F0505		25	20	21.6							
S1VS08M028F0505		28	22.4	24	5	5	13	14	8	M2.5	8.3
S1VS08M030F0505		30	24	25.6							
S1VS08M032F0505		32	25.6	27.2							
S1VS08M036F0506		36	28.8	30.4	6	5	15	17	10	M3	11.3
S1VS08M040F0506		40	32	33.6							
S1VS08M045F0506		45	36	37.6							
S1VS08M048F0506		48	38.4	40							
S1VS08M050F0506		50	40	41.6	8	5	15	17	10	M3	11.3
S1VS08M054F0506		54	43.2	44.8							
S1VS08M056F0506		56	44.8	46.4							
S1VS08M060F0508		60	48	49.6							
S1VS08M064F0508		64	51.2	52.8	10	5	19	24	14	M4	14
S1VS08M072F0508		72	57.6	59.2							
S1VS08M080F0510		80	64	65.6							
S1VS08M090F0510		90	72	73.6							
S1VS08M100F0510		100	80	81.6							

*Bore Tolerance: 4, 5 & 6 mm + 0.012
8 & 10 mm + 0.015

Gears larger than 60 teeth have two-piece construction.

Fairloc® hubs require controlled shaft tolerances.
Suggested tolerance according to g6, h6 or h7.

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 6 & 8 mm FACE WIDTH

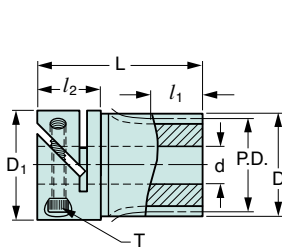


Fig. 1

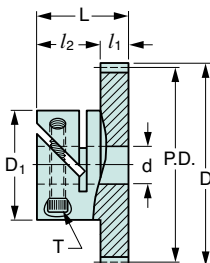
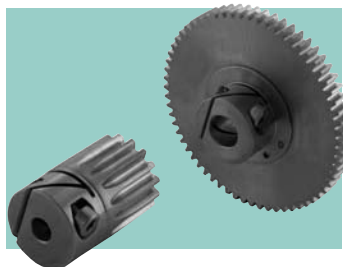


Fig. 2



NOTE: Socket Head Cap Screw Supplied.

S Precision Component

MATERIAL: 303 Stainless Steel

Catalog Number	Fig. No.	No. of Teeth	P.D.	D	d* Bore H7	L ₁ Face Width	L	D ₁	L ₂	T	Hub Clear. Rad.
S1VS10M014F0806	1	14	14	16	6	8	25	17	10	M3	11.3
S1VS10M015F0806		15	15	17							
S1VS10M016F0806		16	16	18							
S1VS10M018F0806		18	18	20							
S1VS10M020F0606	2	20	20	22	6	6	16	17	10	M3	11.3
S1VS10M024F0606		24	24	26							
S1VS10M025F0606		25	25	27							
S1VS10M028F0606		28	28	30							
S1VS10M030F0608		30	30	32	8	6	16	17	10	M3	11.3
S1VS10M032F0608		32	32	34							
S1VS10M035F0608		35	35	37							
S1VS10M036F0608		36	36	38							
S1VS10M040F0608		40	40	42	10	6	20	24	14	M4	14
S1VS10M045F0608		45	45	47							
S1VS10M048F0608		48	48	50							
S1VS10M050F0610		50	50	52							
S1VS10M056F0610		56	56	58							
S1VS10M060F0610		60	60	62							
S1VS10M064F0610		64	64	66							
S1VS10M070F0610		70	70	72							
S1VS10M072F0610		72	72	74							
S1VS10M080F0610		80	80	82							
S1VS10M090F0610		90	90	92							
S1VS10M100F0610		100	100	102							

*Bore Tolerance: 6 mm + 0.012
8 & 10 mm + 0.015

Gears larger than 45 teeth have two-piece construction.

Fairloc® hubs require controlled shaft tolerances.
Suggested tolerance according to g6, h6 or h7.

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

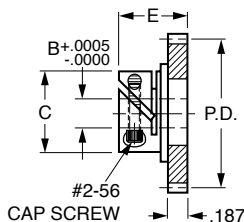


Fig. 1

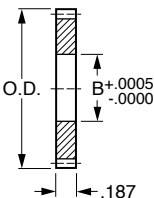


Fig. 2

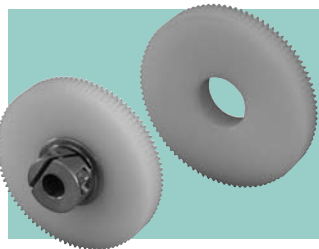


Fig.	Bore Ref.	C	E
1	.1873	.438	.453
	.2498	.530	.483

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

S Precision Component

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	.5555	.583
S1V84Z-072DS041	S1V86Z-072DS041	S1288Z-072D041	41	.5694	.597
S1V84Z-072DS042	S1V86Z-072DS042	S1288Z-072D042	42	.5833	.611
S1V84Z-072DS043	S1V86Z-072DS043	S1288Z-072D043	43	.5972	.625
S1V84Z-072DS044	S1V86Z-072DS044	S1288Z-072D044	44	.6111	.639
S1V84Z-072DS045	S1V86Z-072DS045	S1288Z-072D045	45	.6250	.653
S1V84Z-072DS046	S1V86Z-072DS046	S1288Z-072D046	46	.6388	.667
S1V84Z-072DS048	S1V86Z-072DS048	S1288Z-072D048	48	.6666	.694
S1V84Z-072DS050	S1V86Z-072DS050	S1288Z-072D050	50	.6944	.722
S1V84Z-072DS054	S1V86Z-072DS054	S1288Z-072D054	54	.7500	.778
S1V84Z-072DS060	S1V86Z-072DS060	S1288Z-072D060	60	.8333	.861
S1V84Z-072DS066	S1V86Z-072DS066	S1288Z-072D066	66	.9166	.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 our Web site: www.sdp-si.com.

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

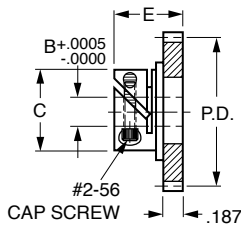


Fig. 1

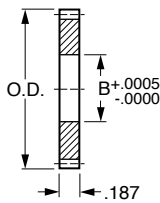
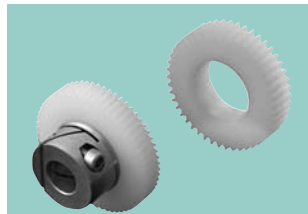


Fig. 2



S Precision Component

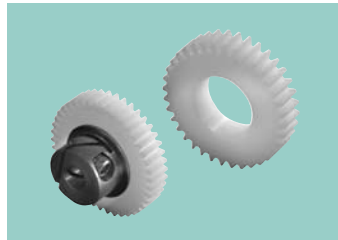
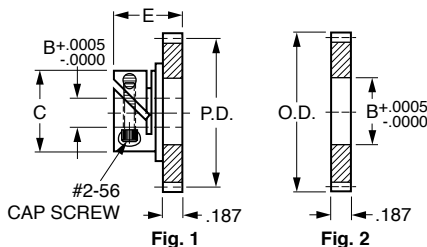
MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

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

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



S Precision Component

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

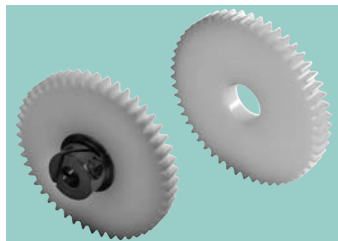
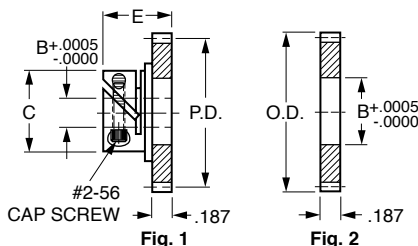
Fig.	Bore Ref.	C	E
1	.1873	.438	.453
	.2498	.530	.483

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.

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



S Precision Component

MATERIAL: Gear – Acetal
Hub – 303 Stainless Steel

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

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 our Web site: www.sdp-si.com.

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

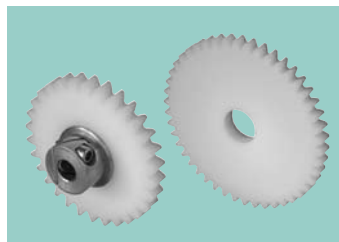
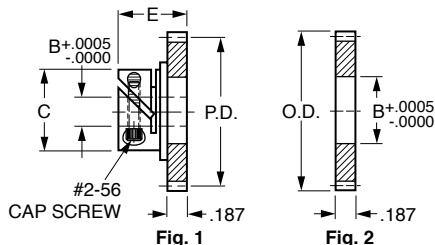


Fig. 1	Bore Ref.	C	E
	.1873	.438	.453
	.2498	.530	.483

S Precision Component

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

■ ISO CLASS 7 ■ 5 mm FACE WIDTH ■ 20° PRESSURE ANGLE ■ 5, 8 & 10 mm BORE

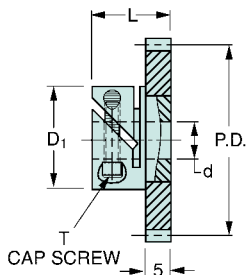


Fig. 1

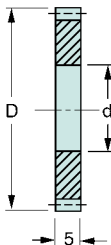
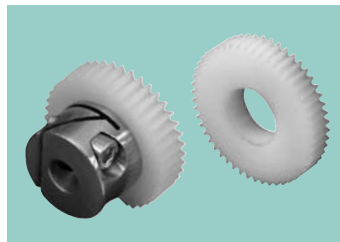


Fig. 2



S Precision Component

Fig. 1	Bore Ref.	T	D ₁	L
	5	M2.5	14	13.5
	8	M3	17	14.8

MATERIALS: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	D
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
d = Ø5 H7	d = Ø8 H7	d = Ø10 H8			
S1VZ05M028T0505	S1VZ05M028T0508	S12M05M028N0510	28	14	15
S1VZ05M029T0505	S1VZ05M029T0508	S12M05M029N0510	29	14.5	15.5
S1VZ05M030T0505	S1VZ05M030T0508	S12M05M030N0510	30	15	16
S1VZ05M032T0505	S1VZ05M032T0508	S12M05M032N0510	32	16	17
S1VZ05M036T0505	S1VZ05M036T0508	S12M05M036N0510	36	18	19
S1VZ05M040T0505	S1VZ05M040T0508	S12M05M040N0510	40	20	21
S1VZ05M044T0505	S1VZ05M044T0508	S12M05M044N0510	44	22	23
S1VZ05M045T0505	S1VZ05M045T0508	S12M05M045N0510	45	22.5	23.5
S1VZ05M048T0505	S1VZ05M048T0508	S12M05M048N0510	48	24	25
S1VZ05M050T0505	S1VZ05M050T0508	S12M05M050N0510	50	25	26
S1VZ05M056T0505	S1VZ05M056T0508	S12M05M056N0510	56	28	29
S1VZ05M060T0505	S1VZ05M060T0508	S12M05M060N0510	60	30	31
S1VZ05M064T0505	S1VZ05M064T0508	S12M05M064N0510	64	32	33
S1VZ05M068T0505	S1VZ05M068T0508	S12M05M068N0510	68	34	35
S1VZ05M070T0505	S1VZ05M070T0508	S12M05M070N0510	70	35	36
S1VZ05M072T0505	S1VZ05M072T0508	S12M05M072N0510	72	36	37
S1VZ05M075T0505	S1VZ05M075T0508	S12M05M075N0510	75	37.5	38.5
S1VZ05M080T0505	S1VZ05M080T0508	S12M05M080N0510	80	40	41
S1VZ05M084T0505	S1VZ05M084T0508	S12M05M084N0510	84	42	43
S1VZ05M090T0505	S1VZ05M090T0508	S12M05M090N0510	90	45	46
S1VZ05M092T0505	S1VZ05M092T0508	S12M05M092N0510	92	46	47
S1VZ05M096T0505	S1VZ05M096T0508	S12M05M096N0510	96	48	49
S1VZ05M100T0505	S1VZ05M100T0508	S12M05M100N0510	100	50	51
S1VZ05M110T0505	S1VZ05M110T0508	S12M05M110N0510	110	55	56
S1VZ05M120T0505	S1VZ05M120T0508	S12M05M120N0510	120	60	61
S1VZ05M138T0505	S1VZ05M138T0508	S12M05M138N0510	138	69	70
S1VZ05M144T0505	S1VZ05M144T0508	S12M05M144N0510	144	72	73
S1VZ05M168T0505	S1VZ05M168T0508	S12M05M168N0510	168	84	85
S1VZ05M180T0505	S1VZ05M180T0508	S12M05M180N0510	180	90	91
S1VZ05M186T0505	S1VZ05M186T0508	S12M05M186N0510	186	93	94

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

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 5 mm FACE WIDTH

■ 5, 8 & 10 mm BORE

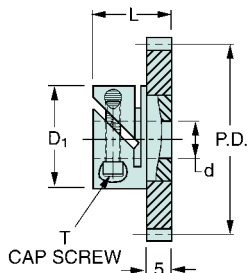


Fig. 1

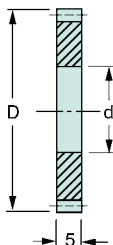
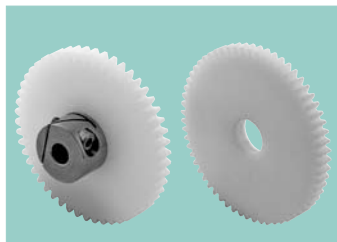


Fig. 2



S Precision Component

Fig. 1	Bore Ref.	T	D ₁	L
	5	M2.5	14	13.5
	8	M3	17	14.8

MATERIALS: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	D
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
d = Ø5 H7	d = Ø8 H7	d = Ø10 H8			
S1VZ08M020T0505	S1VZ08M020T0508	S12M08M020N0510	20	16	17.6
S1VZ08M021T0505	S1VZ08M021T0508	S12M08M021N0510	21	16.8	18.4
S1VZ08M023T0505	S1VZ08M023T0508	S12M08M023N0510	23	18.4	20
S1VZ08M024T0505	S1VZ08M024T0508	S12M08M024N0510	24	19.2	20.8
S1VZ08M025T0505	S1VZ08M025T0508	S12M08M025N0510	25	20	21.6
S1VZ08M026T0505	S1VZ08M026T0508	S12M08M026N0510	26	20.8	22.4
S1VZ08M028T0505	S1VZ08M028T0508	S12M08M028N0510	28	22.4	24
S1VZ08M030T0505	S1VZ08M030T0508	S12M08M030N0510	30	24	25.6
S1VZ08M032T0505	S1VZ08M032T0508	S12M08M032N0510	32	25.6	27.2
S1VZ08M036T0505	S1VZ08M036T0508	S12M08M036N0510	36	28.8	30.4
S1VZ08M040T0505	S1VZ08M040T0508	S12M08M040N0510	40	32	33.6
S1VZ08M042T0505	S1VZ08M042T0508	S12M08M042N0510	42	33.6	35.2
S1VZ08M044T0505	S1VZ08M044T0508	S12M08M044N0510	44	35.2	36.8
S1VZ08M045T0505	S1VZ08M045T0508	S12M08M045N0510	45	36	37.6
S1VZ08M046T0505	S1VZ08M046T0508	S12M08M046N0510	46	36.8	38.4
S1VZ08M048T0505	S1VZ08M048T0508	S12M08M048N0510	48	38.4	40
S1VZ08M050T0505	S1VZ08M050T0508	S12M08M050N0510	50	40	41.6
S1VZ08M052T0505	S1VZ08M052T0508	S12M08M052N0510	52	41.6	43.2
S1VZ08M056T0505	S1VZ08M056T0508	S12M08M056N0510	56	44.8	46.4
S1VZ08M060T0505	S1VZ08M060T0508	S12M08M060N0510	60	48	49.6

Continued on the next page

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

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 5 mm FACE WIDTH

■ 5, 8 & 10 mm BORE

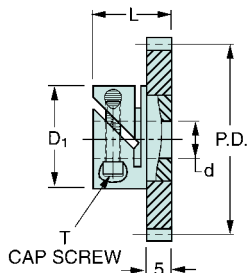


Fig. 1

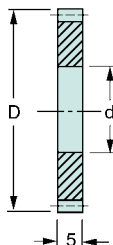
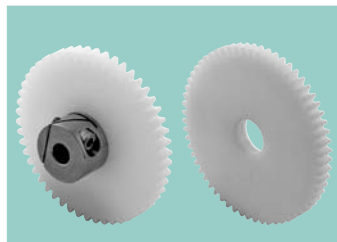


Fig. 2



S Precision Component

Fig. 1	Bore Ref.	T	D ₁	L
	5	M2.5	14	13.5
	8	M3	17	14.8

MATERIALS: Gear – Acetal

Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	D
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
d = Ø5 H7	d = Ø8 H7	d = Ø10 H8			
S1VZ08M064T0505	S1VZ08M064T0508	S12M08M064N0510	64	51.2	52.8
S1VZ08M066T0505	S1VZ08M066T0508	S12M08M066N0510	66	52.8	54.4
S1VZ08M072T0505	S1VZ08M072T0508	S12M08M072N0510	72	57.6	59.2
S1VZ08M080T0505	S1VZ08M080T0508	S12M08M080N0510	80	64	65.6
S1VZ08M084T0505	S1VZ08M084T0508	S12M08M084N0510	84	67.2	68.8
S1VZ08M088T0505	S1VZ08M088T0508	S12M08M088N0510	88	70.4	72
S1VZ08M090T0505	S1VZ08M090T0508	S12M08M090N0510	90	72	73.6
S1VZ08M092T0505	S1VZ08M092T0508	S12M08M092N0510	92	73.6	75.2
S1VZ08M096T0505	S1VZ08M096T0508	S12M08M096N0510	96	76.8	78.4
S1VZ08M100T0505	S1VZ08M100T0508	S12M08M100N0510	100	80	81.6
S1VZ08M104T0505	S1VZ08M104T0508	S12M08M104N0510	104	83.2	84.8
S1VZ08M108T0505	S1VZ08M108T0508	S12M08M108N0510	108	86.4	88
S1VZ08M112T0505	S1VZ08M112T0508	S12M08M112N0510	112	89.6	91.2
S1VZ08M124T0505	S1VZ08M124T0508	S12M08M124N0510	124	99.2	100.8

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

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 5 mm FACE WIDTH

■ 5, 8 & 10 mm BORE

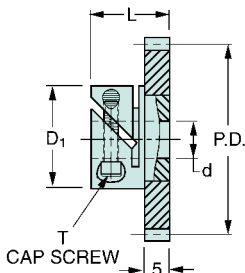


Fig. 1

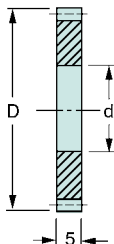
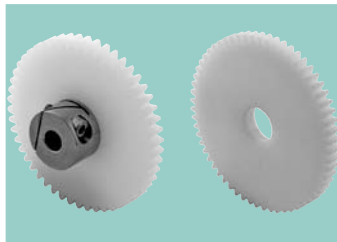


Fig. 2



S Precision Component

Fig. 1	Bore Ref.	T	D ₁	L
	5	M2.5	14	13.5
	8	M3	17	14.8

MATERIALS: Gear – Acetal
Hub – 303 Stainless Steel

Catalog Number			No. of Teeth	P.D.	D
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
d = Ø5 H7	d = Ø8 H7	d = Ø10 H8			
S1VZ10M015T0505	S1VZ10M015T0508	S12M10M015N0510	15	15	17
S1VZ10M016T0505	S1VZ10M016T0508	S12M10M016N0510	16	16	18
S1VZ10M018T0505	S1VZ10M018T0508	S12M10M018N0510	18	18	20
S1VZ10M020T0505	S1VZ10M020T0508	S12M10M020N0510	20	20	22
S1VZ10M021T0505	S1VZ10M021T0508	S12M10M021N0510	21	21	23
S1VZ10M022T0505	S1VZ10M022T0508	S12M10M022N0510	22	22	24
S1VZ10M023T0505	S1VZ10M023T0508	S12M10M023N0510	23	23	25
S1VZ10M024T0505	S1VZ10M024T0508	S12M10M024N0510	24	24	26
S1VZ10M025T0505	S1VZ10M025T0508	S12M10M025N0510	25	25	27
S1VZ10M028T0505	S1VZ10M028T0508	S12M10M028N0510	28	28	30
S1VZ10M030T0505	S1VZ10M030T0508	S12M10M030N0510	30	30	32
S1VZ10M032T0505	S1VZ10M032T0508	S12M10M032N0510	32	32	34
S1VZ10M035T0505	S1VZ10M035T0508	S12M10M035N0510	35	35	37
S1VZ10M036T0505	S1VZ10M036T0508	S12M10M036N0510	36	36	38
S1VZ10M040T0505	S1VZ10M040T0508	S12M10M040N0510	40	40	42
S1VZ10M042T0505	S1VZ10M042T0508	S12M10M042N0510	42	42	44

Continued on the next page

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

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 5 mm FACE WIDTH

■ 5, 8 & 10 mm BORE

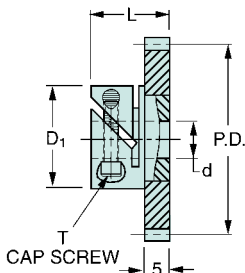


Fig. 1

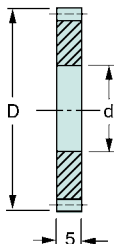
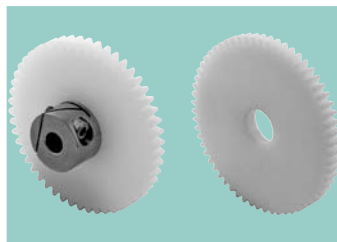


Fig. 2



S Precision Component

Fig. 1	Bore Ref.	T	D ₁	L
	5	M2.5	14	13.5
	8	M3	17	14.8

MATERIALS: Gear – Acetal
Hub – 303 Stainless Steel

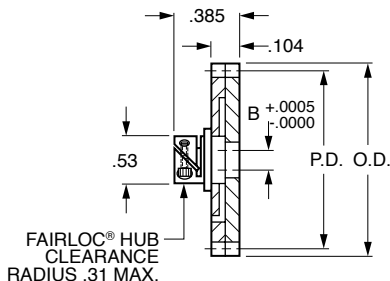
Catalog Number			No. of Teeth	P.D.	D
FAIRLOC® TYPE HUB GEAR (Fig. 1)		HUBLESS (Fig. 2)			
d = Ø5 H7	d = Ø8 H7	d = Ø10 H8			
S1VZ10M045T0505	S1VZ10M045T0508	S12M10M045N0510	45	45	47
S1VZ10M046T0505	S1VZ10M046T0508	S12M10M046N0510	46	46	48
S1VZ10M048T0505	S1VZ10M048T0508	S12M10M048N0510	48	48	50
S1VZ10M050T0505	S1VZ10M050T0508	S12M10M050N0510	50	50	52
S1VZ10M052T0505	S1VZ10M052T0508	S12M10M052N0510	52	52	54
S1VZ10M056T0505	S1VZ10M056T0508	S12M10M056N0510	56	56	58
S1VZ10M060T0505	S1VZ10M060T0508	S12M10M060N0510	60	60	62
S1VZ10M064T0505	S1VZ10M064T0508	S12M10M064N0510	64	64	66
S1VZ10M066T0505	S1VZ10M066T0508	S12M10M066N0510	66	66	68
S1VZ10M069T0505	S1VZ10M069T0508	S12M10M069N0510	69	69	71
S1VZ10M070T0505	S1VZ10M070T0508	S12M10M070N0510	70	70	72
S1VZ10M072T0505	S1VZ10M072T0508	S12M10M072N0510	72	72	74
S1VZ10M078T0505	S1VZ10M078T0508	S12M10M078N0510	78	78	80
S1VZ10M080T0505	S1VZ10M080T0508	S12M10M080N0510	80	80	82
S1VZ10M084T0505	S1VZ10M084T0508	S12M10M084N0510	84	84	86
S1VZ10M090T0505	S1VZ10M090T0508	S12M10M090N0510	90	90	92
S1VZ10M093T0505	S1VZ10M093T0508	S12M10M093N0510	93	93	95
S1VZ10M100T0505	S1VZ10M100T0508	S12M10M100N0510	100	100	102

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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, Spring Temper

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	.6250	.642
80	.6667	.683
84	.7000	.717
85	.7083	.725
90	.7500	.767
95	.7917	.808
96	.8000	.817
100	.8333	.850
105	.8750	.892
110	.9167	.933
115	.9583	.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.

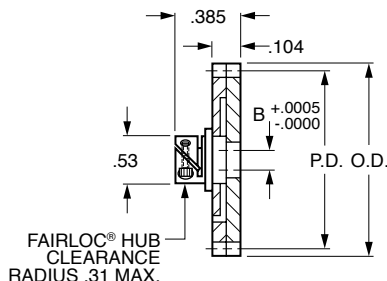
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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, 302 Stainless Steel,
Spring Temper

Example:

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

No. of Teeth	P.D.	O.D.
60	.6250	.646
62	.6458	.667
64	.6667	.688
66	.6875	.708
68	.7083	.729
70	.7292	.750
72	.7500	.771
74	.7708	.792
80	.8333	.854
84	.8750	.896
90	.9375	.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

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

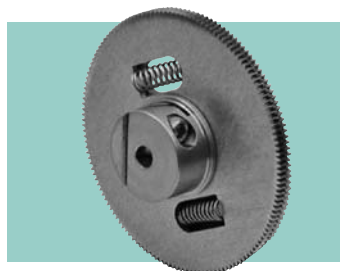
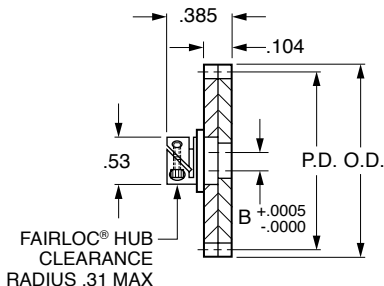
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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**

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 Temper

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.

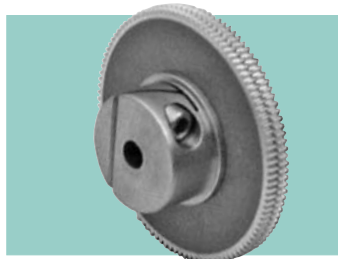
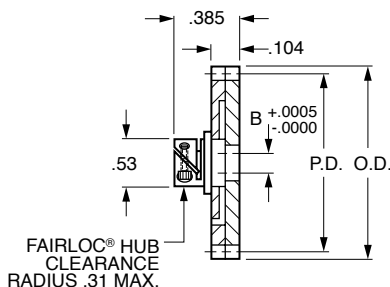
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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, 302 Stainless Steel,
Spring Temper

Example:

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

No. of Teeth	P.D.	O.D.
50	.6250	.650
52	.6500	.675
54	.6750	.700
55	.6875	.713
56	.7000	.725
58	.7250	.750
60	.7500	.775
62	.7750	.800
64	.8000	.825
65	.8125	.838
66	.8250	.850
70	.8750	.900
75	.9375	.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

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

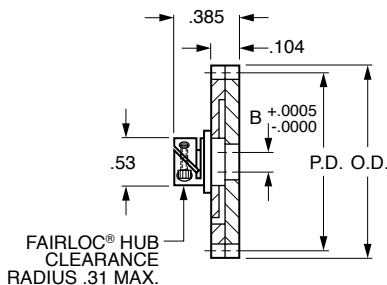
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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, 302 Stainless Steel,
Spring Temper

Example:

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

No. of Teeth	P.D.	O.D.
45	.6250	.653
46	.6389	.667
48	.6667	.694
50	.6944	.722
52	.7222	.750
54	.7500	.778
56	.7778	.806
58	.8056	.833
60	.8333	.861
62	.8611	.889
64	.8889	.917
66	.9167	.944
68	.9444	.972
70	.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

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

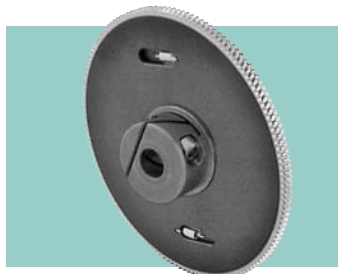
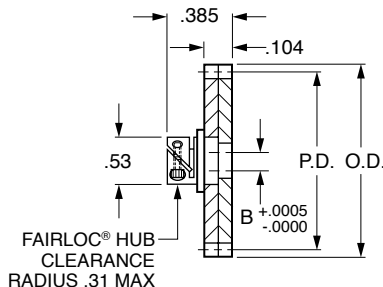
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



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 Temper

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.

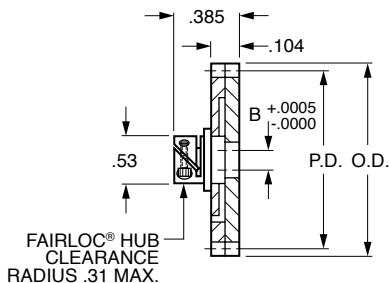
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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 **A**
Anodized before cutting

HUBS: 303 Stainless Steel

SPRINGS: Torsion Type, 302 Stainless Steel,
Spring Temper

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	.6250	.656
42	.6563	.688
44	.6875	.719
46	.7188	.750
48	.7500	.781
50	.7813	.813
52	.8125	.844
54	.8438	.875
56	.8750	.906
58	.9063	.938
60	.9375	.969
62	.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.

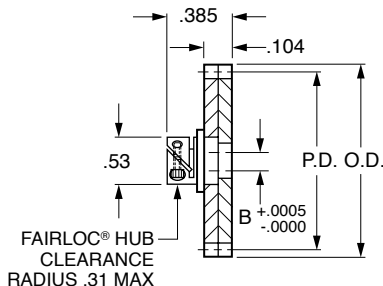
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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 Temper

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.

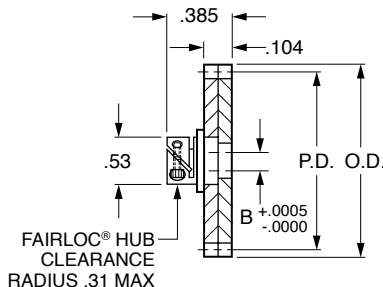
Fairloc® hubs require controlled shaft tolerances.

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

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ .104 FACE



S Precision Component

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 Temper

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.

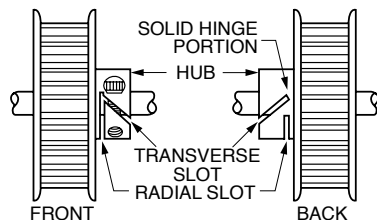
Available on special order: 14-1/2° pressure angle, teeth not listed, different bore size, passivation for Stainless Steel.

Fairloc® hubs require controlled shaft tolerances.

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

The Better Way to Fasten Rotating Components.

Solves...Phasing, Timing, Positioning and Frequent Removal Problems



Here's How It Works!

Two slots are machined into the hub, one oriented radially, the other angularly, to create a transverse wedge which remains attached to the solid portion of the hub on one side. The resultant cantilevered clamping section has a tapped hole to accept a cap screw which passes through a clearance hole in the solid portion of the hub, and into a threaded hole in the transverse wedge section. As the screw is tightened, the cantilevered section clamps the shaft securely. The screw can be tightened and released repeatedly without marring the shaft or affecting its torque transmitting abilities.

Proved Most Effective

For precision application – Lab tests proved Fairloc® to be superior to all other comparable fasteners. For high torque application – Torques up to 400 lb. in. are obtained with a 5/8" bore Fairloc® hub.

• Full Use Of The Bore

Gives maximum support to the component, reduces wobble or misalignment.

• Easy Adjustment

Fairloc® replaces set screws and clamps, eliminates marred shafts; components can be repositioned with a single hex key adjustment.

• Compact, Self-Contained Design

When available space or access is limited Fairloc's® small hub envelope is a distinct advantage.

• Very High Reliability

Fairloc® Hub Pulleys

Pitch	Page #
.080	26
1/5	34
3 mm HTD	28
5 mm HTD	38
2 mm GT®2	30
3 mm GT®2	32

Typical Application Areas For Fairloc® Include:

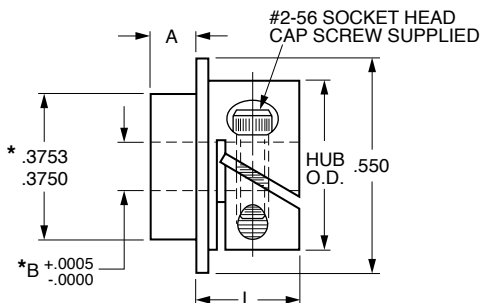
Computer Tape Drives, Aerospace Components, Aircraft Instrumentation, Aircraft Fuel Control Systems, Machine Tools, N/C Machines, Computer Input / Output Systems, Military Fire Control Systems, Medical Equipment, Business Machines, Optical Equipment, Power Drives.

FASTENER SELECTOR GUIDE						Legend
Fastening Method	A	B	C	D	E	
Clamps	Yes	No	No	Yes	No	A – Shaft remains smooth B – Self-contained (no additional inventory) C – Component is fully supported D – Easy adjustment E – Can be pinned if desired
*Fairloc®	Yes	Yes	Yes	Yes	Yes	
Keys	No	No	No	No	No	
Pins	No	No	No	No	Yes	
Set Screws	No	No	No	No	Yes	

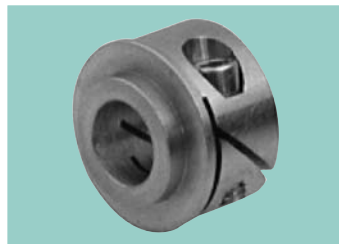
*Patented

®Registered trademark

Call on our Engineering Department to discuss the advantages of applying the Fairloc® concept to your designs.



*Diameters Concentric Within .0003 T.I.R.



S Precision Component

MATERIAL: 303 Stainless Steel

Catalog Number	A	B Bore	L	Hub O.D.	Clearance 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-062125	.062	.2405			
S2F06Y-125125	.125	.2498			
S2F06Y-062187	.062	.2405	.295	.530	.304
S2F06Y-125187	.125	.2498			
S2F06Y-187187	.187	.2498			
S2F06Y-062241	.062	.2498			
S2F06Y-125241	.125	.2498			
S2F06Y-187241	.187	.2498			
S2F06Y-062250	.062	.2498			
S2F06Y-125250	.125	.2498			
S2F06Y-187250	.187	.2498			

Available on special order: 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.

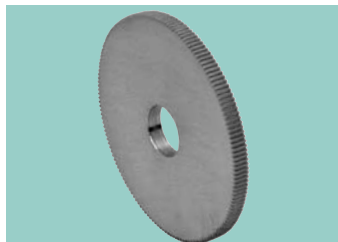
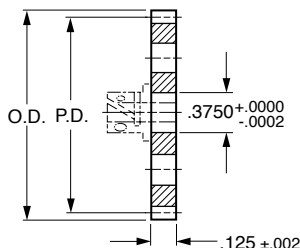
Hubless Spur Gears - 120 Pitch

■ 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	.6250	.642
S1268Z-120S076	S1268Z-120A076	76	.6333	.650
S1268Z-120S078	S1268Z-120A078	78	.6500	.667
S1268Z-120S080	S1268Z-120A080	80	.6667	.683
S1268Z-120S082	S1268Z-120A082	82	.6833	.700
S1268Z-120S084	S1268Z-120A084	84	.7000	.717
S1268Z-120S090	S1268Z-120A090	90	.7500	.767
S1268Z-120S096	S1268Z-120A096	96	.8000	.817
S1268Z-120S100	S1268Z-120A100	100	.8333	.850
S1268Z-120S105	S1268Z-120A105	105	.8750	.892
S1268Z-120S110	S1268Z-120A110	110	.9167	.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.

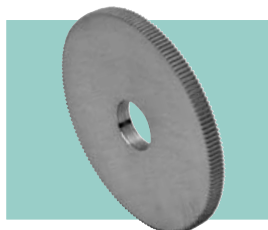
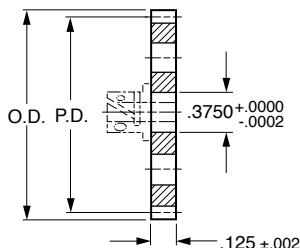
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for Stainless Steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



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

S Precision Component

- 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	.6042	.625
S1268Z-096S062	S1268Z-096A062	62	.6458	.667
S1268Z-096S064	S1268Z-096A064	64	.6667	.688
S1268Z-096S066	S1268Z-096A066	66	.6875	.708
S1268Z-096S072	S1268Z-096A072	72	.7500	.771
S1268Z-096S084	S1268Z-096A084	84	.8750	.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.

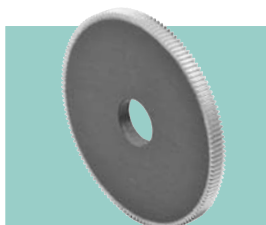
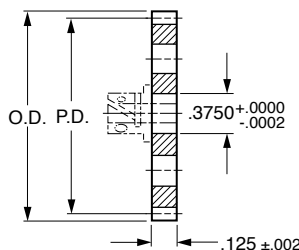
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for Stainless Steel.

■ AGMA 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	.6000	.625
S1268Z-080S050	S1268Z-080A050	50	.6250	.650
S1268Z-080S052	S1268Z-080A052	52	.6500	.675
S1268Z-080S054	S1268Z-080A054	54	.6750	.700
S1268Z-080S056	S1268Z-080A056	56	.7000	.725
S1268Z-080S058	S1268Z-080A058	58	.7250	.750
S1268Z-080S060	S1268Z-080A060	60	.7500	.775
S1268Z-080S062	S1268Z-080A062	62	.7750	.800
S1268Z-080S070	S1268Z-080A070	70	.8750	.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.

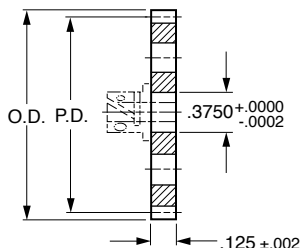
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for Stainless Steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



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

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S Precision Component

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-072S043	S1268Z-072A043	43	.5972	.625
S1268Z-072S048	S1268Z-072A048	48	.6667	.694
S1268Z-072S054	S1268Z-072A054	54	.7500	.778
S1268Z-072S060	S1268Z-072A060	60	.8333	.861
S1268Z-072S064	S1268Z-072A064	64	.8889	.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-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.

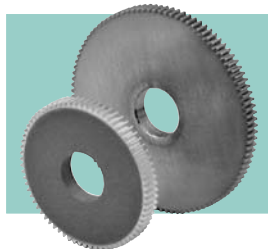
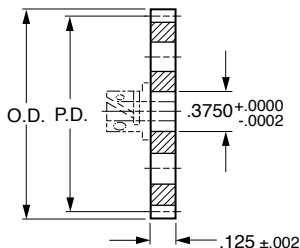
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for Stainless Steel.

■ 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.

S Precision Component

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-064S038	S1268Z-064A038	38	.5938	.625
S1268Z-064S040	S1268Z-064A040	40	.6250	.656
S1268Z-064S048	S1268Z-064A048	48	.7500	.781
S1268Z-064S050	S1268Z-064A050	50	.7813	.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.

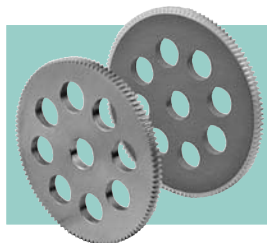
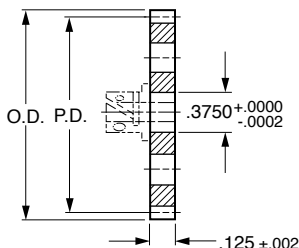
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■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



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Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-048S029	S1268Z-048A029	29	.6042	.646
S1268Z-048S030	S1268Z-048A030	30	.6250	.667
S1268Z-048S032	S1268Z-048A032	32	.6667	.708
S1268Z-048S040	S1268Z-048A040	40	.8333	.875
S1268Z-048S044	S1268Z-048A044	44	.9167	.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.

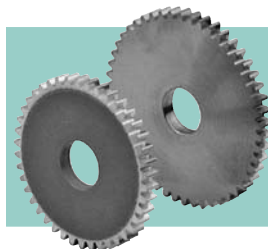
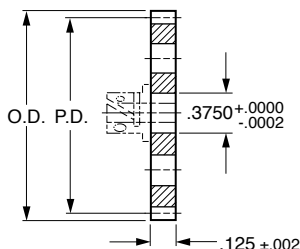
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■ AGMA Q10

■ 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-032S019	S1268Z-032A019	19	.5938	.656
S1268Z-032S020	S1268Z-032A020	20	.6250	.688
S1268Z-032S024	S1268Z-032A024	24	.7500	.813
S1268Z-032S026	S1268Z-032A026	26	.8125	.875
S1268Z-032S028	S1268Z-032A028	28	.8750	.938
S1268Z-032S030	S1268Z-032A030	30	.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-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-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

*T4 or T351 Aluminum Alloy, anodized before cutting.

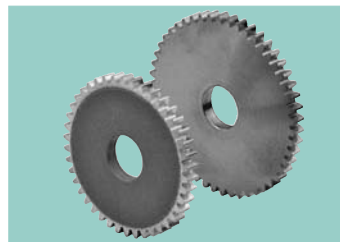
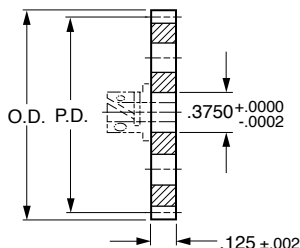
Available on special order: 14-1/2° P.A., teeth not listed, different bore size and/or material, passivation for Stainless Steel.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



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

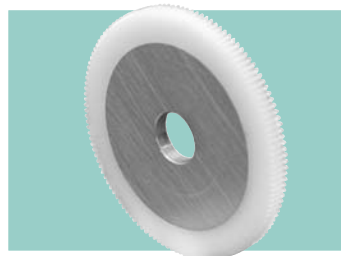
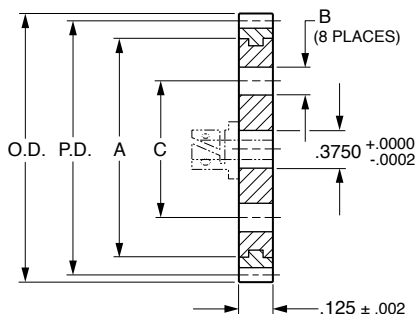
- All gears over 2-1/8 Dia. supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

S Precision Component

Catalog Number		No. of Teeth	P.D.	O.D.
303 Stainless Steel	2024 Aluminum* Anodized			
S1268Z-024S015	S1268Z-024A015	15	.6250	.708
S1268Z-024S018	S1268Z-024A018	18	.7500	.833
S1268Z-024S020	S1268Z-024A020	20	.8333	.917
S1268Z-024S021	S1268Z-024A021	21	.8750	.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.

■ AGMA Q10**■ 20° PRESSURE ANGLE****■ 1/8 FACE****■ 3/8 BORE****S** Precision Component

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	7/8		
S1268Z-072M100	100	1.3889	1.417	1-1/8	—	—
S1268Z-072M110	110	1.5278	1.556	1-1/8		
S1268Z-072M120	120	1.6667	1.694	1-3/8		
S1268Z-072M130	130	1.8056	1.833	1-3/8	—	—
S1268Z-072M140	140	1.9444	1.972	1-5/8		
S1268Z-072M160	160	2.2222	2.250	1-7/8		
S1268Z-072M180	180	2.5000	2.528	2-1/8	3/8	1-3/8
S1268Z-072M190	190	2.6389	2.667	2-3/8		
S1268Z-072M210	210	2.9167	2.944	2-5/8		

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.

Did You Know?

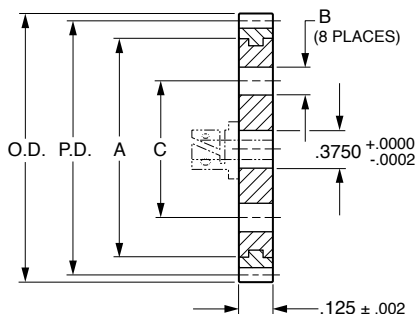
...That **SDP/SI** is well-equipped to handle the design and manufacture of parts based on customers' specifications. In most instances, we can supply a Certificate of Compliance or Material and Process Certifications. Please call, fax or e-mail your requirements to our Sales Department or Application Engineering.

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



S Precision Component

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

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-064M080	80	1.2500	1.281	7/8		
S1268Z-064M085	85	1.3281	1.359	7/8		
S1268Z-064M090	90	1.4063	1.438	1-1/8		
S1268Z-064M096	96	1.5000	1.531	1-1/8	7/32	13/16
S1268Z-064M110	110	1.7188	1.750	1-3/8		
S1268Z-064M120	120	1.8750	1.906	1-5/8		
S1268Z-064M130	130	2.0313	2.063	1-7/8	5/16	1-3/32
S1268Z-064M140	140	2.1875	2.219	1-7/8		
S1268Z-064M150	150	2.3438	2.375	2-1/8		
S1268Z-064M160	160	2.5000	2.531	2-3/8		
S1268Z-064M180	180	2.8125	2.844	2-3/8		
S1268Z-064M192	192	3.0000	3.031	2-5/8	3/8	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.

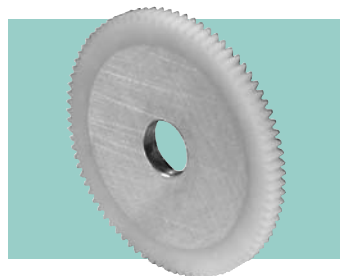
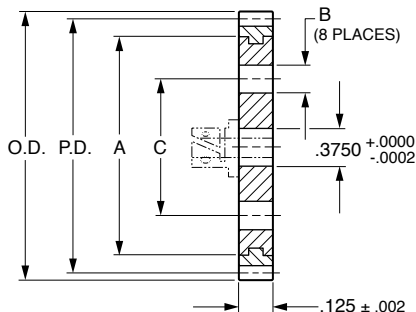
Aluminum-Acetal Gears - 48 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



S Precision Component

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	1-1/8	—	—
S1268Z-048M075	75	1.5625	1.604	1-1/8		
S1268Z-048M080	80	1.6667	1.708	1-3/8		
S1268Z-048M084	84	1.7500	1.792	1-3/8	—	—
S1268Z-048M085	85	1.7708	1.813	1-3/8	—	—
S1268Z-048M090	90	1.8750	1.917	1-5/8	7/32	13/16
S1268Z-048M092	92	1.9167	1.958	1-5/8	7/32	13/16
S1268Z-048M096	96	2.0000	2.042	1-5/8	7/32	13/16
S1268Z-048M100	100	2.0833	2.125	1-7/8	5/16	1-3/32
S1268Z-048M110	110	2.2917	2.333	1-7/8	5/16	1-3/32
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	3/8	1-3/8
S1268Z-048M140	140	2.9167	2.958	2-5/8	3/8	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.

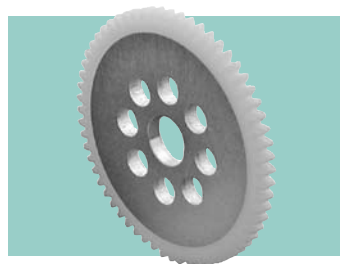
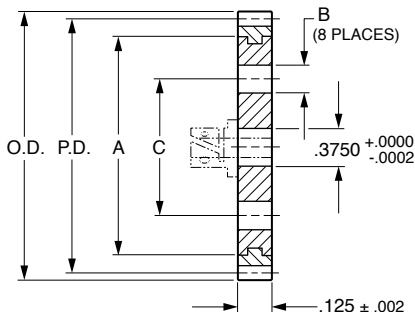
Aluminum-Acetal Gears - 32 Pitch

■ AGMA Q10

■ 20° PRESSURE ANGLE

■ 1/8 FACE

■ 3/8 BORE



S Precision Component

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

MATERIAL: Core – Aluminum 2024-T3, Chemical Filmed

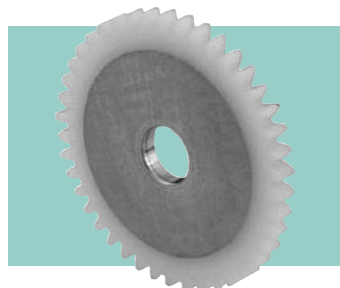
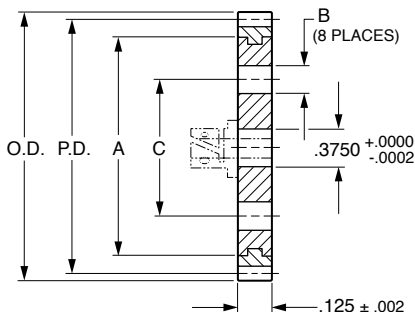
Rim – Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	A Dia.	B Dia.	C Dia.
S1268Z-032M028	28	.8750	.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	3/8	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.

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



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



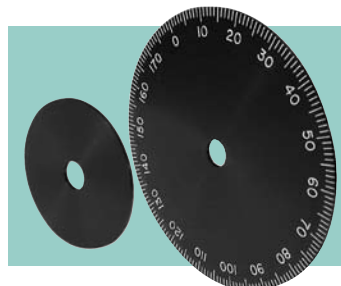
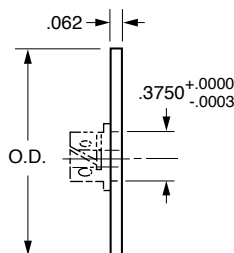
MATERIAL: Core – Aluminum 2024-T3, Chemical Filmed
 Rim – Acetal

Catalog Number	No. of Teeth	P.D.	O.D.	A Dia.	B Dia.	C Dia.
S1268Z-024M024	24	1.0000	1.083	5/8	—	—
S1268Z-024M025	25	1.0417	1.125	7/8		
S1268Z-024M030	30	1.2500	1.333	7/8		
S1268Z-024M032	32	1.3333	1.417	1-1/8		
S1268Z-024M035	35	1.4583	1.542			
S1268Z-024M036	36	1.5000	1.583	1-3/8		
S1268Z-024M040	40	1.6667	1.750			
S1268Z-024M042	42	1.7500	1.833			
S1268Z-024M048	48	2.0000	2.083	1-5/8	7/32	13/16
S1268Z-024M055	55	2.2917	2.375	2-1/8	3/8	1-3/8
S1268Z-024M060	60	2.5000	2.583	2-1/8	3/8	1-3/8
S1268Z-024M065	65	2.7083	2.792	2-3/8	3/8	1-3/8
S1268Z-024M072	72	3.0000	3.083	2-5/8		1-3/4
S1268Z-024M084	84	3.5000	3.583	3-1/8		1-3/4
S1268Z-024M096	96	4.0000	4.083	3-5/8		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.

■ CLOCKWISE

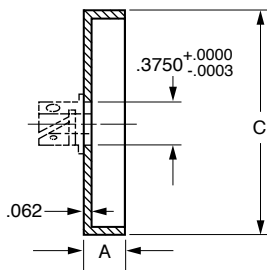
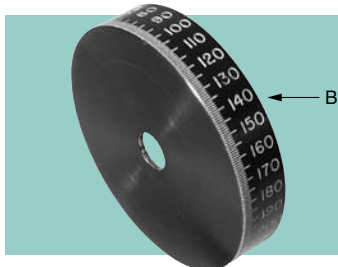
■ PRECISION LASER ENGRAVED



MATERIAL: 2024 Aluminum, Black Hard Anodized

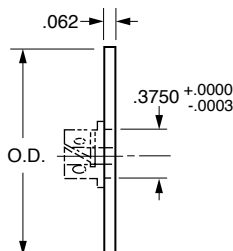
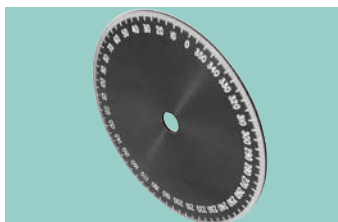
Catalog Number	O.D. +.000 -.003	Graduations	Steps in Degrees	Dial Range
S1228Y-GA-02	1.500	180	2°	0-360
S1228Y-GA-04		60	6°	0-60
S1228Y-GA-05		50	7°12'	0-50
S1228Y-GA-06		25	14°24'	0-25
S1228Y-GA-07		10	36°	0-10
S1228Y-GA-10	2.000	120	3°	0-120
S1228Y-GA-11		100	3°36'	0-100
S1228Y-GA-12		72	5°	0-72
S1228Y-GA-13		60	6°	0-60
S1228Y-GA-14		50	7°12'	0-50
S1228Y-GA-15	3.000	25	14°24'	0-25
S1228Y-GA-16		10	36°	0-10
S1228Y-GA-17		BLANK	—	—
S1228Y-GA-18		360	1°	0-360
S1228Y-GA-19		180	2°	0-360
S1228Y-GA-20	4.000	200	1°48'	0-200
S1228Y-GA-21		180	2°	0-180
S1228Y-GA-22		120	3°	0-120
S1228Y-GA-23		100	3°36'	0-100
S1228Y-GA-24		72	5°	0-72
S1228Y-GA-25	4.000	50	7°12'	0-50
S1228Y-GA-26		10	36°	0-10
S1228Y-GA-27		BLANK	—	—
S1228Y-GA-29		180	2°	0-360
S1228Y-GA-30		200	1°48'	0-200
S1228Y-GA-31	4.000	180	2°	0-180
S1228Y-GA-32		100	3°36'	0-100
S1228Y-GA-33		50	7°12'	0-50
S1228Y-GA-34		10	36°	0-10

Assembled with hubs, upon request, at nominal charge.

Precision Drum Dials**■ COUNTERCLOCKWISE****■ PRECISION LASER ENGRAVED****MATERIAL:** 2024 Aluminum, Black Hard Anodized

Catalog Number	A	C ± .005	B Graduations	Steps in Degrees	Dial Range
S5189Y-GD-2	.500	2.990	180	2°	0-360
S5189Y-GD-3		2.490	360	1°	
S5189Y-GD-4			180	2°	

Assembled with hubs, upon request, at nominal charge.

Precision Disc Dials**■ COUNTERCLOCKWISE****■ PRECISION LASER ENGRAVED****MATERIAL:** 2024 Aluminum, Black Hard Anodized

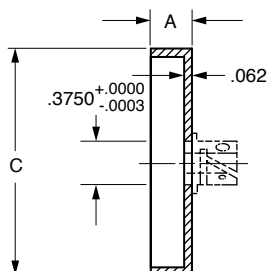
Catalog Number	O.D. +.000 -.003	Graduations	Steps in Degrees	Dial Range
S1228Y-GC-1	3.000	360	1°	0-360
S1228Y-GC-2		180	2°	0-360
S1228Y-GC-3		100	3°36'	0-100
S1228Y-GC-4	4.000	360	1°	0-360
S1228Y-GC-5		180	2°	0-360

Assembled with hubs, upon request, at nominal charge.

See Index for Hubs

■ CLOCKWISE

■ PRECISION LASER ENGRAVED

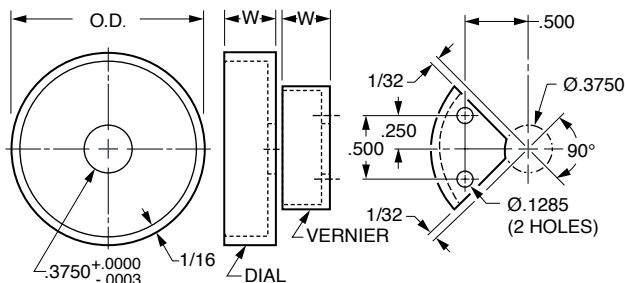


MATERIAL: 2024 Aluminum, Black Hard Anodized

Catalog Number	A	C ± .005	B Graduations	Steps in Degrees	Dial Range
S5189Y-GB-01	3/8	.990	—	—	BLANK
S5189Y-GB-02			100	3°36'	0-100
S5189Y-GB-04			—	—	BLANK
S5189Y-GB-05	3/8	1.490	60	6°	0-60
S5189Y-GB-06			100	3°36'	0-100
S5189Y-GB-07			180	2°	0-360
S5189Y-GB-08	3/8	1.990	—	—	BLANK
S5189Y-GB-09			50	7°12'	0-50
S5189Y-GB-10			25	14°24'	0-25
S5189Y-GB-11			10	36°	0-10
S5189Y-GB-12			180	2°	0-180
S5189Y-GB-13			180	2°	0-360
S5189Y-GB-14	1/2	2.490	—	—	BLANK
S5189Y-GB-15			200	1°48'	0-200
S5189Y-GB-16			180	2°	0-180
S5189Y-GB-18			360	1°	0-360
S5189Y-GB-19			100	3°36'	0-100
S5189Y-GB-20			—	—	BLANK
S5189Y-GB-21	1/2	2.990	180	2°	0-180
S5189Y-GB-22			100	3°36'	0-100
S5189Y-GB-23			10	36°	0-10
S5189Y-GB-24			360	1°	0-360
S5189Y-GB-25			180	2°	0-360

Assembled, upon request, at nominal charge.

See Index for Hubs

■ PRECISION LASER ENGRAVED**MATERIAL:** 2024 Aluminum, Black Hard Anodized

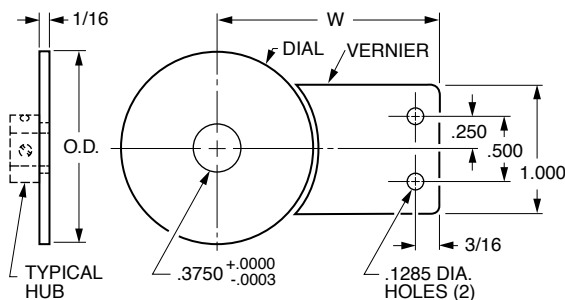
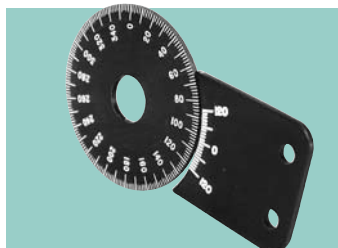
Catalog Number	O.D. $\pm .005$	W	Dial Graduations	Steps in Degrees	Dial Range	Vernier Reading
S9922Y-GJ-1 S9922Y-GJ-2	1.490 1.990	.375	180	2°	0-360	12'
S9922Y-GJ-3 S9922Y-GJ-4	2.490 2.990	.500	360	1°		6'

Assembled with hubs, upon request, at nominal charge.

Special sets available on request.

(See Index for Hubs)**Did You Know?**

...That the selection of components for this catalog was done by engineers... for engineers? It is our aim to enable the designer to spend his time designing rather than looking for components.

■ PRECISION LASER ENGRAVED**MATERIAL:** 2024 Aluminum, Black Hard Anodized

Catalog Number	O.D. +.000 -.005	W	Dial Graduations	Steps in Degrees	Dial Range	Vernier Reading
S9909Y-GH-1	1.500	1.760	180	2°	0-360	12'
S9909Y-GH-2	2.000	2.010				
S9909Y-GH-4	4.000	3.010	360	1°		6'

Assembled with hubs, upon request, at nominal charge.

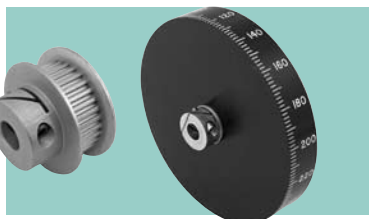
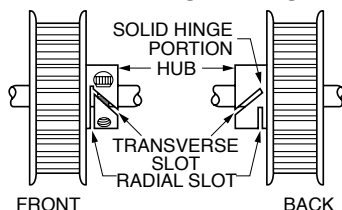
Special sets available on request.

[See Index for Hubs](#)**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.

The Better Way to Fasten Rotating Components.

Solves...Phasing, Timing, Positioning and Frequent Removal Problems



Here's How It Works!

Two slots are machined into the hub, one oriented radially, the other angularly, to create a transverse wedge which remains attached to the solid portion of the hub on one side. The resultant cantilevered clamping section has a tapped hole to accept a cap screw which passes through a clearance hole in the solid portion of the hub, and into a threaded hole in the transverse wedge section. As the screw is tightened, the cantilevered section clamps the shaft securely. The screw can be tightened and released repeatedly without marring the shaft or affecting its torque transmitting abilities.

Proved Most Effective

For precision application – Lab tests proved Fairloc® to be superior to all other comparable fasteners. For high torque application – Torques up to 400 lb.in. are obtained with a 5/8" bore Fairloc® hub.

• Full Use Of The Bore

Gives maximum support to the component, reduces wobble or misalignment.

• Easy Adjustment

Fairloc® replaces set screws and clamps, eliminates marred shafts; components can be repositioned with a single hex key adjustment.

• Compact, Self-Contained Design

When available space or access is limited, Fairloc's® small hub envelope is a distinct advantage.

• Very High Reliability

Typical Application

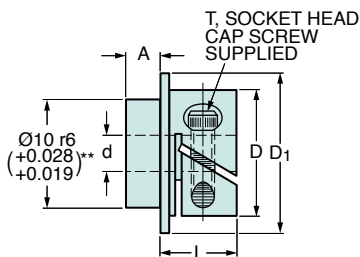
Areas For Fairloc® Include:

Computer Tape Drives, Aerospace Components, Aircraft Instrumentation, Aircraft Fuel Control Systems, Machine Tools, N/C Machines, Computer Input / Output Systems, Military Fire Control Systems, Medical Equipment, Business Machines, Optical Equipment, Power Drives.

FASTENER SELECTOR GUIDE						Legend
Fastening Method	A	B	C	D	E	
Clamps	Yes	No	No	Yes	No	A – Shaft remains smooth B – Self-contained (no additional inventory) C – Component is fully supported D – Easy adjustment E – Can be pinned if desired
*Fairloc®	Yes	Yes	Yes	Yes	Yes	
Keys	No	No	No	No	No	
Pins	No	No	No	No	Yes	
Set Screws	No	No	No	No	Yes	

* Patented

® Registered trademark



NOTE: d bore and mounting diameter are concentric to 0.005 mm.



S Precision Component

MATERIAL: 303 Stainless Steel

Catalog Number	A	d* Bore H7	L	D	T	D ₁	Clear. Radius
S2F0MYM016025	1.6	2.5	8.5	11	M2	14	6.4
S2F0MYM032025	3.2						
S2F0MYM016030	1.6	3					
S2F0MYM032030	3.2						
S2F0MYM060030	6						
S2F0MYM080030	8						
S2F0MYM100030	10						
S2F0MYM016040	1.6	4	8.5	14	M2.5	17	8.3
S2F0MYM032040	3.2						
S2F0MYM060040	6						
S2F0MYM080040	8						
S2F0MYM100040	10						
S2F0MYM016050	1.6	5					
S2F0MYM032050	3.2						
S2F0MYM048050	4.8						
S2F0MYM050050	5						
S2F0MYM060050	6						
S2F0MYM080050	8	6					
S2F0MYM100050	10						
S2F0MYM016060	1.6		9.8	17	M3	17	11.1
S2F0MYM032060	3.2						
S2F0MYM048060	4.8						
S2F0MYM050060	5						
S2F0MYM060060	6						
S2F0MYM080060	8						
S2F0MYM100060	10						
S2F0MYM016080	1.6	8					
S2F0MYM032080	3.2						
S2F0MYM048080	4.8						
S2F0MYM050080	5						

*Bore Tolerance: 2.5 & 3 mm + 0.01
4, 5 & 6 mm + 0.012
8 mm + 0.015

**To provide press fit, use tolerance according to H7 for the mating part bore diameter.

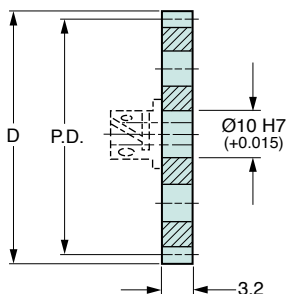
NOTE: Fairloc® hubs require controlled shaft tolerances. Suggested tolerance according to g6, h6 or h7.

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 3.2 mm FACE

■ 10 mm BORE



S Precision Component

- All gears over 54 mm diameter supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	D
303 Stainless Steel	2024 Aluminum* Anodized			
S12S05M030N0310	S12A05M030N0310	30	15	16
S12S05M032N0310	S12A05M032N0310	32	16	17
S12S05M048N0310	S12A05M048N0310	48	24	25
S12S05M054N0310	S12A05M054N0310	54	27	28
S12S05M060N0310	S12A05M060N0310	60	30	31
S12S05M065N0310	S12A05M065N0310	65	32.5	33.5
S12S05M070N0310	S12A05M070N0310	70	35	36
S12S05M080N0310	S12A05M080N0310	80	40	41
S12S05M096N0310	S12A05M096N0310	96	48	49
S12S05M105N0310	S12A05M105N0310	105	52.5	53.5
S12S05M120N0310	S12A05M120N0310	120	60	61
S12S05M130N0310	S12A05M130N0310	130	65	66
S12S05M150N0310	S12A05M150N0310	150	75	76
S12S05M180N0310	S12A05M180N0310	180	90	91
S12S05M192N0310	S12A05M192N0310	192	96	97
S12S05M198N0310	S12A05M198N0310	198	99	100

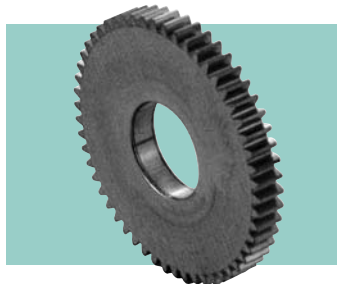
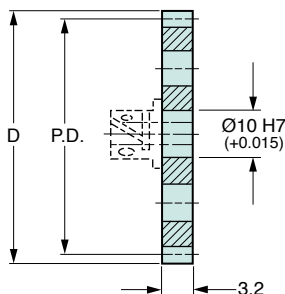
*T4 or T351 Aluminum Alloy, anodized before cutting.

■ ISO CLASS 7

■ 20° PRESSURE ANGLE

■ 3.2 mm FACE

■ 10 mm BORE



S Precision Component

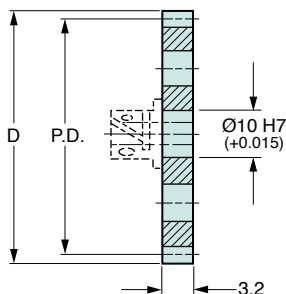
- All gears over 54 mm diameter supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

Catalog Number		No. of Teeth	P.D.	D
303 Stainless Steel	2024 Aluminum* Anodized			
S12S08M020N0310	S12A08M020N0310	20	16	17.6
S12S08M024N0310	S12A08M024N0310	24	19.2	20.8
S12S08M028N0310	S12A08M028N0310	28	22.4	24
S12S08M032N0310	S12A08M032N0310	32	25.6	27.2
S12S08M042N0310	S12A08M042N0310	42	33.6	35.2
S12S08M048N0310	S12A08M048N0310	48	38.4	40
S12S08M056N0310	S12A08M056N0310	56	44.8	46.4
S12S08M064N0310	S12A08M064N0310	64	51.2	52.8
S12S08M066N0310	S12A08M066N0310	66	52.8	54.4
S12S08M070N0310	S12A08M070N0310	70	56	57.6
S12S08M072N0310	S12A08M072N0310	72	57.6	59.2
S12S08M080N0310	S12A08M080N0310	80	64	65.6
S12S08M096N0310	S12A08M096N0310	96	76.8	78.4
S12S08M120N0310	S12A08M120N0310	120	96	97.6
S12S08M128N0310	S12A08M128N0310	128	102.4	104

*T4 or T351 Aluminum Alloy, anodized before cutting.

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

■ ISO CLASS 7 ■ 20° PRESSURE ANGLE ■ 3.2 mm FACE ■ 10 mm BORE



S Precision Component

- All gears over 54 mm diameter supplied with lightening holes.
- See index for hubs. Assembled upon request at nominal charge.

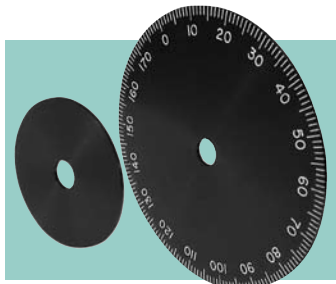
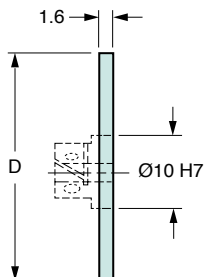
Catalog Number		No. of Teeth	P.D.	D
303 Stainless Steel	2024 Aluminum* Anodized			
S12S10M015N0310	S12A10M015N0310	15	15	17
S12S10M016N0310	S12A10M016N0310	16	16	18
S12S10M020N0310	S12A10M020N0310	20	20	22
S12S10M021N0310	S12A10M021N0310	21	21	23
S12S10M024N0310	S12A10M024N0310	24	24	26
S12S10M025N0310	S12A10M025N0310	25	25	27
S12S10M026N0310	S12A10M026N0310	26	26	28
S12S10M030N0310	S12A10M030N0310	30	30	32
S12S10M032N0310	S12A10M032N0310	32	32	34
S12S10M040N0310	S12A10M040N0310	40	40	42
S12S10M042N0310	S12A10M042N0310	42	42	44
S12S10M045N0310	S12A10M045N0310	45	45	47
S12S10M046N0310	S12A10M046N0310	46	46	48
S12S10M048N0310	S12A10M048N0310	48	48	50
S12S10M050N0310	S12A10M050N0310	50	50	52
S12S10M052N0310	S12A10M052N0310	52	52	54
S12S10M056N0310	S12A10M056N0310	56	56	58
S12S10M060N0310	S12A10M060N0310	60	60	62
S12S10M099N0310	S12A10M099N0310	99	99	101

*T4 or T351 Aluminum Alloy, anodized before cutting.

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

■ CLOCKWISE

■ PRECISION LASER ENGRAVED



MATERIAL: 2024 Aluminum, Black Hard Anodized

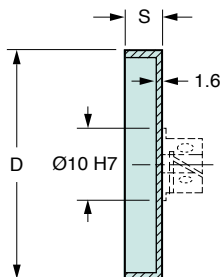
Catalog Number	D h9	No. of Graduations	Steps in Degrees	Dial Range
S12BM1M038180	38	180	2°	0 ... 360
S12BM1M038060		60	6°	0 ... 60
S12BM1M038050		50	7°12'	0 ... 50
S12BM1M038025		25	14°24'	0 ... 25
S12BM1M038010		10	36°	0 ... 10
S12BM1M051000		BLANK	—	—
S12BM1M051180	51	180	2°	0 ... 360
S12BM1M051120		120	3°	0 ... 120
S12BM1M051060		60	6°	0 ... 60
S12BM1M051025		25	14°24'	0 ... 25
S12BM1M076000		BLANK	—	—
S12BM1M076360	76	360	1°	0 ... 360
S12BM1M076180		180	2°	0 ... 360
S12BM1M076200		200	1°48'	0 ... 200
S12BM1M076180A		180	2°	0 ... 180
S12BM1M076120		120	3°	0 ... 120
S12BM1M076100		100	3°36'	0 ... 100
S12BM1M076072		72	5°	0 ... 72
S12BM1M076050		50	7°12'	0 ... 50
S12BM1M076010		10	36°	0 ... 10
S12BM1M102000		BLANK	—	—
S12BM1M102360	101.5	360	1°	0 ... 360
S12BM1M102180		180	2°	0 ... 360
S12BM1M102200		200	1°48'	0 ... 200
S12BM1M102180A		180	2°	0 ... 180
S12BM1M102100		100	3°36'	0 ... 100
S12BM1M100010		10	36°	0 ... 10

Assembled with hubs upon request at nominal charge.

See Index for Hubs

■ CLOCKWISE

■ PRECISION LASER ENGRAVED



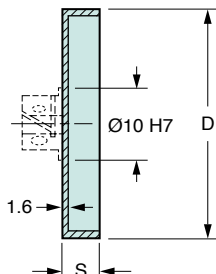
MATERIAL: 2024 Aluminum, Black Hard Anodized

Catalog Number	S	D h12	No. of Graduations	Steps in Degrees	Dial Range
S51BM1M025000	10	25	BLANK	—	—
S51BM1M025100			100	3°36'	0 ... 100
S51BM1M025180			180	2°	0 ... 360
S51BM1M038000	10	38	BLANK	—	—
S51BM1M038060			60	6°	0 ... 60
S51BM1M038100			100	3°36'	0 ... 100
S51BM1M038180			180	2°	0 ... 360
S51BM1M051000	10	50.5	BLANK	—	—
S51BM1M051050			50	7°12'	0 ... 50
S51BM1M051025			25	14°24'	0 ... 25
S51BM1M051010			10	36°	0 ... 10
S51BM1M051180			180	2°	0 ... 180
S51BM1M051180A			180	2°	0 ... 360
S51BM1M063000	12.5	63	BLANK	—	—
S51BM1M063200			200	1°48'	0 ... 200
S51BM1M063180			180	2°	0 ... 180
S51BM1M063360			360	1°	0 ... 360
S51BM1M063100			100	3°36'	0 ... 100
S51BM1M076000	12.5	76	BLANK	—	—
S51BM1M076180			180	2°	0 ... 180
S51BM1M076100			100	3°36'	0 ... 100
S51BM1M076010			10	36°	0 ... 10
S51BM1M076360			360	1°	0 ... 360
S51BM1M076180A			180	2°	0 ... 360

Assembled with hubs upon request at nominal charge.

See Index for Hubs

■ COUNTERCLOCKWISE



■ PRECISION LASER ENGRAVED

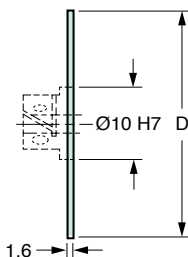


MATERIAL: 2024 Aluminum, Black Hard Anodized

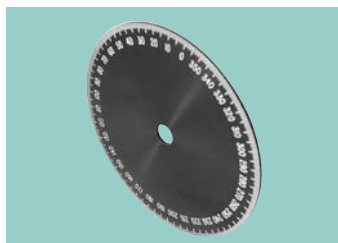
Catalog Number	S	D	No. of Graduations	Steps in Degrees	Dial Range
S51BM2M076360	12.5	76	360	1°	0 ... 360
S51BM2M076180		180	180	2°	
S51BM2M063180		63	180	2°	

NOTE: Assembled with hubs upon request at nominal charge.

■ COUNTERCLOCKWISE



■ PRECISION LASER ENGRAVED

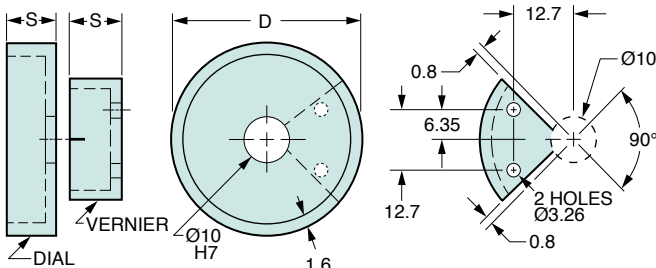


MATERIAL: 2024 Aluminum, Black Hard Anodized

Catalog Number	D h9	No. of Graduations	Steps in Degrees	Dial Range
S12BM2M076360	76	360	1°	0 ... 360
S12BM2M076180		180	2°	0 ... 360
S12BM2M076100		100	3°36'	0 ... 100
S12BM2M102360	101.5	360	1°	0 ... 360
S12BM2M102180		180	2°	0 ... 360

NOTE: Assembled with hubs upon request at nominal charge.

■ PRECISION LASER ENGRAVED



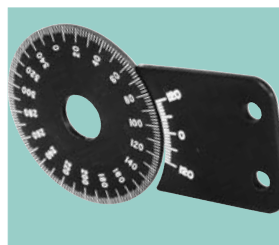
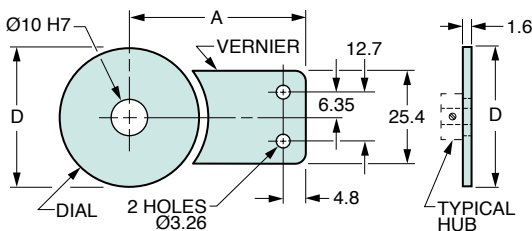
The projections shown are per ISO convention.

MATERIAL: 2024 Aluminum, Black Hard Anodized

Catalog Number	D h12	S	No. of Dial Graduations	Steps in Degrees	Dial Range	Vernier Reading
S9922YM038180	38	10	180	2°	0 ... 360	12 arc min.
S9922YM050180	50.5					12 arc min.
S9922YM063360	63	12.5	360	1°		6 arc min.
S9922YM076360	76					6 arc min.

Other sets available on special order.

■ PRECISION LASER ENGRAVED



The projections shown are per ISO convention.

MATERIAL: 2024 Aluminum, Black Hard Anodized

Catalog Number	D h10	A	No. of Dial Graduations	Steps in Degrees	Dial Range	Vernier Reading
S9909YM038180	38	45	180	2°	0 ... 360	12 arc min.
S9909YM051180	51	50				12 arc min.
S9909YM102360	101.5	75	360	1°		6 arc min.

Other sets available on special order.

Catalog Item	Page	Catalog Item	Page
COUPLINGS		GEARS, WITH FAIRLOC® HUBS (continued)	
Bellows		Spur Gears, Stainless Steel	
Inch	14	24 Pitch	44
Metric	15	32 Pitch	43
Neo-Flex, Short		48 Pitch	42
Inch	16	Module 0.5	45
Metric	17	Module 0.8	46
Neo-Flex, Long		Module 1	47
Inch	18	Spur, Acetal with Stainless Steel Hubs	
Metric	19	24 Pitch	52
Rigid, Stainless Steel		32 Pitch	51
Inch	20	48 Pitch	50
Metric	21	64 Pitch	49
		72 Pitch	48
		Module 0.5	53
		Module 0.8	54
		Module 1	56
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DRUM DIALS - See HUBS			
FAIRLOC® TECHNICAL DATA		HUBS, Gear & Dial Hubs	
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FAIRLOC® - Advantages of Integral Fastener	67	<i>Components Available For Fairloc® Hub Assembly:</i>	
GEARS, HUBLESS - See HUBS		TO INCH HUBS	
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Anti-Backlash		Clockwise	82
48 Pitch	66	Counterclockwise	83
64 Pitch	65	B) DRUM DIALS	
72 Pitch	63	Clockwise	84
96 Pitch	60	Counterclockwise	83
Mini-Lash		C) VERNIER AND DISC	
64 Pitch	64	Dial Set	86
72 Pitch	62	D) VERNIER AND DRUM	
80 Pitch	61	Dial Set	85
96 Pitch	59	E) GEARS	
120 Pitch	58	Aluminum Acetal, Hubless	
		24 Pitch	81
		32 Pitch	80
		48 Pitch	79