

Stainless Steel Power Transmission Products Gear Drives, Motors, Bearings & Couplings



**Now
Available
in IP69K**

The original
Domed Crown™
Design



**REDUCER
EXPRESS**

**SAME DAY
GUARANTEED
SHIPMENT**

 **Boston Gear®**
Altra Industrial Motion

BOSTON GEAR PROVIDES POWER TRANSMISSION SOLUTIONS FOR THE FOOD AND BEVERAGE INDUSTRY

Tightened federal regulations regarding food safety and hygiene in food processing and beverage industries has led producers to continue to adapt their equipment to meet those changing requirements.

The areas in production facilities where drive systems are located are often the areas that have the most stringent requirements for hygiene and sanitation, due to their proximity to the food product. The key to food safety is prevention of microbial contamination and bacteria growth. Equipment in these areas needs to be resistant to alkali or acid based cleaning agents and disinfectants.



For installations where the drive system is located at or above the food product, there is a higher risk of product contamination due to rigorous cleaning standards. For these installations special attention must be given to drive design & materials, so that bacterial growth on surfaces will be avoided. Drive systems with the most extreme protection are often utilized in these applications. Stainless steel exterior materials, rounded edges, domed crowns, and enhanced sealing are critical design features that will ensure long equipment life, the sustainability of your process and the safety of your product.

Some producers use highly caustic wash down solutions; others use high-pressure hot water. Equipment can also be exposed to process by-products such as sugar, seasonings, brines, or animal blood. Whatever challenges the integrity of your drive system, Altra has a solution for you. The family of gearing & motor products manufactured by Boston Gear provides the level of protection needed for the harsh elements increasingly used in the prevention of microbial contamination and bacterial growth in hygiene sensitive environments.

www.AltraFoodandBeverage.com



*Scan to visit Altra's
Food and Beverage
Website*



*Scan to visit Boston
Gear's Stainless
Steel Website*

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Expanded Stainless Steel Offering

NEW



3 New Sizes of SS700 Series - Worm Gear

- 713, 715 and 724 center distances now available
- SSHF713 redesigned to include hollow bores up to 1.00"

All SS700 Series Now Available With QC Option

- QC Quick-Connect motor mount option
- Compact coupling for quick and easy motor disassembly



3 New Sizes of SS2000 Series - Helical Inline

- 2030, 2050 and 2070 frame sizes with full compliment of mounting options
- Output torque to 7500 lbf-in

Larger AC Motors Now Available

- 5, 7.5 and 10 HP TEFC motor sizes
- 208-230/460 -3-60 VAC, 1800 RPM Nominal



2 New Styles of SS Mounted Bearings

- Offering now includes 3-bolt drop bearing and wide slot take-up styles
- Expanded range of bore sizes

New Coupling Bore Sizes, Universal Joints and Shaft Accessories

- More complete offering of shaft accessories



SS700 Series Worm Gear Speed Reducers **A1**

Trusted Worm Gearing with a Revolutionary Smooth Exterior

IP69K

When ordered with high pressure washdown seal option*

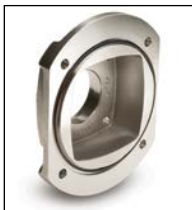
NSF International Certified



Laser marked nameplate provides worry-free part identification while maintaining a smooth, unetched surface



Metal detectable covers for all hardware and counter bored holes prevent particle accumulation and pooling fluids to optimize washdown efficiency



Optional Stainless Steel output flange mounting



Two-piece mounting base maintains standard 700 Series footprint and enables the unit to be washed down without trapping foreign matter under the reducer



Available in hollow and solid output shafts

303 Stainless Steel output shafts

H1 Food grade Klubersynth UH1 6-460 maximizes torque capacity and efficiency



Large oil reservoir provides highly efficient heat dissipation and lubrication for longer operating life. Up to 20% more oil capacity than standard 700 series.

High strength bronze worm gear is straddle mounted between heavy-duty tapered roller bearings to increase thrust and overhung load capacities.

Polished matte finish maintains clean appearance throughout operation

The Original Domed Crown™ rounded housing prevents foreign matter adherence and fluid accumulation

316 Stainless Steel housing, motor flange and carrier to withstand tough washdown environments



Quill-Style Motor Mount or QC Quick-Connect Coupling Motor Mount Available



Flange features (2) jackbolt holes for easy motor dismount

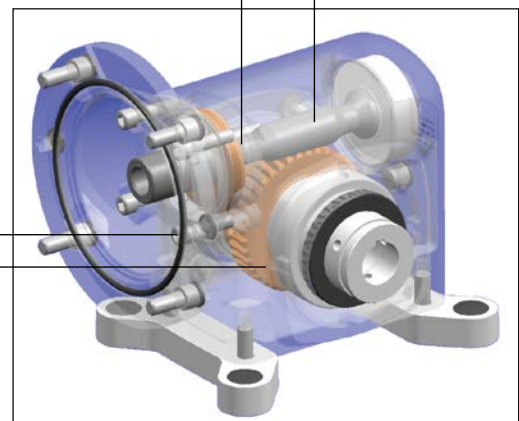
Motor frame sizes 56C to 180TC

Optional high pressure washdown seal available*

Motor flange design incorporates an O-ring to minimize ingress of particles or fluids

Integral input worm and shaft design made from high strength case hardened alloy steel

High pressure angle and proprietary polishing on worm provides greater operating efficiency



A1 SS700 Series Worm Gear Speed Reducers

Ordering Information

Single Reduction Worm Speed Reducer

Example: **SSHF732B-30KT-B7-HS1-P20-KUTFSS-3**

SS	H	F	7	32	B	-	30	K
Style Blank – Solid Output Shaft H – <i>BostMount</i> Hollow Output	Quill Style F – Quill Style Motor Flange QC – Quick Connect Motor Flange (Close Coupled)	700 Series	Center Distance (Inches) 13 – 1.33 15 – 1.54 18 – 1.75 21 – 2.06 24 – 2.38 26 – 2.62 32 – 3.25	Base Blank – No Base B – Horizontal Base V – Output Flange - Right Mount W – Output Flange - Left Mount	Reduction Ratio To 1 5 10 15 20 25 30 40 50 60 80 100	Lubrication Blank – No Lubrication K – Klubersynth UH1-6-460 H1 Food-Grade		
SS – Stainless Steel Material								

Double Reduction Worm - Planetary Speed Reducer

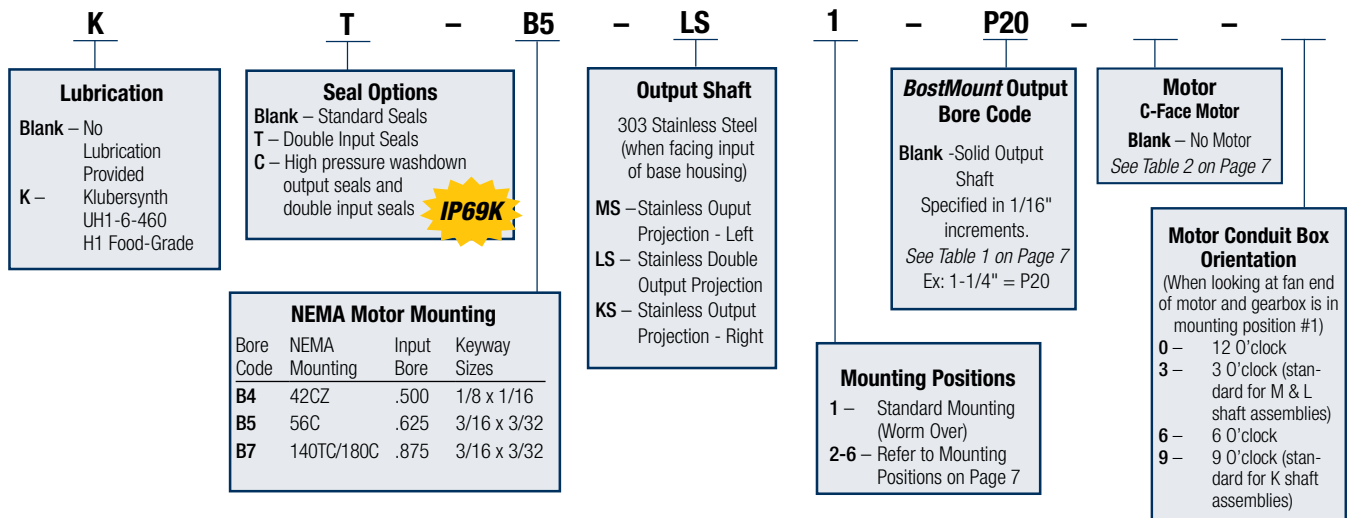
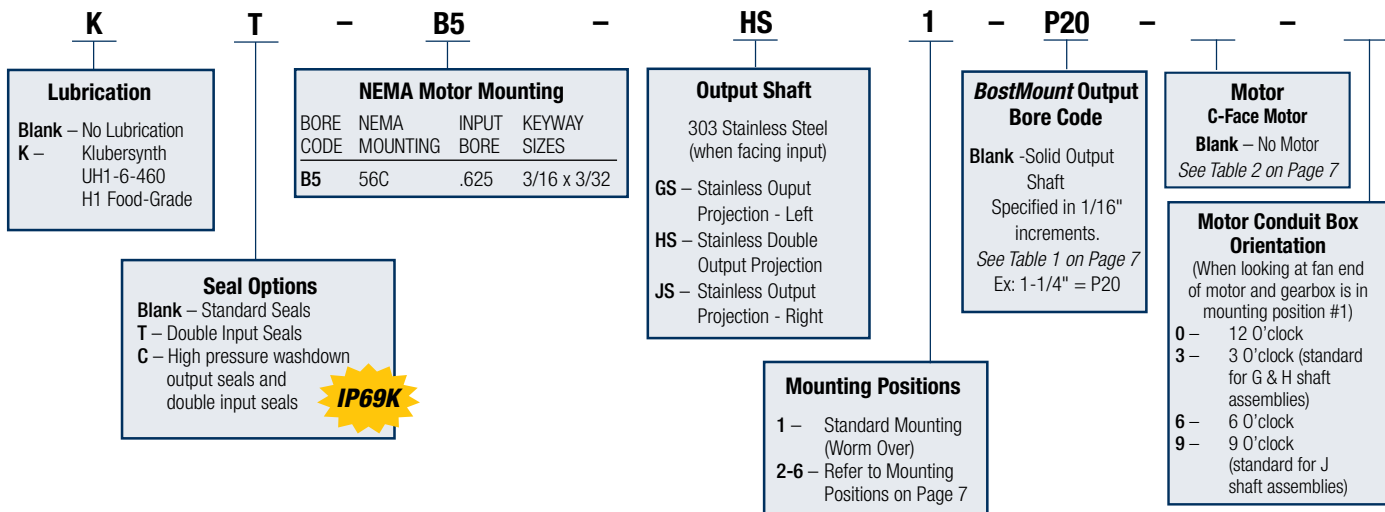
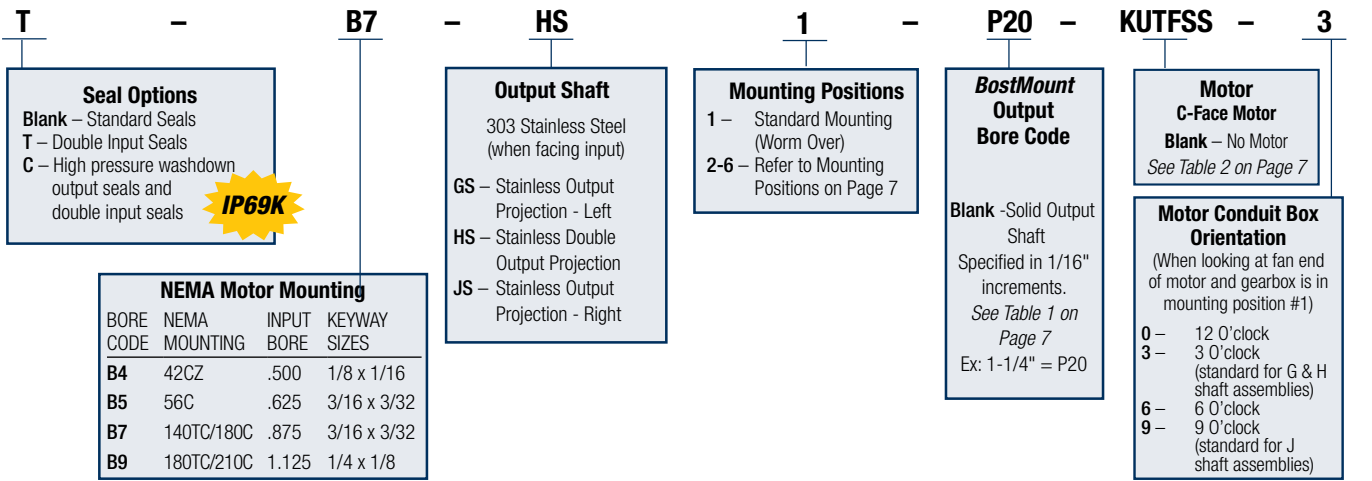
Example: **SSHFWP732B-300KT-B5-HS1-P20**

SS	H	F	WP	7	32	B	-	300
	Style Blank – Solid Output Shaft H – <i>BestMount</i> Hollow Output	F – Quill Style Motor Flange QC – Quick Connect Motor Flange (Close Coupled)	Planetary Multiplier	700 Series	Center Distance 13 – 1.33 15 – 1.54 18 – 1.75 21 – 2.06 24 – 2.38 26 – 2.62 32 – 3.25	Base Blank – No Base B – Horizontal Base V – Output Flange - Right Mount W – Output Flange - Left Mount		Reduction Ratio To 1 75 100 150 200 250 300 400 500
SS – Stainless Steel Material								

Double Reduction Worm - Worm Speed Reducer

Example: **SSHFWB732B-3600KT-B5-LS1-P20**

SS	H	F	WB	7	32	B	-	3600
	Style Blank – Solid Output Shaft H – <i>BestMount</i> Hollow Output	F – Quill Style Motor Flange QC – Quick Connect Motor Flange (Close Coupled)	Input & Output Style WB – Double Reduction Parallel Shafts WD – Double Reduction Right Angle Shafts	700 Series	Center Distance (Inches) 13 – 1.33 18 – 1.75 21 – 2.06 26 – 2.62 32 – 3.25	Base Blank – No Base B – Horizontal Base V – Output Flange - Right Mount W – Output Flange - Left Mount		Reduction Ratio To 1 100 150 200 300 400 600 900 1200 1800 2000 2400 3000 3600
SS – Stainless Steel Material								



A1 SS700 Series Worm Gear Speed Reducers

Ordering Information

Horizontal Base Kits for SS700 Series

(If ordered separately)

Size	Kit
713	J00877 XSS713-11H-BK
715	J00878 XSS715-11H-BK
718	J00304 XSS718-11H-BK
721	J00305 XSS721-11H-BK
724	J00879 XSS724-11H-BK
726	J00306 XSS726-11H-BK
732	J00307 XSS732-11H-BK

Kit includes (2) feet, (4) attaching bolts and (4) hardware covers.

Table 1: Hollow Output Shaft Bore Codes

Fraction Size	Output Bore Code	713	715	718	721	724	726	732	Decimal Size*	Key Size†
5/8	P10	S							.6250	.187 x .125 x 1.00
3/4	P12	•	•	•	•	•			.7500	.187 x .156 x 1.00
7/8	P14	•	•	•	•	•			.8750	.187 x .156 x 1.00
15/16	P15	•	•	•	•	•	•		.9375	.25 x .218 x 1.37
1	P16	S	S	S	S	S	•		1.0000	.25 x .218 x 1.37
1-1/8	P18				•	•	•		1.1250	.25 x .218 x 1.37
1-3/16	P19				S	S	•	•	1.1875	.25 x .218 x 1.37
1-1/4	P20				S	S	S	•	1.2500	.25 x .218 x 1.37
1-7/16	P23				S	S	S	S	1.4375	.375 x .312 x 1.75
1-1/2	P24						S	S	1.5000	.375 x .312 x 1.75
1-15/16	P31						•	S	1.9375	.50 x .375 x 2.00
2	P32							•	2.0000	.50 x .375 x 2.00
2 3/16	P35							•	2.1875	.50 x .375 x 2.00

*Bore tolerance +.0015 / - .0000

S Standard Bore – Included in Express Program

• Optional Bore

† Rectangular key is provided with reducer to fit hollow shaft. Drive shaft requires standard width and depth keyway.

Note: For all other bore sizes, contact factory.

Replacement Hardware Covers

Size	Housing Oil Plugs	Bearing Carrier	Mounting Feet	Output Flange	Motor Flange B5/B7 (56C/140TC)	Motor Flange B9 (180TC)
713	J00195	N/A	N/A	J00195	J00195	J00195 & J00196
715	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
718	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
721	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
724	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
726	J00195	J00195	J00196	J00195	J00195	J00195 & J00196
732	J00195	J00195	J00196	J00196	J00195	J00195 & J00196

J00195 has nominal O.D of 0.605"

J00196 has nominal O.D. of 0.812"

Material: Stainless Steel disk (metal detectable) with over-molded rubber

Table 2: Stainless Steel AC Motors

Part #	HP	Type	Frame Size
FUT-SS	0.5	TENV	56C
GUT-SS	0.75	TENV	56C
HUT5/8-SS	1.0	TENV	56C
HUTF5/8-SS	1.0	TEFC	56C
HUT-SS	1.0	TENV	140TC
HUTF-SS	1.0	TEFC	140TC
JUTF-SS	1.5	TEFC	140TC
KUTF-SS	2.0	TEFC	140TC
LUTF-SS	3.0	TEFC	180TC
MUTF-SS	5.0	TEFC	180TC

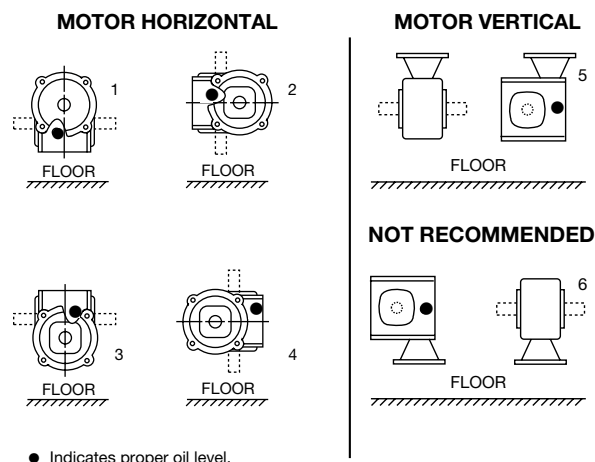
TENV = Totally enclosed, non-ventilated

TEFC = Totally enclosed, fan-cooled

Mounting Positions & Lubrication

Oil Levels For Typical Mounting Positions

(Examples shown for single-reduction models only)



NOTE: Double input seals are required for all positions except #1 and #5.

Enclosed Worm Gear Reducers Lubricant Available from Boston Gear

Ambient (Room) Temp.	Recommended Oil (or equivalent)	Viscosity Range SUS @ 100°F	ISO Viscosity Grade No.	Klubersynth UH1 6-460 Qt. Part No.
-20° to 225°F** (-29° to 107°C)	Klubersynth* UH1 6-460 Synthetic H1 Food Grade Oil	1950/2500	460	65159

* Synthetic recommendation is exclusively Klubersynth UH1 6-460, other lubricants will reduce performance ratings.

** The Klubersynth UH1 6-460 lubricant will perform at temperatures considerably higher than 225°F. However, the factory should always be consulted prior to operating at higher temperatures, as damage may occur to oil seals and other components.

Oil Capacity in Fluid Ounces

Unit Size	Positions				
	1	2	3	4	5 & 6
713	3.2	3.2	4.8	3.2	3.2
715	11.2	13.6	17.6	13.6	13.6
718	14.4	17.6	20.8	17.6	17.6
721	17.6	20.8	22.4	20.8	20.8
724	21.0	22.5	25.5	22.5	22.5
726	37.0	37.0	41.5	37.0	37.0
732	81.5	85.0	93.0	85.0	85.0

Double reduction stainless gearboxes require the primary and secondary boxes to be filled independently to their respective mounting position.

Ratios and Performance

Single Reduction

Series Size			713			715			718			721			724			726			732		
Ratio	Input RPM	Output RPM	Input HP	Output Torque		Input HP	Output Torque		Input HP	Output Torque		Input HP	Output Torque		Input HP	Output Torque		Input HP	Output Torque		Input HP	Output Torque	
				HP	(in-lbs)		HP	(in-lbs)		HP	(in-lbs)		HP	(in-lbs)		HP	(in-lbs)		HP	(in-lbs)		HP	(in-lbs)
5	1750	350	1.39	1.31	235	1.72	1.62	291	2.55	2.40	432	3.66	3.44	620	4.94	4.65	838	6.11	5.74	1034	10.05	9.54	1716
	1150	230	0.84	0.73	200	1.15	1.04	285	1.42	1.28	350	2.33	2.10	575	3.05	2.74	750	4.05	3.64	1000	8.43	7.91	2165
	690	138	0.50	0.45	205	0.80	0.72	330	0.97	0.87	400	1.64	1.47	670	2.25	2.01	920	3.04	2.74	1250	6.53	6.02	2749
	100	20	0.09	0.08	240	0.14	0.12	370	0.17	0.14	460	0.30	0.26	820	0.43	0.38	1200	0.58	0.51	1600	1.38	1.19	3735
10	1750	175	0.86	0.78	281	1.20	1.10	397	1.61	1.49	536	2.34	2.19	789	3.18	2.97	1069	3.94	3.74	1345	6.22	5.85	2106
	1150	115	0.51	0.44	243	0.73	0.64	350	0.98	0.87	480	1.49	1.32	725	2.09	1.87	1025	2.82	2.54	1390	4.41	3.92	2150
	690	69	0.33	0.29	266	0.47	0.42	384	0.66	0.58	534	1.00	0.89	814	1.46	1.31	1200	1.97	1.75	1600	3.17	2.85	2600
	100	10	0.06	0.05	296	0.09	0.07	432	0.12	0.10	610	0.19	0.15	968	0.27	0.23	1430	0.37	0.31	1960	0.62	0.52	3300
15	1750	116.7	0.66	0.58	305	0.91	0.79	428	1.13	1.02	552	1.72	1.56	840	2.34	2.15	1159	2.95	2.71	1465	4.65	4.34	2344
	1150	76.7	0.37	0.32	262	0.53	0.46	376	0.67	0.57	472	1.06	0.91	752	1.51	1.29	1060	2.01	1.73	1425	3.15	2.74	2250
	690	46	0.26	0.21	288	0.36	0.30	415	0.46	0.39	534	0.72	0.61	832	1.05	0.90	1239	1.41	1.22	1675	2.35	2.04	2800
	100	6.7	0.05	0.03	322	0.07	0.05	468	0.09	0.06	597	0.13	0.10	968	0.19	0.15	1463	0.28	0.22	2057	0.48	0.39	3700
20	1750	87.5	0.52	0.43	308	0.72	0.60	435	0.97	0.82	590	1.40	1.24	892	1.95	1.71	1233	2.34	2.06	1483	3.71	3.35	2413
	1150	57.5	0.29	0.24	265	0.43	0.35	380	0.58	0.48	525	0.86	0.72	782	1.27	1.06	1160	1.63	1.36	1500	2.77	2.37	2600
	690	34.5	0.19	0.16	286	0.28	0.23	420	0.38	0.32	580	0.57	0.48	875	0.83	0.70	1280	1.11	0.94	1725	1.99	1.70	3100
	100	5	0.04	0.03	330	0.06	0.04	485	0.08	0.06	690	0.11	0.08	1018	0.17	0.12	1550	0.20	0.16	2050	0.41	0.30	3846
25	1750	70	0.43	0.34	307	0.60	0.49	437	0.76	0.64	574	1.16	0.97	875	1.55	1.33	1199	1.94	1.68	1514	3.08	2.71	2443
	1150	46	0.24	0.19	260	0.35	0.27	375	0.48	0.36	500	0.72	0.58	790	1.03	0.84	1150	1.31	1.11	1525	2.29	1.90	2600
	690	27.6	0.15	0.12	280	0.22	0.18	410	0.30	0.24	540	0.47	0.38	875	0.69	0.56	1280	0.93	0.77	1750	1.51	1.27	2900
	100	4	0.03	0.02	310	0.04	0.03	451	0.06	0.04	660	0.10	0.07	975	0.14	0.10	1500	0.18	0.13	2075	0.31	0.22	3500
30	1750	58.3	0.39	0.29	311	0.54	0.41	446	0.65	0.53	573	0.99	0.81	871	1.33	1.11	1200	1.68	1.41	1521	2.64	2.27	2456
	1150	38.3	0.21	0.16	270	0.31	0.23	388	0.40	0.32	530	0.62	0.48	795	0.89	0.70	1170	1.20	0.96	1575	2.80	2.23	2675
	690	23	0.14	0.11	300	0.20	0.17	460	0.29	0.22	600	0.41	0.32	880	0.60	0.47	1300	0.81	0.65	1790	1.41	1.16	3200
	100	3.3	0.03	0.02	340	0.04	0.03	496	0.06	0.04	710	0.09	0.06	1050	0.12	0.08	1500	0.16	0.11	2100	0.30	0.21	4000
40	1750	43.8	0.31	0.21	307	0.43	0.31	441	0.57	0.42	609	0.81	0.61	876	1.08	0.84	1206	1.33	1.05	1512	2.10	1.70	2444
	1150	28.8	0.18	0.12	265	0.24	0.17	380	0.33	0.24	525	0.49	0.36	785	0.70	0.53	1160	0.89	0.68	1500	1.52	1.19	2600
	690	17.3	0.10	0.08	286	0.15	0.11	420	0.22	0.16	580	0.33	0.24	875	0.46	0.35	1280	0.61	0.47	1725	1.08	0.85	3100
	100	2.5	0.03	0.01	330	0.04	0.02	485	0.05	0.03	690	0.07	0.04	1018	0.11	0.06	1550	0.14	0.08	2050	0.25	0.15	3846
50	1750	35	0.25	0.17	297	0.35	0.24	429	0.44	0.32	573	0.66	0.48	857	0.87	0.65	1177	1.08	0.82	1484	1.70	1.33	2403
	1150	23	0.12	0.09	248	0.18	0.13	360	0.24	0.17	470	0.38	0.27	750	0.56	0.40	1100	0.75	0.54	1482	1.21	0.89	2450
	690	13.8	0.08	0.06	265	0.12	0.09	390	0.17	0.12	520	0.26	0.18	840	0.37	0.26	1225	0.51	0.37	1675	0.87	0.61	2800
	100	2	0.02	0.01	300	0.03	0.01	440	0.04	0.02	590	0.06	0.03	970	0.08	0.05	1425	0.11	0.06	1975	0.19	0.10	3325
60	1750	29.2	0.22	0.13	271	0.28	0.18	399	0.35	0.24	527	0.55	0.38	826	0.73	0.52	1128	0.89	0.64	1385	1.40	1.06	2281
	1150	19.2	0.17	0.09	201	0.16	0.10	312	0.21	0.13	440	0.34	0.22	730	0.49	0.32	1040	0.64	0.42	1390	1.05	0.70	2300
	690	11.5	0.10	0.05	253	0.11	0.06	338	0.14	0.08	480	0.23	0.15	805	0.33	0.21	1154	0.44	0.29	1570	0.71	0.48	2650
	100	1.7	0.02	0.01	285	0.022	0.01	371	0.03	0.01	530	0.06	0.03	930	0.07	0.04	1330	0.10	0.05	1840	0.16	0.08	3100
80	1750	21.9	0.15	0.08	222	0.21	0.11	318	0.23	0.13	375	0.38	0.22	634	-	-	-	0.76	0.38	1100	0.95	0.62	1795
	1150	14.4	0.12	0.06	246	0.17	0.08	358	0.16	0.09	390	0.31	0.17	734	-	-	-	0.47	0.29	1252	0.81	0.50	2171
	690	8.6	0.09	0.04	266	0.12	0.05	392	0.10	0.05	350	0.23	0.11	819	-	-	-	0.35	0.18	1340	0.61	0.34	2512
	100	1.3	0.02	0.01	293	0.03	0.01	440	0.02	0.01	470	0.05	0.02	942	-	-	-	0.07	0.03	1600	0.14	0.06	3030
100	1750	17.5	0.08	0.04	138	0.15	0.07	251	0.17	0.09	323	0.27	0.14	503	-	-	-	0.39	0.21	757	0.65	0.39	1414
	1150	11.5	0.07	0.028	152	0.12	0.05	283	0.14	0.07	360	0.22	0.11	580	-	-	-	0.34	0.17	913	0.56	0.31	1711
	690	6.9	0.05	0.02	164	0.09	0.03	309	0.10	0.04	391	0.16	0.07	646	-	-	-	0.26	0.12	1054	0.43	0.22	1980
	100	1	0.01	0.00	180	0.02	0.01	347	0.02	0.01	435	0.04	0.01	744	-	-	-	0.06	0.02	1267	0.10	0.04	2387
Overhung Load*			200 lbs			300 lbs			500 lbs			700 lbs.			900 lbs			1000 lbs			1300 lbs		
Output Shaft Thrust Load			300 lbs			400 lbs			500 lbs			700 lbs			800 lbs			900 lbs			1100 lbs		

Ratings shown reflect maximum gear capacity based on AGMA standards (Service Factor = 1.0) with Klubersynth UH1 6-460.

*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.

Note: For input speeds above 1750 RPM, do NOT exceed maximum listed input horsepower.

A1 SS700 Series Double Reduction

Ratios and Performance

Worm-Planetary Double Reduction (WP)

Series Size			SS_WP713			SS_WP715			SS_WP718			SS_WP721			SS_WP724			SS_WP726			SS_WP732		
Ratio	Input RPM	Output RPM	Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output	
				HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)
75	1750	23.3	0.15	0.11	293	0.24	0.16	446	0.27	0.21	570	0.44	0.34	910	0.66	0.51	1367	0.75	0.57	1542	0.75	0.57	1542
100	1750	17.5	0.13	0.09	311	0.19	0.13	457	0.25	0.18	643	0.38	0.27	957	0.56	0.40	1435	0.74	0.53	1912	0.75	0.54	2072
150	1750	11.7	0.10	0.06	300	0.16	0.09	509	0.18	0.12	663	0.26	0.18	978	0.40	0.26	1415	0.53	0.36	1969	0.75	0.51	2747
200	1750	8.8	0.08	0.04	309	0.13	0.07	520	0.14	0.09	643	0.20	0.13	957	0.35	0.20	1435	0.42	0.27	1912	0.75	0.49	3509
250	1750	7	0.07	0.03	312	0.11	0.06	505	0.10	0.06	560	0.16	0.10	915	0.27	0.15	1340	0.33	0.21	1848	0.54	0.34	3103
300	1750	5.8	0.06	0.03	273	0.09	0.04	477	0.09	0.05	510	0.15	0.08	877	0.24	0.12	1255	0.30	0.16	1726	0.50	0.27	2909
400	1750	4.4	0.05	0.02	251	0.08	0.03	419	0.07	0.03	413	0.13	0.06	890	-	-	-	0.22	0.10	1490	0.44	0.20	2811
500	1750	3.5	0.03	0.01	197	0.05	0.02	330	0.05	0.02	416	0.09	0.04	702	-	-	-	0.16	0.07	1177	0.28	0.12	2215
Overhung Load*			200 lbs			300 lbs			500 lbs			700 lbs			900 lbs			1000 lbs			1300 lbs		
Output Shaft Thrust Load			300 lbs			400 lbs			500 lbs			700 lbs			800 lbs			900 lbs			1100 lbs		

Stand-Alone Planetary			SSFSP5 and SSFSP5A		
Ratio	Input RPM	Output RPM	Input HP	Output	
				HP	Torque (in-lbs)
5	1750	350	0.75	0.69	124

Ratings shown reflect maximum gear capacity based on AGMA standards (Service Factor = 1.0) with Klubersynth UH1 6-460.

Worm-Planetary and Stand-Alone Planetary gearing is not recommended for use in applications with repetitive vibrational or impact loading.

*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.

Note: For input speeds above 1750 RPM, do NOT exceed maximum listed input horsepower.

Worm-Worm Double Reduction (WB & WD)

Series Size			SS_WB/WD713			SS_WB/WD718			SS_WB/WD721			SS_WB/WD726			SS_WB/WD732		
Ratio	Input RPM	Output RPM	Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output		Input HP	Output	
				HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)		HP	Torque (in-lbs)
100	1750	17.5	0.16	0.08	275	0.23	0.16	570	0.41	0.25	910	0.75	0.50	1785	1.33	0.96	3450
150	1750	11.7	0.13	0.05	280	0.23	0.11	580	0.30	0.17	940	0.56	0.34	1840	1.00	0.67	3600
200	1750	8.8	0.12	0.05	320	0.19	0.09	660	0.25	0.14	990	0.47	0.26	1875	0.81	0.53	3800
300	1750	5.8	0.10	0.03	335	0.16	0.06	690	0.20	0.09	1025	0.37	0.18	1950	0.61	0.36	3950
400	1750	4.4	0.09	0.02	330	0.12	0.05	690	0.17	0.02	1025	0.31	0.14	1950	0.48	0.27	3900
600	1750	2.9	0.08	0.02	340	0.10	0.03	710	0.13	0.05	1025	0.25	0.09	2000	0.36	0.18	4025
900	1750	1.9	0.07	0.01	340	0.08	0.02	710	0.11	0.03	1050	0.21	0.06	2000	0.28	0.12	4025
1200	1750	1.5	0.07	0.01	330	0.07	0.02	690	0.10	0.02	1025	0.19	0.05	1950	0.23	0.09	3900
1800	1750	1	-	-	-	-	-	-	0.08	0.01	900	0.16	0.03	1775	0.19	0.06	3750
2000	1750	0.9	-	-	-	0.052	0.008	590	-	-	-	0.16	0.03	1940	0.22	0.05	3880
2400	1750	0.7	-	-	-	-	-	-	0.05	0.01	900	0.15	0.02	1864	0.17	0.04	3143
3000	1750	0.6	-	-	-	-	-	-	-	-	-	0.14	0.02	1800	0.15	0.04	3750
3600	1750	0.5	-	-	-	-	-	-	-	-	-	0.13	0.01	1865	0.14	0.02	3154
Overhung Load*			200 lbs.			500 lbs.			700 lbs.			1000 lbs.			1300 lbs.		
Output Shaft Thrust Load			300 lbs.			500 lbs.			700 lbs.			900 lbs.			1100 lbs.		

Ratings shown reflect maximum gear capacity based on AGMA standards (Service Factor = 1.0) with Klubersynth UH1 6-460.

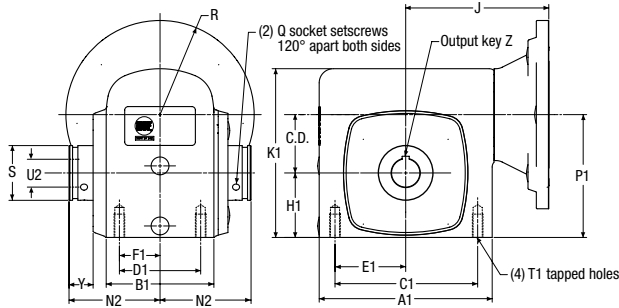
*Overhung Load is at centerline of output shaft projection and with NO THRUST Load.

Note: For input speeds above 1750 RPM, do NOT exceed maximum listed input horsepower.

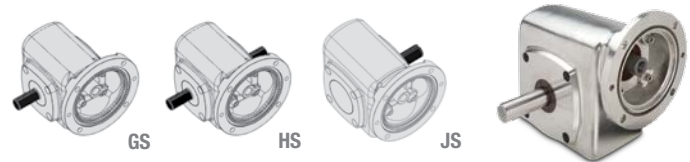
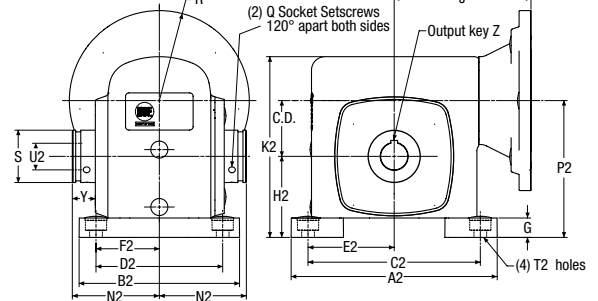
Dimensions



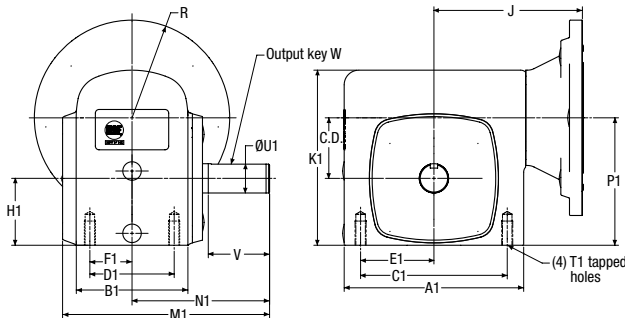
SSH700 & SSHQC700 Hollow Shaft without Base



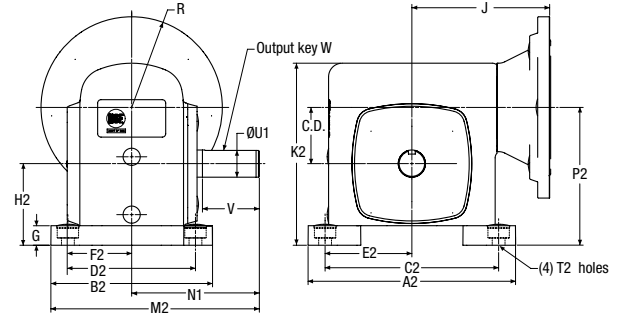
SSH700 & SSHQC700 Hollow Shaft with Base



SSF700 & SSQC700 GS Solid Shaft without Base



SSF700 & SSQC700 GS Solid Shaft with Base



SIZE	C.D.	A1	A2	B1	B2	C1	C2	D1	D2	E1	E2	F1	F2
713	1.33	4.35	5.25	2.87	4.19	3.25	4.38	2.00	3.31	1.63	2.19	1.00	1.66
715	1.54	5.26	6.46	3.69	5.5	4.19	5.25	2.75	4.31	2.09	2.63	1.38	2.16
718	1.75	5.63	7.00	3.69	5.75	4.19	5.75	2.75	4.50	2.09	2.88	1.38	2.25
721	2.06	6.12	7.62	3.81	5.94	5.00	6.38	2.88	4.69	2.50	3.19	1.44	2.34
724	2.38	6.52	8.37	4.06	6.18	5.00	7.06	2.88	4.88	2.5	3.53	1.44	2.44
726	2.62	7.58	9.25	4.44	6.50	6.38	8.00	3.38	5.25	3.19	4.00	1.69	2.63
732	3.25	9.20	11.00	5.88	7.62	7.50	9.50	4.00	6.13	3.75	4.75	2.00	3.06

SIZE	G	H1	H2	J				K1	K2	M1	M2	N1	N2	P1	P2	Q
				F700		QC700 †										
				56C/140TC	180TC	56C/140TC	180TC									
713	0.53	1.72	2.25	3.94	-	5.46	-	4.27	4.8	5.88	6.10	4.00	2.50	3.06	3.59	#10-32
715	0.59	1.91	2.5	4.50	-	6.11	-	5.48	6.08	6.71	7.06	4.31	3.03	3.44	4.06	#10-32
718	0.69	2.06	2.75	4.69	-	6.29	-	5.31	6.00	6.74	7.19	4.31	3.03	3.81	4.50	#10-32
721	0.72	2.28	3.00	5.06	-	6.76	-	5.97	6.69	7.09	7.66	4.69	3.22	4.34	5.06	1/4-28
724	0.75	2.5	3.25	5.25	5.69	6.95	7.81	7.04	7.79	7.61	8.18	5.09	3.22	4.88	5.63	1/4-28
726	0.75	2.94	3.69	5.75	6.19	7.39	7.81	7.50	8.25	8.33	8.87	5.63	3.44	5.56	6.31	5/16-24
732	0.88	3.50	4.38	6.56	7.00	8.20	8.77	9.25	10.13	10.49	10.99	7.06	4.31	6.75	7.63	5/16-24

SIZE	R †		S	T1	T2 C'Bore/ Hole Dias.	U1	Max U2*	V	W	Y	Z	Approx. Weight (lbs.)			
	56C/140TC	180TC/210TC										SSF700	SSH700	SSF700B	SSH700B
713	3.33	-	1.38	5/16-18	-	0.625	1.0000	2.00	3/16 x 1	0.63	*	13	15	15	17
715	3.33	-	1.38	5/16-18	.60 / .41	0.750	1.0000	1.78	3/16 x 1	0.63	*	21	24	23	26
718	3.33	-	1.38	5/16-18	.60 / .41	0.875	1.0000	1.78	3/16 x 1	0.60	*	22	25	25	28
721	3.33	-	2.00	3/8-16	.78 / .47	1.000	1.4375	2.09	1/4 x 1-1/4	0.82	*	27	30	30	33
724	3.33	4.63	2.00	3/8-16	.78 / .47	1.125	1.4375	2.38	1/4 x 1-1/4	0.70	*	37	42	41	46
726	3.33	4.63	2.50	3/8-16	.78 / .53	1.125	1.9375	2.63	1/4 x 1-15/16	0.73	*	40	47	44	51
732	3.33	4.63	2.88	7/16-14	.78 / .53	1.375	2.1875	3.25	5/16 x 2-7/16	0.89	*	63	76	70	83

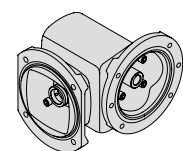
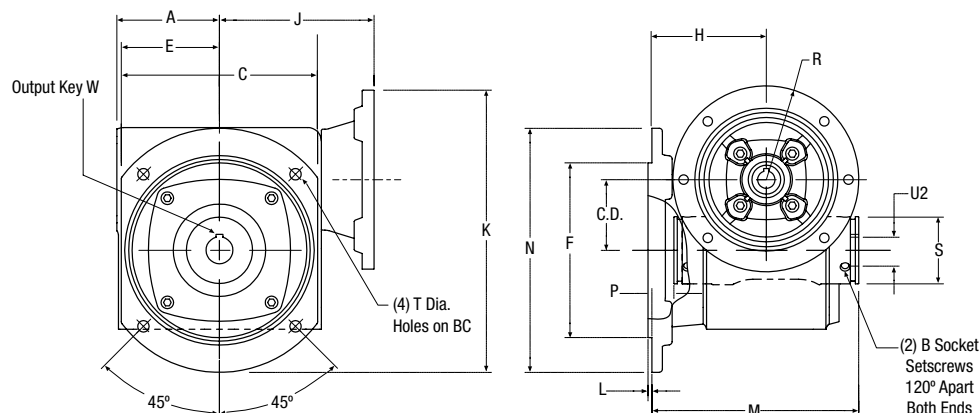
* Refer to Table 1 on page 7. † 42CZ Flange Dimensions: (QC713 Only) J= 4.15; R=2.16

A1 SS700 Series Single Reduction, With Output Flange

Dimensions

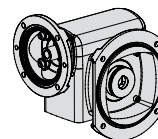
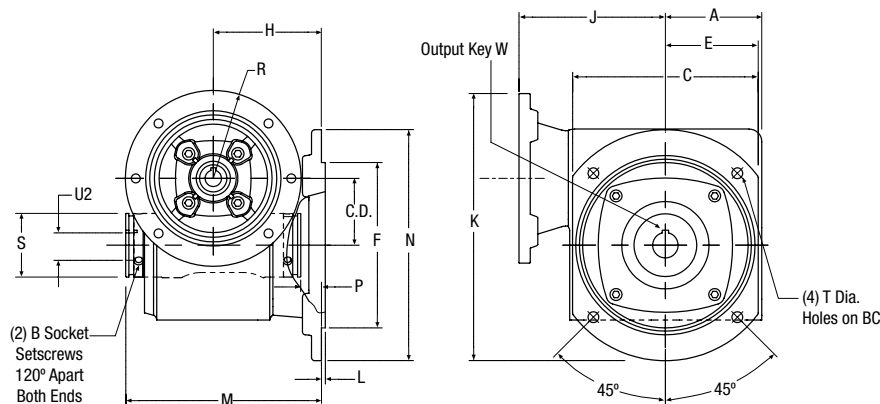


SSHF700W & SSHQC700W Hollow Output Shaft, W Position



W Output Flange
(Available for all sizes)

SSHF700V & SSHQC700V Hollow Output Shaft, V Position



V Output Flange
(Not available for sizes 718 & 721)

SIZE	C.D.	A	B	C	B.C.	E	F	H	J				K	L
									F700		QC700 † 			
									56C/140TC	180TC	56C/140TC	180TC		
713	1.33	2.18	#10-32	4.75	5.00	2.38	4.125	3.18	3.94	-	5.46	-	7.55	0.15
715	1.54	2.63	#10-32	5.54	5.88	2.77	4.750	4.08	4.50	-	6.11	-	8.34	0.15
718	1.75	2.82	#10-32	5.53	5.88	2.77	5.470	3.62	4.69	-	6.29	-	8.55	0.15
721	2.06	3.06	1/4-28	6.03	6.50	3.02	5.250	3.94	5.06	-	6.76	-	9.17	0.15
724	2.38	3.25	1/4-28	6.80	7.50	3.40	5.500	4.22	5.25	5.69	6.95	7.81	9.94	0.15
726	2.62	3.80	5/16-24	7.29	8.00	3.65	6.500	4.45	5.75	6.19	7.39	7.81	10.50	0.15
732	3.25	4.60	5/16-24	8.79	10.00	4.40	8.000	5.50	6.56	7.00	8.20	8.77	12.22	0.15

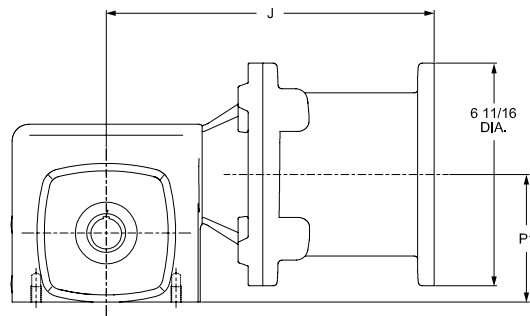
SIZE	M	N	P	R †		S	T**		Low Speed Shaft			Approx Weight (lbs.)
				56C/140TC	180TC/210TC		Hole Dia	C-Bore Dia	Hollow Bore Output			
									Max U2*	W - Key		
										Sq.	Length	
713	5.68	5.80	0.68	3.33	-	1.38	0.362	0.600	1.0000	*	*	16
715	7.11	6.94	1.05	3.33	-	1.38	0.362	0.600	1.0000	*	*	26
718	0.65	6.94	0.59	3.33	-	1.38	0.362	0.600	1.0000	*	*	29
721	7.16	7.56	0.72	3.33	-	2.00	0.425	0.600	1.4375	*	*	34
724	7.44	8.60	1.00	3.33	4.63	2.00	0.425	0.600	1.4375	*	*	48
726	7.89	9.08	1.01	3.33	4.63	2.50	0.425	0.600	1.9375	*	*	51
732	9.81	11.28	1.19	3.33	4.63	2.88	0.535	0.808	2.1875	*	*	80

* Refer to Table 1 on page 7. ** Designed for use with socket head capscrews.

† 42CZ Flange Dimensions: (QC713 Only) J= 4.15; R=2.16

Dimensions

SSHFWP700 & SSHQCW700 Hollow Output Shaft



Size	C.D.	J		P1
		F700	QC700 NEW	
		56C/140TC	56C/140TC	
713	1.33	9.07	10.59	3.06*
715	1.54	9.63	11.24	3.44
718	1.75	9.82	11.42	3.81
721	2.06	10.19	11.89	4.34
724	2.38	10.38	12.08	4.88
726	2.62	10.88	12.52	5.56
732	3.25	11.69	13.33	6.75

*Motor flange will drop below the bottom of the speed reducer.

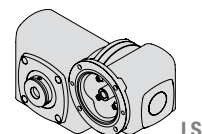
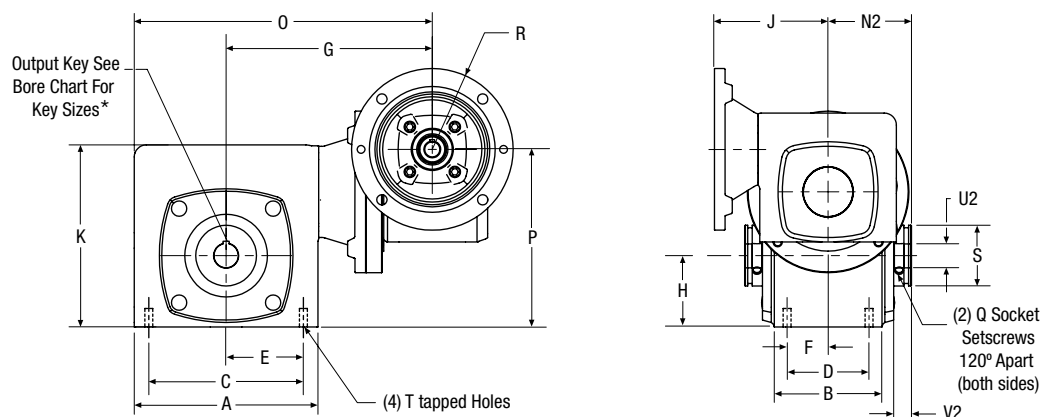
Same dimensions for SSHFWP700 & SSQCWP700 Solid Output Shaft Models.

A1 SS700 WB Series Double Reduction, Parallel Shafts

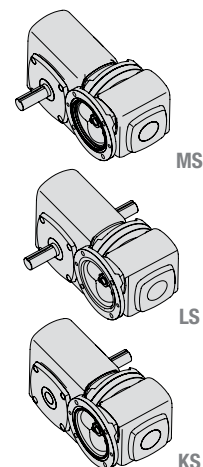
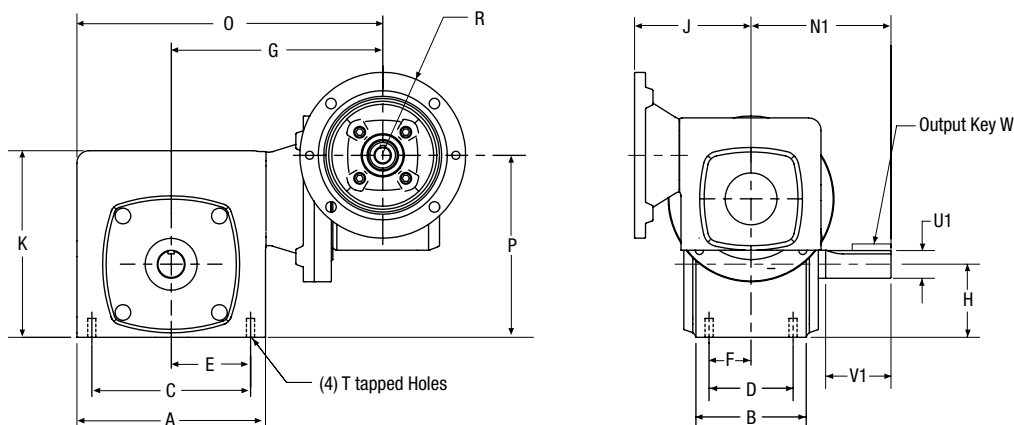
Dimensions



SSHFWB700 & SSHQCWB700 Hollow Output Shaft



SSFWB700 & SSQCWB700 Solid Output Shaft



SIZE	A	B	C	D	E	F	G	H	J		K	N1	N2	O	P
									F700	QC700 † NEW					
									56C/140TC	56C/140TC					
713	4.35	2.87	3.25	2.00	1.63	1.00	7.00	1.72	3.94	5.46	4.27	4.00	2.50	9.18	4.39
718	5.63	3.69	4.19	2.75	2.09	1.38	7.75	2.06	3.94	5.46	5.31	4.31	3.03	10.57	5.14
721	6.12	3.81	5.00	2.88	2.50	1.44	8.12	2.28	3.94	5.46	5.97	4.69	3.22	11.18	5.67
726	7.58	4.44	6.38	3.38	3.19	1.69	8.56	2.94	4.68	6.29	7.50	5.63	3.44	12.35	7.32
732	9.20	5.88	7.50	4.00	3.75	2.00	9.37	3.50	4.68	6.29	9.25	7.06	4.31	13.97	8.50

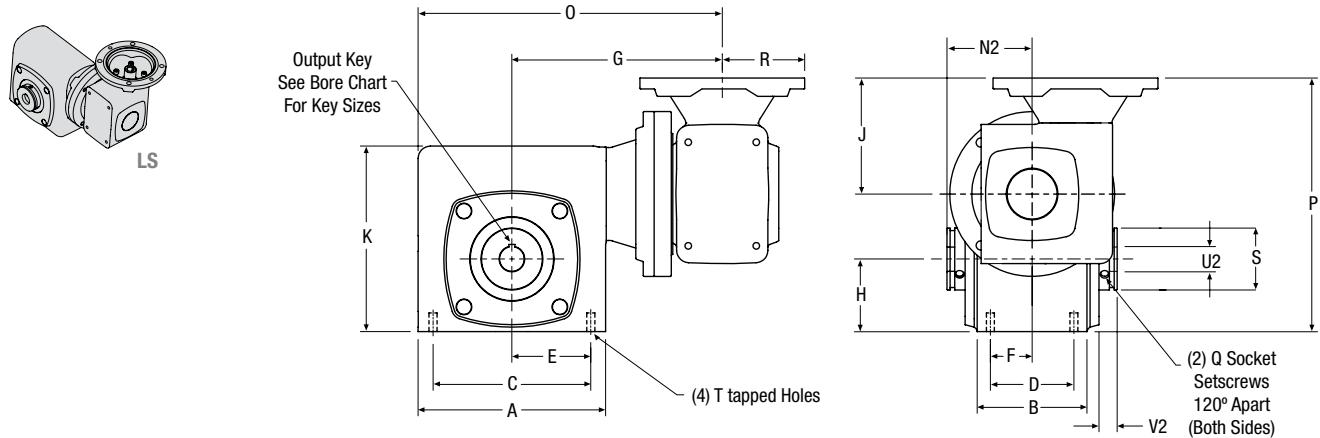
SIZE	Q	R † 56C/140TC	S	T Tap Size	Low Speed Shaft						Approx Weight (lbs.)	
					Solid Output Shaft				Hollow Bore Output		SSHFWB	SSHFWB
					U1	V1	W - Key		Max U2*	V2		
							Sq.	Length				
713	#10-32	3.33	1.38	5/16-18	0.625	2.13	3/16	1	1.0000	0.63	28	30
718	#10-32	3.33	1.38	5/16-18	0.875	1.78	3/16	1	1.0000	0.60	37	40
721	1/4-28	3.33	2.00	3/8-16	1.000	2.09	1/4	1-1/4	1.4375	0.82	42	45
726	5/16-24	3.33	2.50	3/8-16	1.125	2.63	1/4	1-15/16	1.9375	0.73	62	69
732	5/16-24	3.33	2.88	7/16-14	1.375	3.25	5/16	2-7/16	2.1875	0.88	85	98

* Refer to Table 1 on page 7. † 42CZ Flange Dimensions: (QC713 Only) J= 4.15; R=2.16

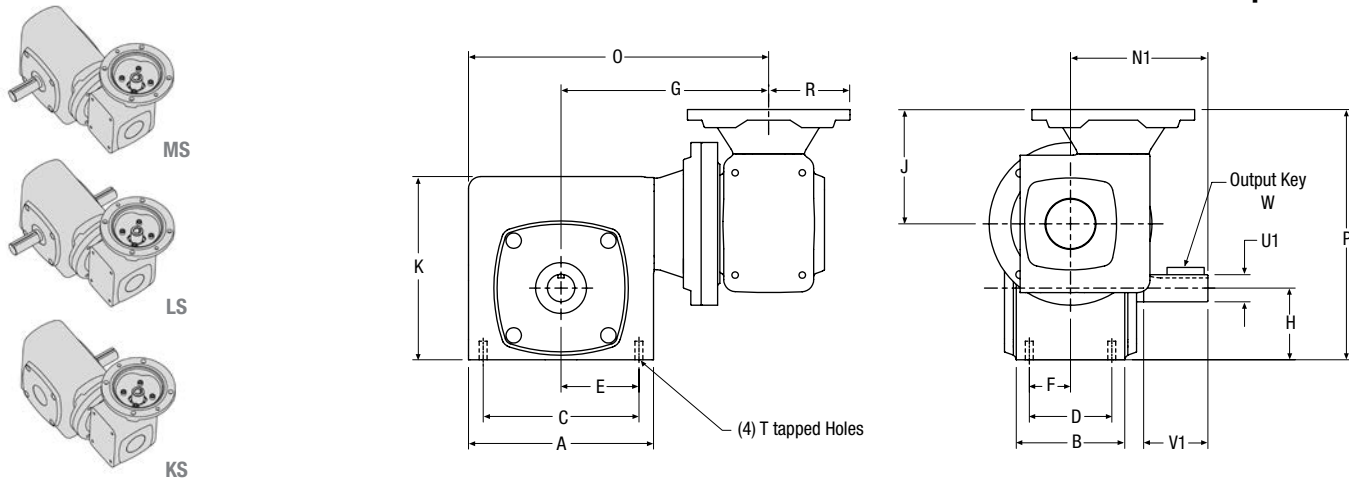
Dimensions



SSHFW700 & SSHQCWD700 Hollow Output Shaft



SSFWD700 & SSQCWD700 Solid Output Shaft



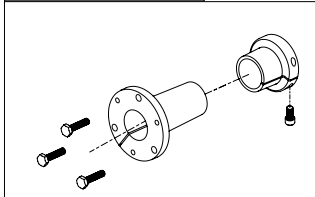
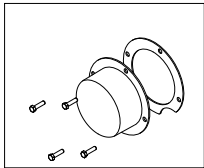
SIZE	A	B	C	D	E	F	G	H	J †		K	N1	N2	O	P †	
									F700	QC700 NEW					F700	QC700 NEW
									56C/140TC	56C/140TC					56C/140TC	56C/140TC
713	4.35	2.87	3.25	2.00	1.63	1.00	7.00	1.72	3.94	5.46	4.27	4.00	2.50	9.18	6.99	8.51
718	5.63	3.69	4.19	2.75	2.09	1.38	7.75	2.06	3.94	5.46	5.31	4.31	3.03	10.57	7.75	9.27
721	6.12	3.81	5.00	2.88	2.50	1.44	8.12	2.28	3.94	5.46	5.97	4.69	3.22	11.18	8.28	9.80
726	7.58	4.44	6.38	3.38	3.19	1.69	8.56	2.94	4.68	6.29	7.50	5.63	3.44	12.35	10.25	11.77
732	9.20	5.88	7.50	4.00	3.75	2.00	9.37	3.50	4.68	6.29	9.25	7.06	4.31	13.97	11.44	12.96

SIZE	Q	R ↑ 56C/140TC	S	T Tap Size	Low Speed Shaft						Approx Weight (lbs.)	
					Solid Output Shaft				Hollow Bore Output			
					U1	V1	W - Key		Max U2*	V2		
							Sq.	Length				
713	#10-32	3.33	1.38	5/16-18	0.625	2.13	3/16	1	1.0000	0.63	28	30
718	#10-32	3.33	1.38	5/16-18	0.875	1.78	3/16	1	1.0000	0.60	37	40
721	1/4-28	3.33	2.00	3/8-16	1.000	2.09	1/4	1-1/4	1.4375	0.82	42	45
726	5/16-24	3.33	2.50	3/8-16	1.125	2.63	1/4	1-15/16	1.9375	.73	62	69
732	5/16-24	3.33	2.88	7/16-14	1.375	3.25	5/16	2-7/16	2.1875	.88	85	98

* Refer to Table 1 on page 7 † 42CZ Flange Dimensions: (QC713 Only) J= 4.15; R=2.16; P=7.20

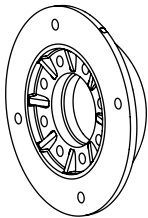
SS2000R Series Helical Bevel Gear Drives A2

Optional gasketed shaft cover available to eliminate food traps

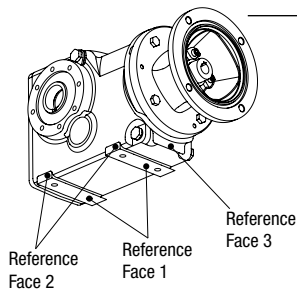


Optional keyless **Tapered Bushing** (shown) provides longer shaft life and faster installation

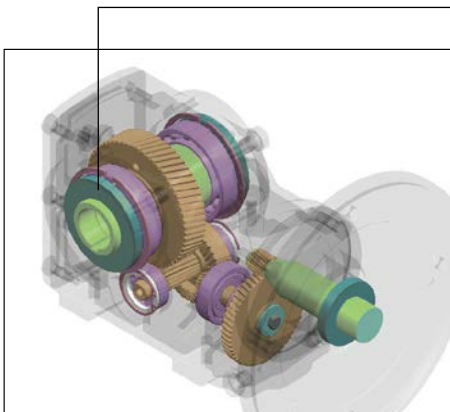
303 Stainless steel shafts



Optional piloted output flange available



Unique **Mounting Registers** allow for quick precision alignment



Laser marked nameplate provide worry-free part identification while maintaining a smooth, unetched surface

Rare Earth Magnets near gear mesh provide automatic entrapment of wear debris ensuring longer life

The **Original Domed Crown™** unique rounded housing prevents foreign matter adherence and fluid accumulation

Stainless Steel Exterior
316 Castings
303/304 Machined Components



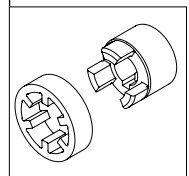
Integrated O-rings

NEMA or IEC C-Face motor input

Larger diameter oil fill/drain holes for faster oil changes

Polished matte finish maintains clean appearance throughout operation

3-Jaw Coupling



Optional high pressure washdown seal available*



Energy Efficient Design

With efficiency of 98% per gear mesh, Series 2000 helical bevel reducers are ideal for use in applications with:

- continuous or high duty cycle operations
- high-ratio reduction
- limited access applications where long life is a necessity

Ask about our Bauer Line of Stainless Steel Gearmotors



A2 SS2000R Series Helical Bevel Gear Drives

Ordering Information

Example: **SSRF2043RF-40KC-B7-GS5-P22-Z-HUTFSS-9**

SS	RF	2043R	F – 40	K	C	– B7 –	GS	5	– P22	Z – HUTFSS – 9
Exterior SS Stainless Steel	Style RF – C-Face Coupling Mount	Size 2043R 2063R	Base Blank – None F – Output Flange T – Torque B – Base Mounting Feet	Lubrication K – Klubersynth UH1-6-460 H1 Food Grade	Seal Option Blank – Standard C – High Pressure Washdown Output Seals IP69K	Motor Input Mounting Nema Mounting B5 56C B7 140TC/180C B9 180TC/210C B11 210TC/250UC IEC (B5) Mounting M14F IEC71 M19F IEC80 M24F IEC90S/90L M28F IEC100/112 M38F IEC132S/132M	Mounting Positions See page 18 1 2 3 4 5 6	Output Shaft Code Hollow Shaft See Chart 1 P24 Inch - spec'd in 1/16" increments PM40 Metric - spec'd in mm increments Solid Shaft See Chart 1 D24 OD - spec'd in 1/16" increments DM40 OD - spec'd in mm increments Tapered Bushing Hollow Output Shaft See Chart 1 TP22 Inch - Bore - spec'd in 1/16" increments TM35 Metric - Bore - spec'd in mm increments	C-Face Motor See Chart 2 Blank – No Motor	Motor Conduit Box Location See Chart 3 Blank – No Motor 0 – 12 o'clock 3 – 3 o'clock 6 – 6 o'clock 9 – 9 o'clock
Reductions Blank – 3-Reductions WP – 4-Reduction Includes Planetary 5:1 Reduction		Ratios See page 19 for list of ratios. X.X – For ratios lower than 10:1 XXX – For ratios higher than 10.1					Output Mounting GS – Customer Mount on Left (Stainless) HS – Customer Mount Either Side (Stainless) JS – Customer Mount on Right Side (Stainless)			Shaft Cover Blank – No Cover Z – Shallow Cover (Fits Solid & Hollow Shafts) Y – Tapered Bushing Cover X – Deep Cover

Chart 1: Available Output Shaft Codes

Size	Hollow Shaft Bore Codes		Solid Shaft OD Codes		Tapered Bushing Bore Codes	
	Inch	Metric	Inch	Metric	Inch	Metric
2043R	P20	PM30	D20	DM30	TP19	TM30
	P22	PM35	D22	DM35	TP20	
2063R	P23	PM40	D26	DM40	TP22	TM35
	P24		D32	DM50	TP23	

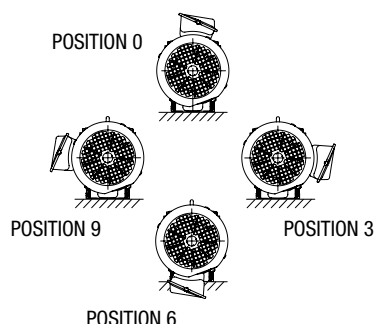
Additional Shaft and Bore sizes available upon request.

Chart 2: Stainless Steel AC Motors

Part #	HP	Type	Frame Size
FUT-SS	0.5	TENV	56C
GUT-SS	0.75	TENV	56C
HUT5/8-SS	1.0	TENV	56C
HUTF5/8-SS	1.0	TEFC	56C
HUT-SS	1.0	TENV	140TC
HUTF-SS	1.0	TEFC	140TC
JUTF-SS	1.5	TEFC	140TC
KUTF-SS	2.0	TEFC	140TC
LUTF-SS	3.0	TEFC	180TC
MUTF-SS	5.0	TEFC	180TC
NUTF-SS	7.5	TEFC	210TC
PUTF-SS	10.0	TEFC	210TC

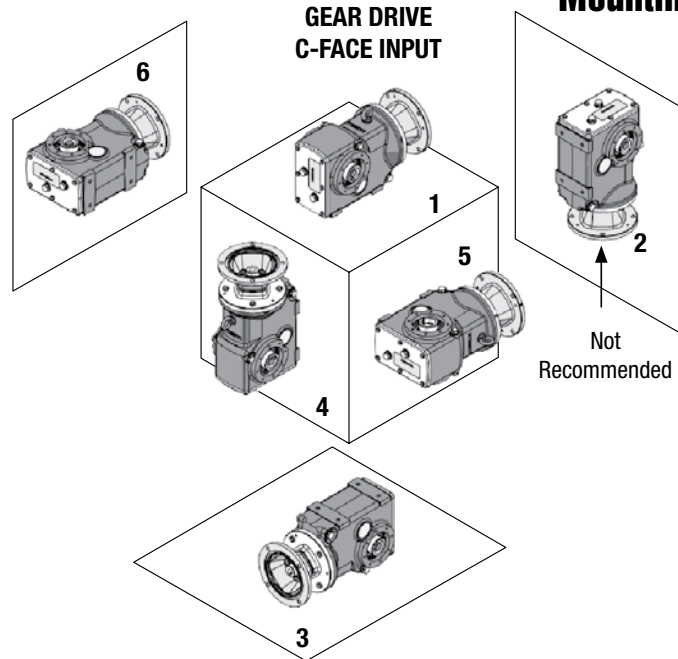
TENV = Totally enclosed, non-ventilated
TEFC = Totally enclosed, fan-cooled

Chart 3: Conduit Box Positions



When looking into motor fan cover with gear drive in mounting position 1.

Mounting Positions & Lubrication



Lubrication

Klubersynth UH1 6-460 is recommended for the SS2000R Series gear drives for optimum performance. Normal full-load operating temperatures range between 130°F - 150°F. During initial break-in of the gear drive, higher than normal operating temperatures may result. All gear drives are supplied with UH1 6-460 synthetic oil (unless specified otherwise) with quantity listed below for standard mounting position 1 or to mounting specified at time of order. These gear drives are designed with internal features to

reduce the impact of metallic wear debris, which should increase maintenance intervals. Relubrication is recommended for 10,000 hours or more frequently when operating in highly contaminated environments. Satisfactory performance may be obtained in some applications with non-synthetic oils, but will require more frequent oil changes. Recommendations are based on input speeds of 1800 RPM nominal. For higher input speeds, consult factory.

RECOMMENDED LUBRICANT	Reducer Designation	Ambient (Room) Temperature	ISO Viscosity Grade No.	Viscosity Range SUS @ 100F	Part Number (Quart)	Comments
Klubersynth UH1 6-460 Synthetic	K	-20°F to +225°F (-29°C to 107°C)	460	1950/2500	65159	H1 Food-Grade

Notes: Upper temperature limit is dictated by reducer components and not the oil.

	Mounting Position					
	1	2	3	4	5	6
Plug A	Oil-Fill	Opt. Vent	—	Oil Drain	Oil-Fill	—
Plug B	—	Opt. Vent	Oil-Fill	Oil Drain	—	Oil-Fill
Plug C	Opt. Vent	Oil-Fill	Oil Drain	—	Oil Drain	Opt. Vent
Plug D	Oil Drain	Oil Drain	Opt. Vent	Oil-Fill	Oil Drain	Opt. Vent
Plug E	Oil Drain	Oil Drain	Opt. Vent	Oil-Fill	Opt. Vent	Oil Drain
Plug F	Opt. Vent	Oil-Fill	Oil Drain	—	Opt. Vent	Oil Drain

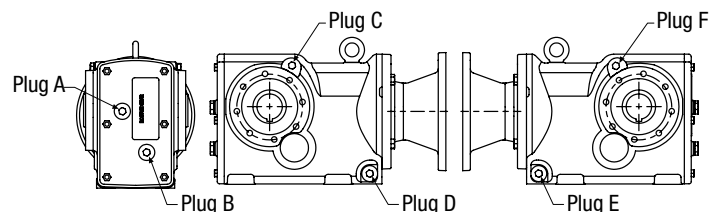
Notes:

- Oil-Fill** Plugged from factory. Port used during regular maintenance intervals for Oil-Fill. Defines approximate oil-level during operation.
 - Opt. Vent** Plugged from factory. A 5psi pressure vent plug is supplied uninstalled with each product. Defines optional location for installation of that pressure vent.
 - Oil Drain** Plugged from factory. Port used during regular maintenance intervals for draining used oil. Re-plug prior to oil-fill.
 - Position 2*** Not preferred and not recommended as a Mounting Position
 - Position 4*** Consult factory for venting options.
- All products supplied from factory lubed for Position 1 unless specified otherwise

Lube Capacity in Quarts

	Mounting Position					
	1	2	3	4	5	6
2043R	0.7	1.77	2.23	2.74	2.0	2.0
2063R	1.6	3.58	5.46	6.27	4.86	5.16

Oil Plug and Vent Plug Location Details



Ratios and Performance

3 Reductions

■ Available Options ○ Optional

Model No.	Output Speed (1750 rpm Input)	Actual Ratio	Ratio used in Part No.	Input Power (HP)	Output Torque Rating (lbf-in)	NEMA C-Face Input				IEC C-Face Input				
						B5	B7	B9	B11	M14F	M19F	M24F	M28F	M38F
SSRF2043R	311	5.62	5.6	12.1	2,310		○	■	■			○	■	■
	266	6.58	6.6	11.2	2,490		○	■	■			○	■	■
	238	7.36	7.4	10.4	2,590		○	■	■			○	■	■
	203	8.63	8.6*	8.10	2,370		○	■	■			○	■	■
	193	9.06	9.1*	7.91	2,430		○	■	■			○	■	■
	166	10.56	11*	7.09	2,530		○	■				○	■	
	149	11.77	11.8*	6.60	2,620		○	■				○	■	
	144	12.19	12	8.40	3,460		○	■				○	■	
	128	13.65	14	7.50	3,480		○	■				○	■	
	109	15.99	16*	6.46	3,500	○	■	■		○	○	■	■	
	104	16.80	17*	6.16	3,510	○	■	■		○	○	■	■	
	89	19.58	20	5.32	3,530	○	■	■		○	○	■	■	
	80	21.81	22	4.80	3,550	○	■	■		○	○	■	■	
	72	24.42	24	4.30	3,560	○	■	■		○	○	■	■	
	68	25.91	26	4.06	3,570	○	■	■		○	○	■	■	
	60	29.30	29	3.61	3,590	○	■	■		○	○	■	■	
	58	30.23	30	3.50	3,590	○	■	■		○	○	■	■	
	49	35.39	35	3.01	3,610	○	■	■		○	○	■	■	
	44	39.61	40	2.70	3,630	■	■			■	■	■		
	38	46.41	46	2.31	3,650	■	■			■	■	■		
	36	48.75	49	2.20	3,650	■	■			■	■	■		
	31	56.83	57	1.90	3,670	■	■			■	■	■		
	28	63.30	63	1.71	3,680	■	■			■	■	■		
	25	70.89	71	1.53	3,690	■	■			■	■	■		
	23	75.20	75	1.50	3,700	■	■			■	■	■		
	21	85.12	85	1.28	3,710	■	■			■	■	■		
	19	90.86	91	1.20	3,720	■	■			■	■	■		
	17	104.37	104	1.05	3,740	■	■			■	■	■		
	14	121.48	121	0.91	3,750	■				■	■			
	13	131.87	132	0.84	3,760	■				■	■			
SSRF2063R	240	7.28	7.3	17.6	4,330		○	■	■			○	■	■
	209	8.37	8.4	15.5	4,400		○	■	■			○	■	■
	181	9.66	9.7	13.5	4,440		○	■	■			○	■	■
	165	10.63	11*	12.4	4,460		○	■	■			○	■	■
	141	12.41	12*	10.7	4,490		○	■	■			○	■	■
	132	13.22	13	15.5	6,930		○	■	■			○	■	■
	115	15.19	15	14.0	7,230		○	■	■			○	■	■
	100	17.53	18	12.9	7,680		○	■	■			○	■	■
	91	19.29	19*	12.0	7,830		○	■	■			○	■	■
	78	22.53	23*	10.5	8,050		○	■	■			○	■	■
	74	23.60	24*	10.2	8,170		○	■	■			○	■	■
	64	27.27	27*	9.10	8,410		■	■	■			■	■	■
	58	30.21	30*	7.72	7,910		■	■	■			■	■	■
	49	35.61	36	5.30	6,340	○	■	■		○	○	■	■	
	46	38.39	38	5.79	7,550	○	■	■		○	○	■	■	
	39	44.32	44	5.04	7,580	○	■	■		○	○	■	■	
	36	48.77	49	4.59	7,600	■	■	■		■	■	■	■	
	31	56.97	57	3.95	7,630	■	■	■		■	■	■	■	
	29	59.67	60	3.78	7,650	■	■	■		■	■	■	■	
	25	68.95	69	3.28	7,670	■	■	■		■	■	■	■	
	23	76.37	76	2.97	7,700	■	■			■	■	■		
	19	90.04	90	2.53	7,720	■	■			■	■	■		
	17	101.43	101	2.25	7,750	■	■			■	■	■		
	16	108.03	108	2.11	7,750	■	■			■	■	■		
	14	123.54	124	1.85	7,770	■	■			■	■	■		
	12	143.20	143	1.60	7,800	■	■			■	■	■		

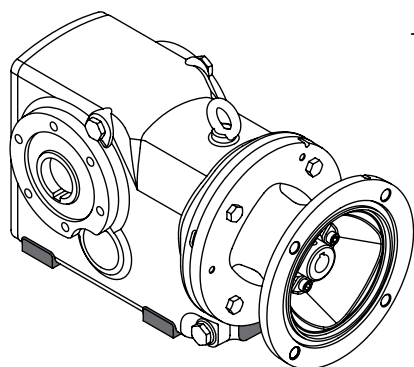
Ratings shown reflect maximum gear capacity based on AGMA Standards (Service Factor = 1.0) with Klybersynth UH1 6-460.

For input speeds above 1750 RPM, do not exceed maximum listed input horsepower.

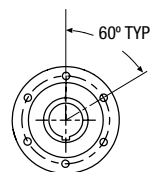
* Depending on the input option chosen, reducer ratios denoted with * may have an overall capacity lower than the values shown (values represent gear capacity). Contact factory for details.

Mounting Details

(Shown with Hollow Output Shaft Option)



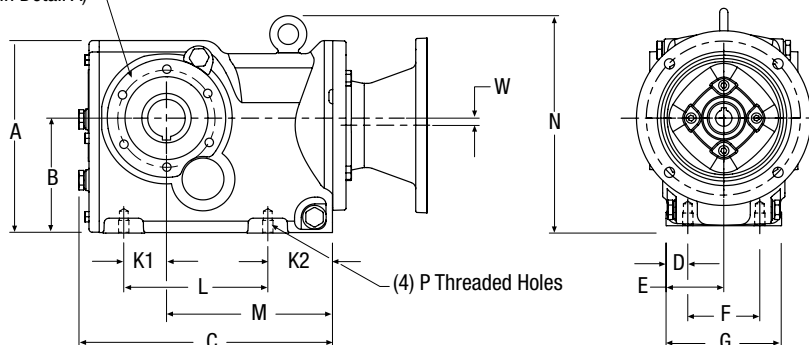
Detail A



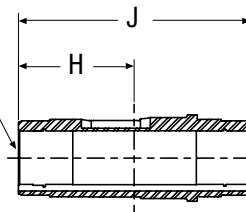
SS2040R & SS2060R

Side shown matches
Detail A.

T Threaded Holes on Ø BC1
(as shown in Detail A)



Refer to p.24
for Hollow
Shaft Details



Solid output shaft details shown on p. 22
Tapered bushing output shaft details shown on p. 23

Dimensions in inches (mm)

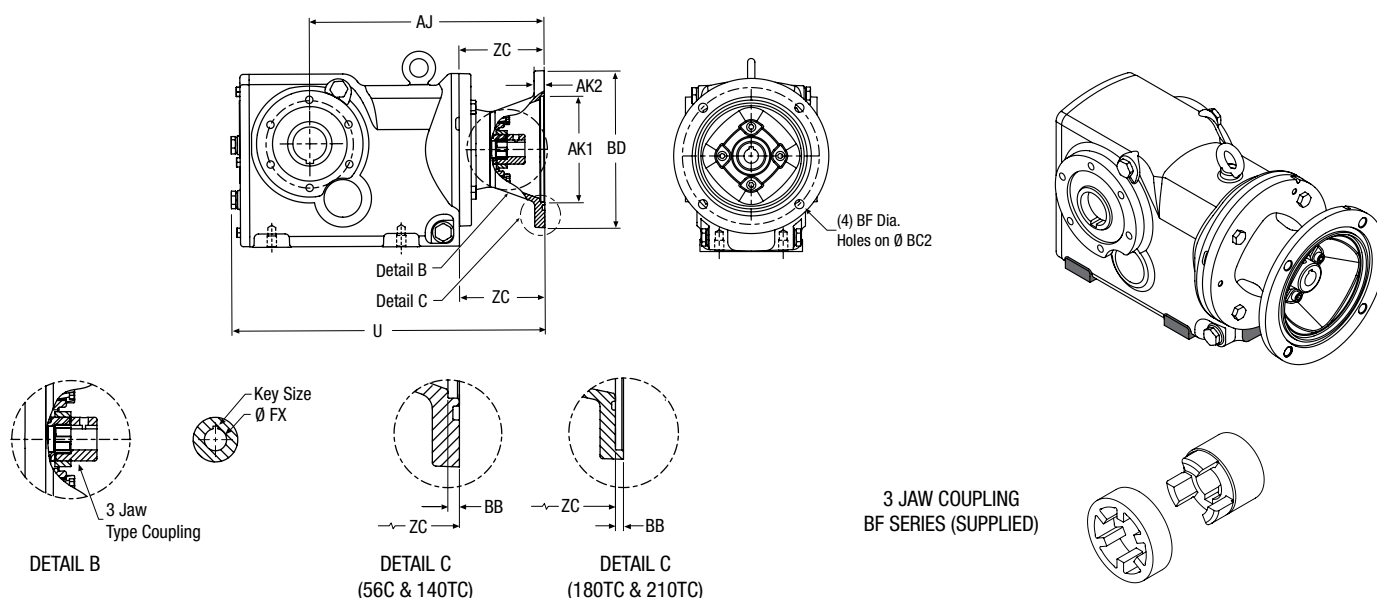
CATALOG NO.	A	B +/- 0.005 (+/- 0.13)	C	D	E +/- 0.010 (+/- 0.25)	F	L	G	H	J
SSRF2043R	7.4 (188)	4.400 (111.76)	9.7 (246)	0.83 (21.1)	2.210 (56.13)	2.756 (70.00)	5.512 (140.00)	4.42 (112.3)	3.03 (77.0)	6.06 (153.9)
SSRF2063R	8.9 (226)	5.510 (139.95)	11.4 (290)	0.90 (22.9)	2.630 (66.80)	3.460 (87.88)	5.984 (151.99)	5.25 (133.3)	3.50 (88.9)	7.00 (177.8)

CATALOG NO.	K1	K2	M +/- 0.005 (+/- 0.13)	N	P		T		BC1	W	Approx. Weight (LBS)
					Dia. (mm)	Depth	Dia. (mm)	Depth			
SSRF2043R	1.57 (39.9)	2.41 (61.3)	6.354 (161.39)	8.3 (211)	M10	0.65 (16.5)	M10	0.52 (13.3)	3.75 (95.3)	0.28 (7.1)	58
SSRF2063R	1.65 (41.9)	3.01 (76.6)	7.348 (186.64)	8.9 (226)	M12	0.78 (19.8)	M12	0.78 (19.8)	4.75 (120.6)	0.80 (20.3)	80

A2 SS2000R Series Helical Bevel Gear Drives

Motor Flange and Coupling Details

(Shown with Hollow Output Shaft Option)



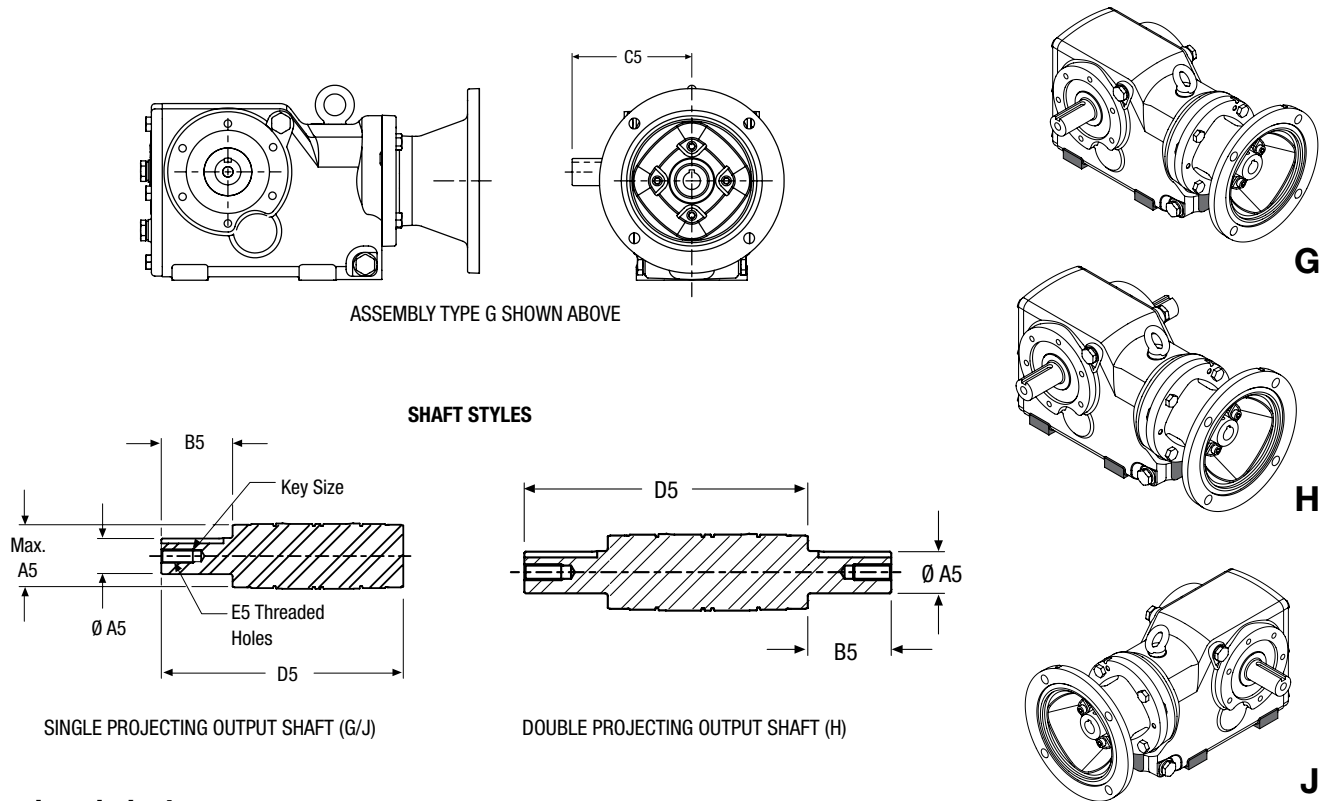
NEMA Sizes - Dimensions in inches (mm)

CATALOG NO.	INPUT SIZE	U	AJ	AK1	AK2	BB	BD	BF	BC2	ZC	FX	KEY SIZE	
												SQ.	LENGTH
SSRF2043R	B5 (56C)	13.3 (338)	10.0 (254)	4.500 (114.30)	0.43 (10.9)	0.18 (4.6)	6.69 (169.9)	0.39 (9.9)	5.88 (149.4)	3.62 (91.9)	0.625 (15.88)	3/16	1-3/8
	B7 (140TC)	14.3 (363)	10.9 (277)	4.500 (114.30)	0.47 (11.9)	0.18 (4.6)	6.69 (169.9)	0.39 (9.9)	5.88 (149.4)	4.54 (115.3)	0.875 (22.22)	3/16	1-3/8
	B9 (180TC)	15.7 (399)	12.4 (315)	8.500 (215.90)	0.59 (15.0)	0.20 (5.1)	8.98 (228.1)	0.53 (13.5)	7.25 (184.1)	6.00 (152.4)	1.125 (28.57)	1/4	1-3/4
	B11 (210TC)	17.8 (452)	14.4 (366)	8.500 (215.90)	0.59 (15.0)	0.20 (5.1)	8.98 (228.1)	0.53 (13.5)	7.25 (184.1)	8.08 (205.2)	1.375 (34.92)	5/16	2-3/8
SSRF2063R	B5 (56C)	14.5 (368)	10.5 (267)	4.500 (114.30)	0.43 (10.9)	0.18 (4.6)	6.69 (169.9)	0.39 (9.9)	5.88 (149.4)	3.14 (79.8)	0.625 (15.88)	3/16	1-3/8
	B7 (140TC)	15.5 (394)	11.4 (290)	4.500 (114.30)	0.47 (11.9)	0.18 (4.6)	6.69 (169.9)	0.39 (9.9)	5.88 (149.4)	4.06 (103.1)	0.625 (15.88)	3/16	1-3/8
	B9 (180TC)	17.0 (432)	12.9 (328)	8.500 (215.90)	0.59 (15.0)	0.20 (5.1)	8.98 (228.1)	0.53 (13.5)	7.25 (184.1)	5.52 (140.2)	1.125 (28.57)	1/4	1-3/4
	B11 (210TC)	19.0 (483)	15.0 (381)	8.500 (215.90)	0.59 (15.0)	0.20 (5.1)	8.98 (228.1)	0.53 (13.5)	7.25 (184.1)	7.60 (193.0)	1.375 (34.92)	5/16	2-3/8

IEC Sizes - Dimensions in mm

CATALOG NO.	PART NO. IDENTIFIER	FRAME SIZE	U	AJ	AK1	AK2	BB	BD	BF	BC2	ZC	FX	KEY SIZE	
													Sq.	Length
SSRF2043R	M14F	71	326	241	110	10.92	4.64	160	11.00	130	79.22	14	5x5	20
	M19F	80	355	270	130	11.94	4.64	200	13.50	165	108.66	19	6x6	25
	M24F	90S/90L	387	302	130	15.00	5.15	200	13.50	165	140.23	24	8x7	32
	M28F	100L/112M	432	347	180	16.51	5.15	250	15.50	215	185.67	28	8x7	40
SSRF2063R	M14F	71	356	254	110	10.92	4.64	160	11.00	130	67.13	14	5x5	20
	M19F	80	386	283	130	11.94	4.64	200	13.50	165	96.67	19	6x6	25
	M24F	90S/90L	417	315	130	15.00	5.15	200	13.50	165	128.14	24	8x7	32
	M28F	100L/112M	463	360	180	16.51	5.15	250	15.50	215	173.58	28	8x7	40

Output Options – Projecting Solid Output Shaft Details



Dimensions in inches

SIZE	PART NO. IDENTIFIER	A5	A5 Tolerance	Max. A5	B5	C5	D5	E5		KEY SIZE	
								Thread	Depth	SQ.	Length
2043R	D20	1.2500	+0 -0.0005	1.890	2.28	5.33	8.26	1/2-13	1.12	1/4	1-11/16
	D22	1.3750		1.890	2.68	5.73	8.66	1/2-13	1.12	5/16	1-13/16
2063R	D22	1.3750	+0 -0.0010	2.126	2.68	6.34	9.76	1/2-13	1.12	5/16	1-13/16
	D26	1.6250		2.126	3.07	6.73	10.15	5/8-11	1.38	3/8	2-1/4
	D32	2.0000		2.126	3.86	7.52	10.94	3/4-10	1.61	1/2	2-5/8

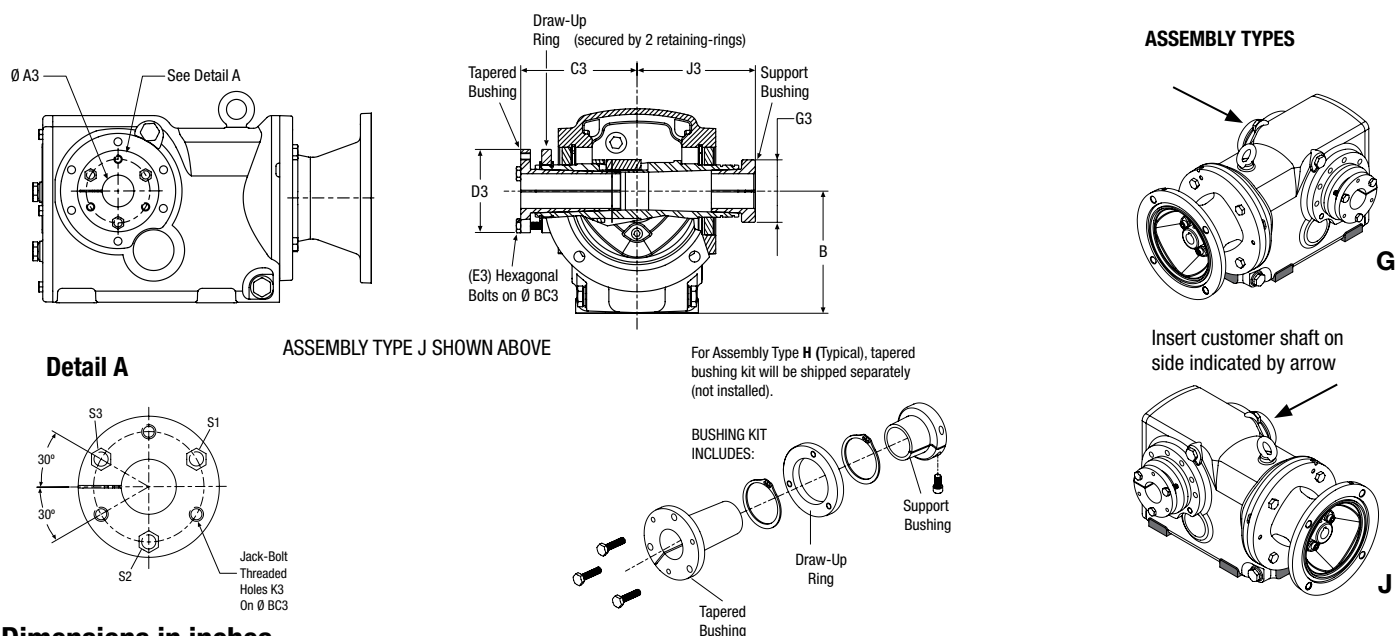
Dimensions in mm

SIZE	PART NO. IDENTIFIER	A5	A5 Tolerance	Max. A5	B5	C5	D5	E5		KEY SIZE	
								Thread	Depth	Rect.	Length
2043R	DM30	30.000	-0.015 -0.002	48	58	135.3	209.9	M10	22.0	8 X 7	50
	DM35	35.000		48	68	145.3	219.9	M12	28.0	10 X 8	56
2063R	DM35	35.000	-0.018 -0.002	54	68	161.0	247.8	M12	28.0	10 X 8	56
	DM40	40.000		54	78	171.0	257.8	M16	36.0	12 X 8	70
	DM50	50.000		54	98	191.0	277.8	M16	36.0	14 X 9	80

Output shaft key is provided with gear drive. Customer's driven shaft requires standard width and depth keyway.

A2 SS2000R Series Helical Bevel Gear Drives

Output Options – Tapered Bushing Hollow Output Shaft Details



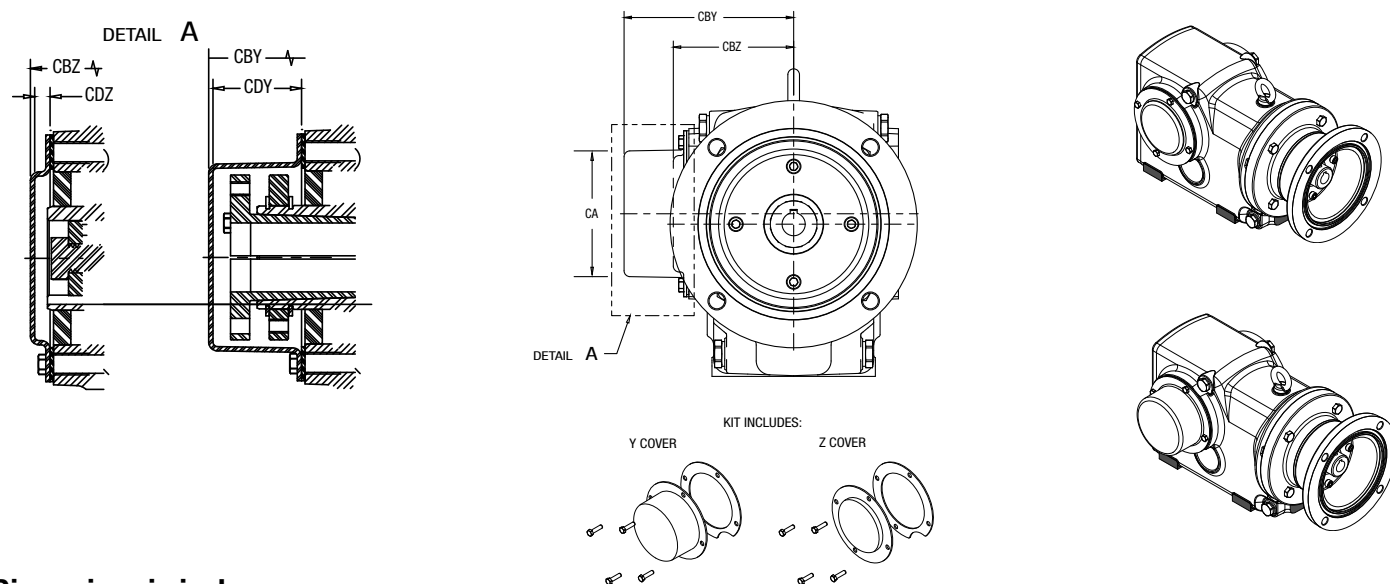
Dimensions in inches

PART NO. IDENTIFIER	TYPE	DRIVEN SHAFT DIA. +/- 0.002	B	C3	D3	E3		BC3	G3	J3	K3	KIT PART #
						SPEC.	LENGTH					
2043R	TP20	1.250	4.40	4.19	3.00	1/4-20	1.13	2.50	2.50	4.29	1/4-20	2040R-63K-P20
2063R	TP23	1.438	5.51	5.01	3.94	3/8-16	1.38	3.00	3.00	5.23	3/8-16	2060R-63K-P23

Bolt Tightening Sequence Table

PART NO. IDENTIFIER	STEP 1 Apply Initial Torque - ft.lbs.			STEP 2 Apply Secondary Torque - ft.lbs.			STEP 3 Apply Final Torque - ft.lbs.		
	S1	S2	S3	S1	S2	S3	S1	S2	S3
2043R	2.7	2.7	2.7	5.5	5.5	5.5	9.0	9.0	9.0
2063R	7.5	7.5	7.5	15	15	15	30	30	30

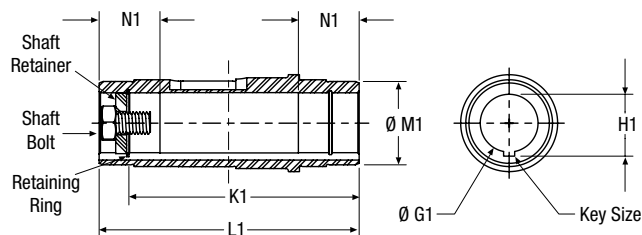
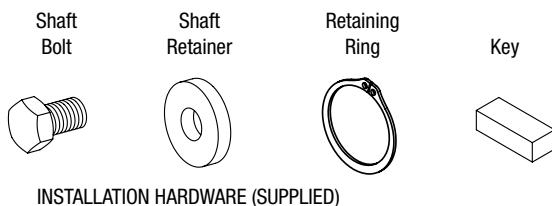
Shaft Covers



Dimensions in inches

SIZE	TYPE	CA	CBY	CDY	Y-KIT PART #	CBZ	CDZ	Z-KIT PART #
SS2040R	TP20	3.40	4.59	1.61	2043R-33-A-K	3.26	0.28	2043R-33-B-K
SS2060R	TP23	4.34	5.43	1.95	2063R-33-A-K	3.70	0.22	2063R-33-B-K

Output & Mounting Options – Hollow Output Shaft Details



Dimensions in inches

SIZE	PART NO. IDENTIFIER	G1 +0.0005/ +0.0015	Key Size		H1	Shaft Bolt		K1	L1	M1	N1
			Sq.	Length		Spec.	Length				
2043R	P20	1.2500	1/4	FULL LENGTH	1.37	7/16-14	1	5.30	6.06	1.89	1.460
	P22	1.3750	5/16		1.53	1/2-13	1				
2063R	P23	1.4375	3/8		1.61	1/2-13	1	6.40	7.16	2.13	1.460
	P24	1.5000	3/8		1.68	5/8-11	1.75				

Dimensions in mm

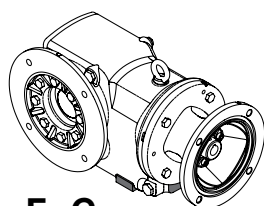
SIZE	PART NO. IDENTIFIER	G1	Key Size		H1	Shaft Bolt		K1	L1	M1	N1
			Rect.	Length		Spec.	Length				
2043R	PM30	30.00	8x7	FULL LENGTH	33.4	M16 X 1.5	30	134.6	153.9	48.0	37.08
	PM35	35.00	10x8		38.4						
2063R	PM40	40.00	12x8		43.4			162.6	181.9	54.0	37.08

Output shaft key is provided with gear drive. Customer's driven shaft requires standard width and depth keyway.

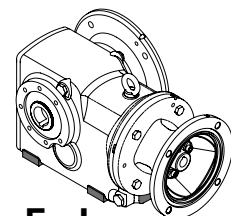
Output Flange Details

ASSEMBLY TYPES

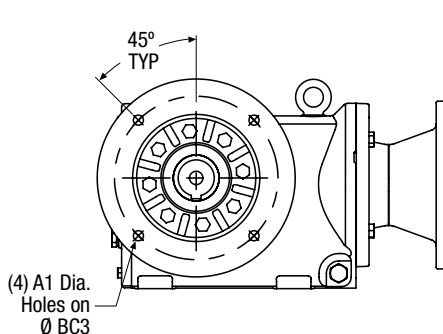
Shown with hollow output shaft option



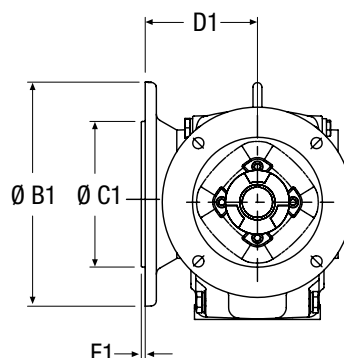
F...G



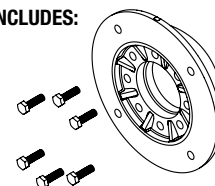
F...J



Assembly Type G shown above



KIT INCLUDES:



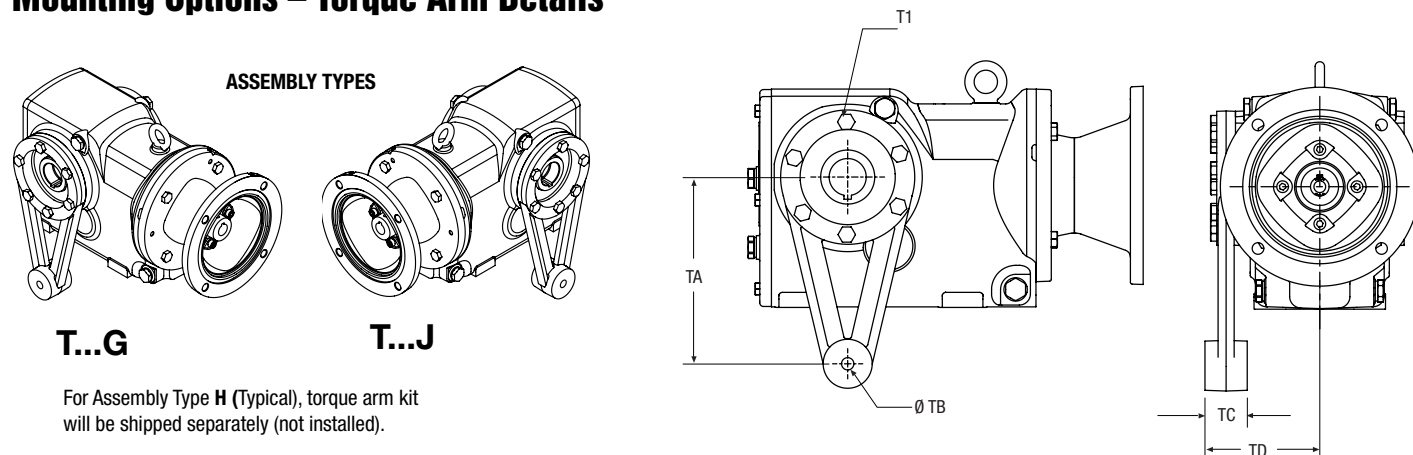
Dimensions in inches (mm)

SIZE	A1	BC3	B1	C1 +0 / -0.001 (+0 / -0.03)	D1	E1	KIT PART #
SSRF2043R-F	0.43 (10.9)	6.50 (165)	7.87 (200)	5.119 (130)	3.94 (100)	0.14 (3.6)	SS2040R-21K-200
SSRF2063R-F	0.53 (13.5)	8.46 (215)	9.84 (250)	7.087 (180)	4.45 (113)	0.16 (4.1)	SS2060R-21K

Note: Output flange will be shipped assembled to gear drive, unless ordered separately using the kit part number.

A2 SS2000R Series Helical Bevel Gear Drives

Mounting Options – Torque Arm Details



Dimensions in inches

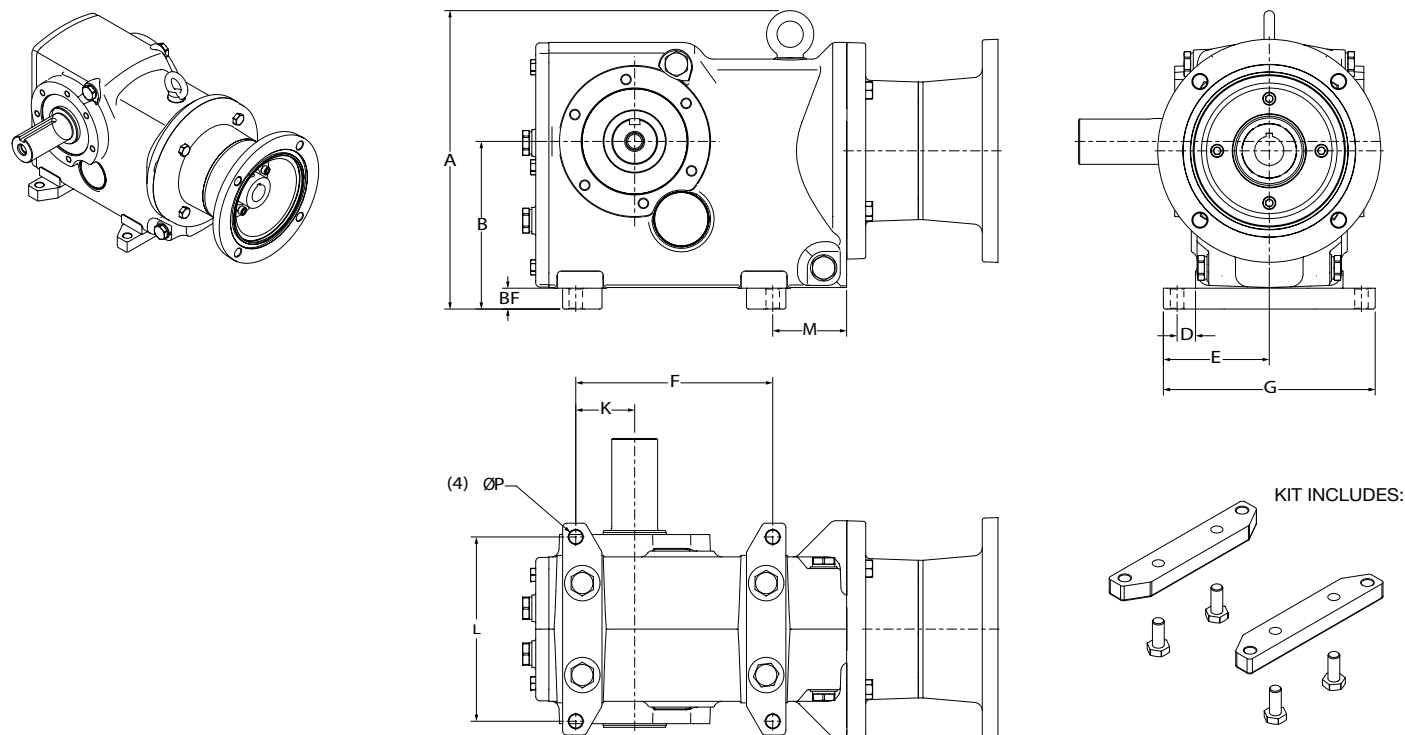
SIZE	TA	T1 (mm)		TB	TC	TD	Degrees of Rotation
		Spec.	Length				
SSRF2043R-T	6.30	M10	25	0.42	1.1	3.63	60°
SSRF2063R-T	7.87	M12	30	0.66	1.5	4.45	60°

KIT PART #
SS2040R-76K
SS2060R-76K

Early versions of this design were manufactured from plate with welded gussets which have a "TD" dimension of 3.54" (For SSRF2043R-T) and 4.30" (For SSRF2063R-T). Note: To avoid damage during transit, all torque arms will be shipped disassembled from gear drive.

Base Mounting Feet Details

Shown with solid output shaft option (Assembly Type G)



Dimensions in inches

SIZE	A	B	M	BF	D	E	G	F	L	K	P
SSRF2043R-B	8.95	5.03	2.22	0.63	0.55	3.18	6.35	5.90	5.53	1.77	0.41
SSRF2063R-B	9.87	6.15	2.38	0.64	0.63	3.71	7.42	7.25	6.51	2.28	0.49

KIT PART #
SS2040R-11HK
SS2060R-11HK

* Kit Part # can be used if ordering separately.

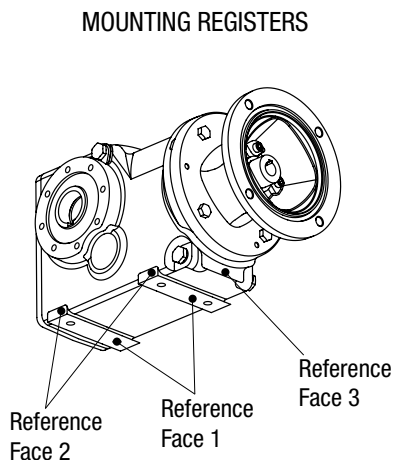
Mounting Registers (Standard Feature)

Mounting Registers on the 2000 Series products enable a simpler installation for Base Mounted units.

Use the following steps to assist in the alignment between the reducer output shaft and the shaft being driven (driven shaft).

1. Establish a reference edge that is parallel to the driven shaft using Dimension M from page 20 as the offset.
2. Bank Reference Face 3 of the reducer against your reference edge.
3. Use Reference Face 2 of the reducer for any fine angular (yaw) or lateral adjustments.

Contacting thumbscrews against Reference Face 2 is a clever method for higher precision alignment requirements.



Tapered Bushing Option

The Tapered Bushing is a valuable option that ensures a simple and secure installation for Shaft Mounted units.

Use the following steps to assist in the alignment between the reducer output shaft and the shaft being driven (driven shaft). See page 23 for additional reference.

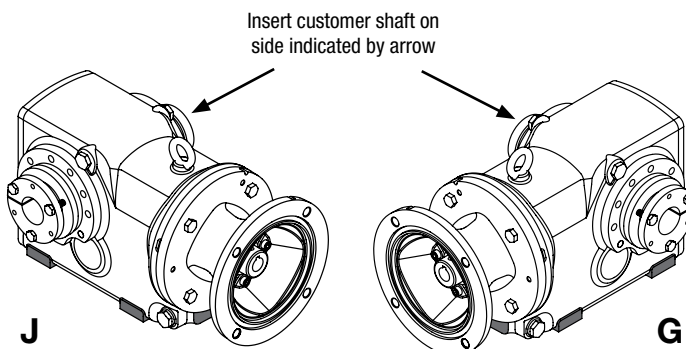
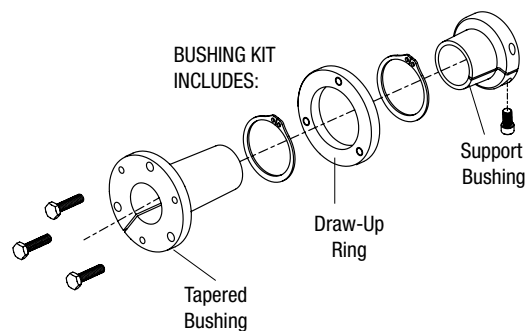
1. Make a score mark on your Driven Shaft at a length equal to the Table 1 dimension from the mounting end.
2. Slide Support Bushing onto driven shaft, flange first, until the flange reaches the score mark & secure with clamp screw.
3. Mount Reducer onto Driven Shaft allowing it to slide through the Tapered Bushing on the opposite end.

Expect the Tapered Bushing to be pushed outward from the reducer as it expands inside the outer bore.

4. Align the holes between the Tapered Bushing and the Draw-Up Ring.
5. Using a mallet, tap the Tapered Bushing inward until the bolts are able to engage the Draw-Up Ring threads.
6. Tighten bolts evenly in sequence indicated in Bolt Tightening Sequence Table on page 23.
7. Readjust Support Bushing as needed to ensure full engagement of taper and re-secure clamp screw.

Table 1

	Used Length of Driven Shaft	
	(in)	(mm)
2043R	8.48	216
2063R	10.24	260



Ratios and Performance

4 Reductions

■ Available Options ○ Optional

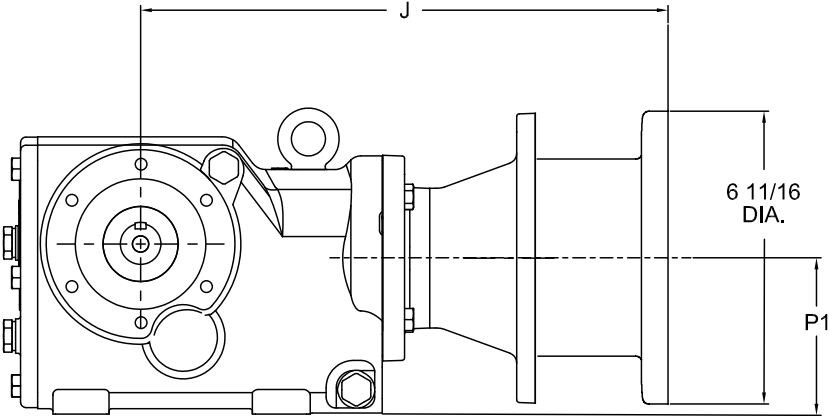
Model No.	Output Speed (1750 rpm Input)	Actual Ratio	Ratio used in Part No.	Input Power (HP)	Output Torque Rating (lbf-in)	NEMA C-Face Input
						B5
SSRFPW2043R	12	146.50	147	0.72	3580	■
	12	151.15	151	0.7	3590	■
	10	176.95	177	0.6	3610	■
	8.8	198.05	198	0.54	3620	■
	7.5	232.05	232	0.46	3640	■
	7.2	243.75	244	0.44	3650	■
	6.2	284.15	284	0.38	3660	■
	5.5	316.50	317	0.34	3680	■
	4.9	354.45	354	0.3	3690	■
	4.7	376.00	376	0.3	3700	■
	4.1	425.60	426	0.25	3710	■
	3.9	454.30	454	0.24	3720	■
	3.4	521.85	522	0.21	3730	■
	2.9	607.40	607	0.18	3750	■
	2.7	659.35	659	0.16	3750	■
SSRFPW2063R	12	151.05	151	0.75	8340	■
	10	178.05	178	0.75	6340	■
	9.1	191.95	192	0.75	7540	■
	7.9	221.60	222	0.75	7570	■
	7.2	243.85	244	0.75	7600	■
	6.1	284.85	285	0.75	7630	■
	5.9	298.35	298	0.75	7650	■
	5.1	344.75	345	0.65	7670	■
	4.6	381.85	382	0.59	7690	■
	3.9	450.20	450	0.5	7720	■
	3.5	507.15	507	0.45	7740	■
	3.2	540.15	540	0.42	7750	■
	2.8	617.70	618	0.37	7770	■
	2.4	716.00	716	0.32	7790	■

Ratings shown reflect maximum gear capacity based on AGMA Standards (Service Factor = 1.0) with Klybersynth UH1 6-460.

For input speeds above 1750 RPM, do not exceed maximum listed input horsepower.

Not recommended for use in applications with repetitive vibrational or impact loading.

4 Reductions

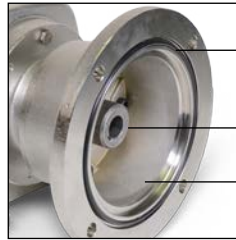


Size	NEMA C-Face Input	J	P1
SSRFWP2043R	B5	15.1	4.12
SSRFWP2063R	B5	15.6	4.71

SS2000 Series Helical Inline Gear Drives **B1**



Laser marked nameplate provides worry-free part identification while maintaining a smooth, unetched surface



Integrated o-rings

3-Jaw Coupling

NEMA or IEC C-Face motor input with 3-Jaw coupling



Larger shaft diameters available

303 Stainless Steel Shaft

H1 Food grade Klubersynth UH1 6-460 maximizes torque capacity and efficiency



Unique **Mounting Registers** allow for quick precision alignment

The **Original Domed Crown™** unique rounded housing prevents foreign matter adherence and fluid accumulation

Field installable piloted output flange for mounting flexibility

Stainless Steel Exterior
316 Castings
303/304 Machined Components

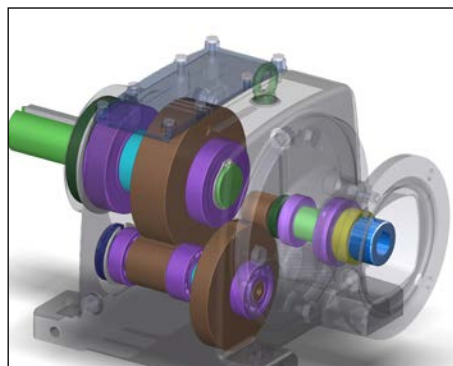
Polished matte finish maintains clean appearance throughout operation

Optional high pressure washdown seal available*

Large diameter oil fill/drain holes for faster oil change

NEMA or IEC C-Face motor input with 3-Jaw coupling

Rare-Earth Magnets near gear mesh provide automatic entrapment of wear debris ensuring longer life



Energy Efficient Design

With efficiency of 98% per gear mesh, Series 2000 Inline Helical Gear Drives and Gear Motors are ideal for use in applications with:

- continuous or high duty cycle operations
- high-ratio reduction
- limited access applications where long life is a necessity

Ask about our Bauer Line of Stainless Steel Gearmotors



B1 SS2000 Series Helical Inline Gear Drives

Ordering Information

Example: **SSRF2053F-65KC-B7-S-2-D22-HUTFSS-9**

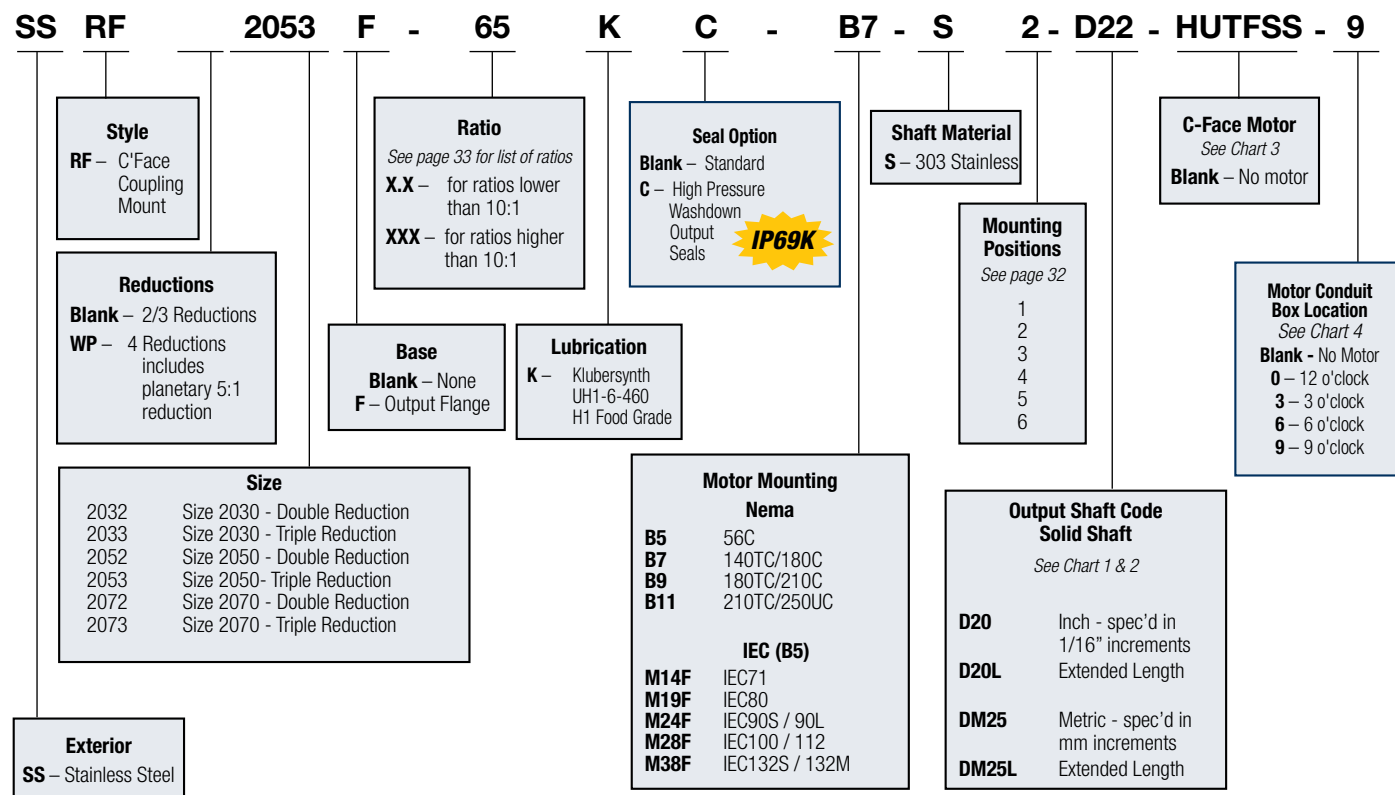


Chart 1: Solid Output Shaft Codes – Inch Sizes

Nominal Bore Diameter	Output Shaft Code	2032/2033	2052/2053	2072/2073	Decimal Size	Key Size
1	D16	S			1.0000	.25x.25x1.31
1-1/8	D18	•			1.1250	.25x.25x1.64
1-3/16	D19	•			1.1875	.25x.25x1.65
1-1/4	D20	S	S		1.2500	.25x.25x1.66
1-3/8	D22		S		1.3750	.31x.31x1.81
1-7/16	D23		•		1.4375	.38x.38x2.00
1-1/2	D24		•		1.5000	.38x.38x2.00
1-5/8	D26		S	S	1.6250	.38x.38x2.25
1-3/4	D28			S	1.7500	.38x.38x2.75
1-15/16	D31			•	1.9375	.50x.50x2.00
2	D32			S	2.0000	.50x.50x2.62

S = Standard • = Optional

Additional shaft diameter sizes available upon request.

Output shaft key is provided with gear drive.

Customer's driven shaft requires standard width and depth keyway.

Chart 2: Solid Output Shaft Codes – Metric Sizes

Nominal Bore Diameter (mm)	Output Shaft Code	2032/2033	2052/2053	2072/2073	Decimal Size	Key Size
25	DM25	S			25.00	8x7x40
30	DM30	S	S		30.00	8x7x50
35	DM35		S		35.00	10x8x56
40	DM40		S	S	40.00	12x8x70
50	DM50			S	50.00	14x9x80

Additional shaft diameter sizes available upon request.

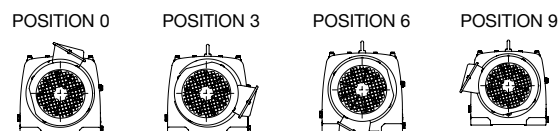
Chart 3: Stainless Steel AC Motors

Part #	HP	Type	Frame Size
FUT-SS	0.5	TENV	56C
GUT-SS	0.75	TENV	56C
HUT5/8-SS	1.0	TENV	56C
HUTF5/8-SS	1.0	TEFC	56C
HUT-SS	1.0	TENV	140TC
HUTF-SS	1.0	TEFC	140TC
JUTF-SS	1.5	TEFC	140TC
KUTF-SS	2.0	TEFC	140TC
LUTF-SS	3.0	TEFC	180TC
MUTF-SS	5.0	TEFC	180TC
KUTF-SS	7.5	TEFC	210TC
PUTF-SS	10.0	TEFC	210TC

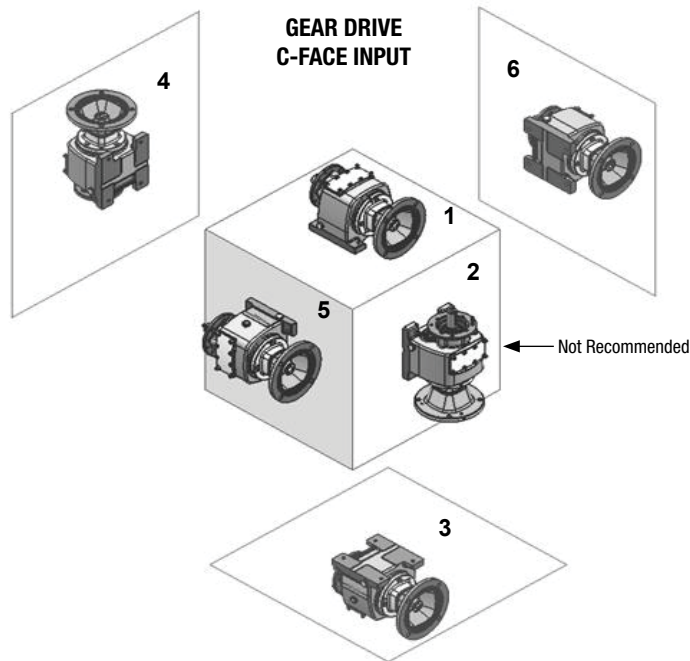
TENV = Totally enclosed, non-ventilated

TEFC = Totally enclosed, fan-cooled

Chart 4: Conduit Box Locations



Mounting Positions & Lubrication



Lubrication

Klubersynth UH1 6-460 is recommended for the SS2000 Series gear drives for optimum performance. Normal full-load operating temperatures range between 130°F -150°F. During initial break-in of the gear drive, higher than normal operating temperatures may result. All gear drives are supplied with UH1 6-460 synthetic oil (unless specified otherwise) with quantity listed below for standard mounting position 1 or to mounting specified at time of order. These gear drives are designed with internal features to

reduce the impact of metallic wear debris, which should increase maintenance intervals. Relubrication is recommended for 10,000 hours or more frequently when operating in highly contaminated environments. Satisfactory performance may be obtained in some applications with non-synthetic oils, but will require more frequent oil changes. Recommendations are based on input speed of 1800 RPM nominal. For higher input speeds, consult factory.

RECOMMENDED LUBRICANT	Reducer Designation	Ambient (Room) Temperature	ISO Viscosity Grade No.	Viscosity Range SUS @ 100F	Part Number (Quart)	Comments
Klubersynth UH1 6-460 Synthetic	K	-20°F to +225°F (-29°C to 107°C)	460	1950/2500	65159	H1 Food-Grade

Notes: Upper temperature limit is dictated by reducer components and not the oil.

	Mounting Position					
	1	2	3	4	5	6
Plug A	Opt. Vent	Opt. Vent	Oil Drain	Oil Drain	Oil-Fill	—
Plug B	—	Oil-Fill	Oil-Fill	—	Oil Drain	Oil-Fill
Plug C	Oil-Fill	—	—	—	Opt. Vent	Oil Drain
Plug D	Oil Drain	Oil Drain	Opt. Vent	Oil-Fill	Opt. Vent	Oil Drain

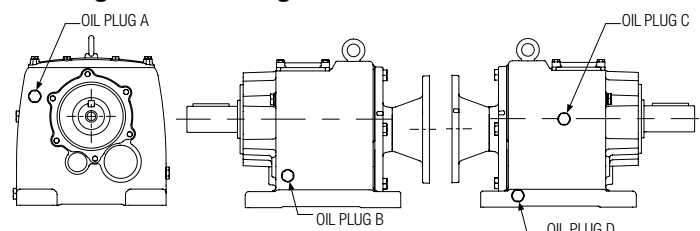
Notes:

- Oil-Fill** Plugged from factory. Port used during regular maintenance intervals for Oil-Fill. Defines approximate oil-level during operation.
 - Opt. Vent** Plugged from factory. A 5psi pressure vent plug is supplied uninstalled with each product. Defines optional location for installation of that pressure vent.
 - Oil Drain** Plugged from factory. Port used during regular maintenance intervals for draining used oil. Re-plug prior to oil-fill.
 - Position 2*** Not preferred and not recommended as a Mounting Position
 - Position 4*** Consult factory for venting options.
 - Position 6*** Consult factory for venting options.
- All products supplied from factory lubed for Position 1 unless specified otherwise

Lube Capacity in Quarts

	Mounting Position					
	1	2	3	4	5	6
2032/2033	0.5	1.25	1.13	1.2	0.79	1.2
2052/2053	0.88	1.75	2.25	2.63	2.25	2.25
2072/2073	2.1	4.12	2.51	5.1	2.51	2.51

Oil Plug and Vent Plug Location Details



Ratios and Performance

2 and 3 Reductions

■ Standard ○ Optional

Model No.	Output Speed (RPM)	Actual Ratio	Ratio used in Part No.	Input Power (HP)	Output Torque Rating (lb-in)	NEMA C-Face Input				IEC C-Face Input				
						B5	B7	B9	B11	M14F	M19F	M24F	M28F	M38F
SSRF2032 (2 Reductions)	590	2.97	3.0*	10.6	1,080	■	■	○		■	■	○		
	513	3.41	3.4*	8.7	1,020	■	■	○		■	■	○		
	429	4.05	4.1*	7.7	1,090	■	■	○		■	■	○		
	407	4.32	4.3*	7.5	1,110	■	■	○		■	■	○		
	346	5.06	5.1*	6.9	1,220	■	■	○		■	■	○		
	309	5.67	5.7*	6.5	1,270	■	■	○		■	■	○		
	258	6.67	6.8	5.3	1,230	■	■	○		■	■	○		
	219	7.97	8.0	5.2	1,420	■	■	○		■	■	○		
	183	9.47	9.5	4.6	1,520	■	■	○		■	■	○		
	174	10.11	10	4.5	1,560	■	■	○		■	■	○		
	148	11.83	12	4.1	1,660	■	■	○		■	■	○		
	132	13.25	13	3.8	1,730	■	■	○		■	■	○		
	110	15.60	16	3.4	1,840	■	■	○		■	■	○		
	97	18.05	18	2.9	1,830	■	■			■	■			
	91	19.31	19	2.8	1,870	■	■			■	■			
	79	22.27	22	2.4	1,830	■	■			■	■			
	67	26.03	26	2.0	1,760	■	■			■	■			
	62	28.32	28	1.8	1,780	■	■			■	■			
SSRF2033 (3 Reductions)	73	24.13	24	2.2	1,840	■	■			■	■			
	61	28.73	29	1.9	1,860	■	■			■	■			
	54	32.40	32	1.7	1,860	■	■			■	■			
	48	36.72	37	1.5	1,860	■	■			■	■			
	45	39.17	39	1.4	1,860	■	■			■	■			
	39	44.81	45	1.2	1,860	■	■			■	■			
	36	48.08	48	1.1	1,860	■	■			■	■			
	31	55.76	56	1.0	1,860	■				■				
	29	61.18	61	0.90	1,860	■				■				
	25	69.33	69	0.79	1,860	■				■				
	24	73.96	74	0.74	1,860	■				■				
	21	84.61	85	0.65	1,860	■				■				
	19	90.77	91	0.60	1,860	■				■				
	17	105.28	105	0.52	1,860	■				■				
	14	123.66	124	0.44	1,860	■				■				
	13	134.82	135	0.41	1,860	■				■				
	542	3.23	3.2	20	2,240	○	○	■	■	○	○	■	■	○
SSRF2052 (2 Reductions)	472	3.71	3.7	18.5	2,370	○	○	■	■	○	○	■	■	○
	399	4.39	4.4	16.8	2,550	○	○	■	■	○	○	■	■	○
	347	5.05	5.0	15.9	2,780	○	○	■	■	○	○	■	■	○
	300	5.82	5.8	14.5	2,930	○	○	■	■	○	○	■	■	
	273	6.41	6.4*	13.7	3,030	■	■	■	■	■	■	■	■	
	234	7.49	7.5*	12.3	3,180	■	■	■	■	■	■	■	■	
	223	7.84	7.8*	11.7	3,180	■	■	■	■	■	■	■	■	
	193	9.06	9.1*	10.4	3,260	■	■	■	■	■	■	■	■	
	187	9.35	9.4	10.5	3,390	■	■	■	■	■	■	■	■	
	162	10.79	11	9.5	3,540	■	■	■	■	■	■	■	■	
	147	11.88	12*	8.9	3,670	■	■	■	■	■	■	■	■	
	126	13.88	14*	8.1	3,890	■	■	■	■	■	■	■	■	
	120	14.53	15*	7.8	3,930	■	■	■	■	■	■	■	■	
	104	16.79	17*	7.1	4,130	■	■	■	■	■	■	■	■	
	94	18.60	19*	6.4	4,130	■	■	■	■	■	■	■	■	
	80	21.93	22	5.3	3,980	■	■	■	■	■	■	■	■	
	71	24.70	25	4.7	4,060	■	■	■	■	■	■	■	■	
	67	26.31	26	4.5	4,070	■	■	■	■	■	■	■	■	
SSRF2053 (3 Reductions)	65	26.97	27	4.5	4,090	○	○	■	■	○	○	■	■	
	58	30.18	30	4.1	4,150	■	■	■	■	■	■	■	■	
	49	35.36	35	3.5	4,190	■	■	■	■	■	■	■	■	
	47	37.14	37	3.2	4,050	■	■	■	■	■	■	■	■	
	40	43.30	43	2.8	4,100	■	■			■	■			
	36	48.23	48	2.5	4,100	■	■			■	■			
	32	54.01	54	2.2	4,090	■	■			■	■			
	31	57.29	57	2.1	4,080	■	■			■	■			
	27	64.85	65	1.8	3,990	■	■			■	■			
	25	69.23	69	1.7	3,940	■	■			■	■			
	22	80.55	81	1.5	4,190	■	■			■	■			
	20	89.71	90	1.4	4,150	■	■			■	■			
	17	100.46	100	1.2	4,220	■	■			■	■			
	16	106.58	107	1.1	4,130	■	■			■	■			
	15	120.63	121	1.0	4,160	■				■				
	14	128.77	129	0.95	4,120	■				■				
	12	147.92	148	0.84	4,210	■				■				
	10	172.17	172	0.71	4,170	■				■				
	9	186.89	187	0.66	4,190	■				■				

Ratings shown reflect maximum gear capacity based on AGMA standards (service factor = 1.0) with Klubersynth UH1-6-460.

For input speeds above 1750 RPM, Do not exceed maximum listed input horsepower.

* Depending on the input option chosen, reducer ratios denoted with * may have an overall capacity lower than the values shown (values represent gear capacity). Contact factory for details

■ Standard ○ Optional

2 and 3 Reductions

Ratios and Performance

Model No.	Output Speed (RPM)	Actual Ratio	Ratio used in Part No.	Input Power (HP)	Output Torque Rating (lb-in)	NEMA C-Face Input					IEC C-Face Input					
						B5	B7	B9	B11	B13	M14F	M19F	M24F	M28F	M38F	M42F
SSRF2072 (2 Reductions)	407	4.29	4.3*	30	4,430			■	■	○			■	■	○	○
	361	4.84	4.8*	27	4,500			■	■	○			■	■	○	○
	329	5.31	5.3	25	4,640			■	■	○			■	■	○	○
	292	5.99	6.0	24	4,920			■	■	○			■	■	○	○
	258	6.79	6.8	22	5,280			■	■	○			■	■	○	○
	226	7.74	7.7	21	5,530			■	■	○			■	■	○	○
	207	8.45	8.5*	18.5	5,420			■	■	○			■	■	○	○
	182	9.64	9.6	17.2	5,730			■	■	○			■	■	○	○
	161	10.88	11	16.1	6,040			■	■	○			■	■	○	○
	142	12.33	12	14.8	6,310			■	■				■	■		
	125	14.05	14	13.5	6,580			■	■				■	■		
	114	15.34	15*	12.6	6,670	■	■	■	■		■	■	■	■		
	99	17.73	18*	11.6	7,110	■	■	■	■		■	■	■	■		
	95	18.51	19*	10.9	6,970	■	■	■	■		■	■	■	■		
	83	21.21	21*	10.1	7,380	■	■	■	■		■	■	■	■		
SSRF2073 (3 Reductions)	75	23.37	23*	9.2	7,440	■	■	■	■		■	■	■	■		
	69	25.23	25	8.2	7,050	○	○	■	■		○	○	■	■		
	60	29.00	29	7.5	7,410	○	○	■			○	○	■			
	52	33.47	33	6.6	7,450	○	○	■			○	○	■			
	48	36.83	37	6.0	7,500	■	■	■			■	■	■			
	41	43.03	43	5.0	7,340	■	■	■			■	■	■			
	39	45.06	45	4.7	7,250	■	■	■			■	■	■			
	34	52.07	52	4.2	7,390	■	■	■			■	■	■			
	30	57.68	58	3.8	7,370	■	■	■			■	■	■			
	27	65.77	66	3.3	7,470	■	■	■			■	■	■			
	23	76.82	77	2.9	7,630	■	■				■	■				
	22	80.46	80	2.7	7,240	■	■				■	■				
	19	92.97	93	2.4	7,480	■	■				■	■				
	17	102.99	103	2.1	7,330	■	■				■	■				
	14	121.42	121	1.8	7,480	■	■				■	■				
	13	136.78	137	1.7	7,740	■	■				■	■				
	12	145.67	146	1.5	7,570	■	■				■	■				
	11	166.59	167	1.3	7,590	■					■	■				
	9	193.10	193	1.2	7,560	■					■	■				

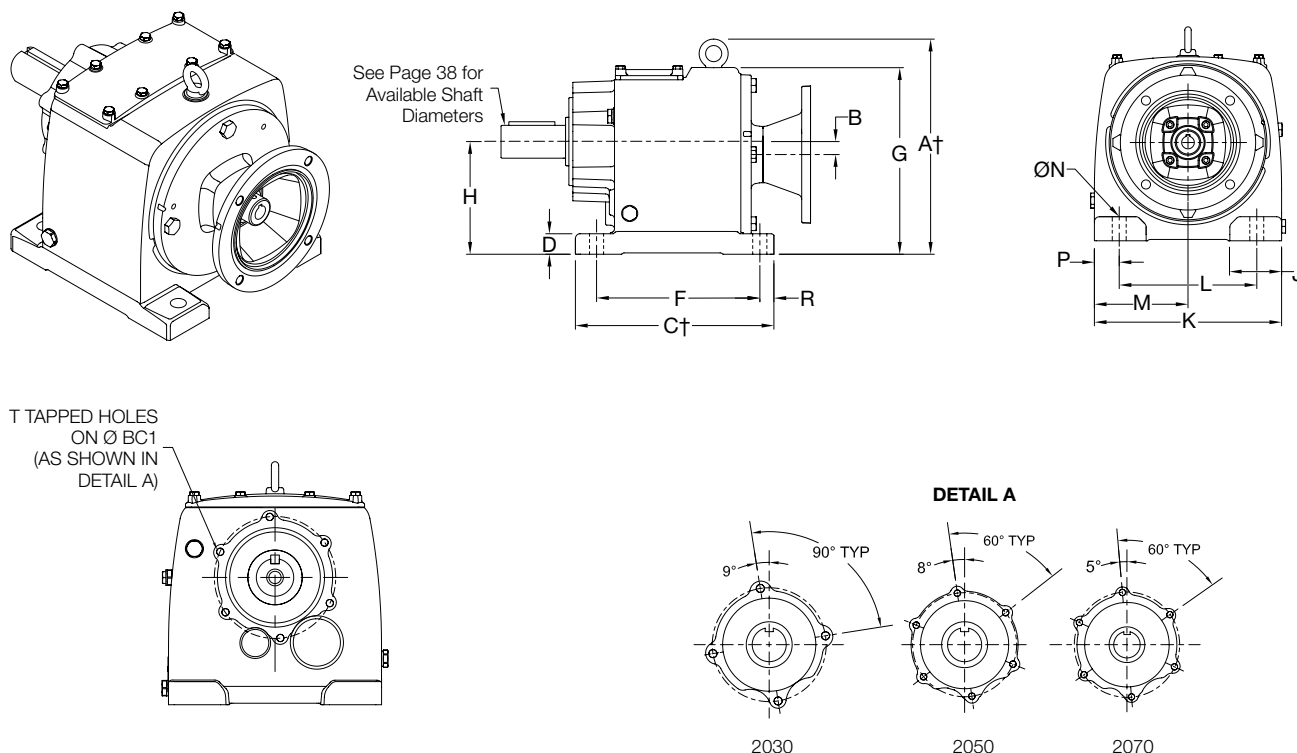
Ratings shown reflect maximum gear capacity based on AGMA standards (service factor = 1.0) with Klubersynth UH1-6-460.

For input speeds above 1750 RPM, do not exceed maximum listed input horsepower.

* Depending on the input option chosen, reducer ratios denoted with * may have an overall capacity lower than the values shown (values represent gear capacity). Contact factory for details

B1 SS2000 Series Helical Inline Gear Drives

Mounting Details



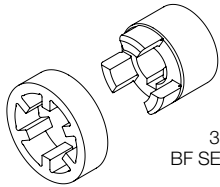
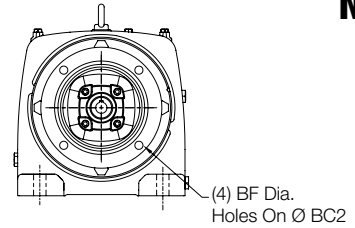
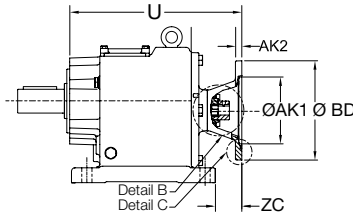
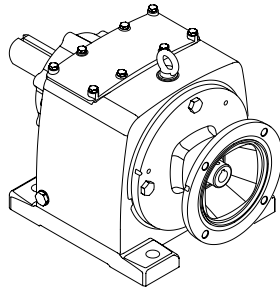
Dimensions in inches (mm)

SIZE	A	B	C	D	F	L	G	H +/-0.010 (+/-0.25)	J	K
SSRF2032 SSRF2033	-	0.39 (10.0)	6.30 (160.0)	0.71 (18.0)	5.12 (130.0)	4.33 (110.0)	5.90 (149.9)	3.530 (89.66)	1.60 (40.5)	6.28 (159.5)
SSRF2052 SSRF2053	8.80 (223.6)	0.45 (11.4)	7.83 (198.8)	0.80 (20.3)	6.50 (165.1)	5.31 (134.9)	7.34 (186.4)	4.520 (114.81)	2.41 (61.2)	7.95 (202.0)
SSRF2072 SSRF2073	10.50 (266.8)	0.63 (16.1)	9.69 (246.1)	1.00 (25.4)	8.07 (205.0)	6.69 (169.9)	9.12 (231.5)	5.500 (139.70)	2.51 (63.8)	9.25 (235.1)

SIZE	M +/-0.010 (+/-0.25)	N	P +/-0.010 (+/-0.25)	R +/-0.010 (+/-0.25)	T		BC1	APPROX. WEIGHT LBS (Kg)
					DIA(mm)	DEPTH		
SSRF2032 SSRF2033	3.140 (79.76)	0.35 (8.9)	0.974 (24.74)	0.527 (13.39)	M6	0.39 (10.0)	3.33 (84.5)	33 (15)
SSRF2052 SSRF2053	3.977 (101.02)	0.53 (13.5)	1.322 (33.58)	0.645 (16.38)	M6	0.39 (10.0)	3.80 (96.5)	53 (24)
SSRF2072 SSRF2073	4.627 (117.53)	0.68 (17.4)	1.282 (32.56)	0.715 (18.16)	M8	0.52 (13.3)	5.25 (133.4)	82 (37)

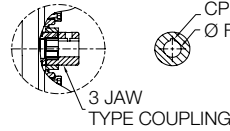
Note: Refer to Page 38 for Shaft details.
† Dimensions A and C are reference dimensions.

Motor Flange and Coupling Details NEMA

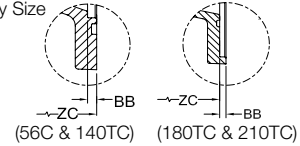


3 JAW COUPLING
BF SERIES (SUPPLIED)

DETAIL B



DETAIL C



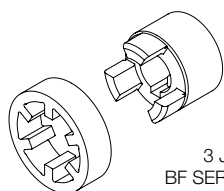
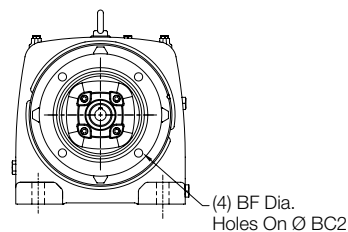
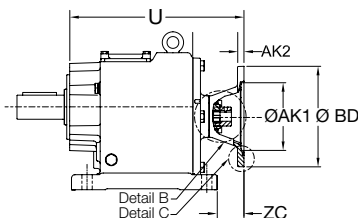
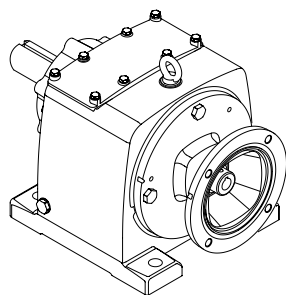
Dimensions in inches (mm)

INPUT SIZE		U	AK1 +0.005/-0 (+0.13/-0)	AK2	BB	BD	BF	BC2	ZC	FX	CPL KEY SIZE (INCHES)	
											SQ.	LENGTH
SSRF2032 SSRF2033	B5 (56C)	9.74 (247.4)	4.500 (114.30)	0.430 (10.92)	0.183 (4.64)	6.686 (169.82)	0.391 (9.93)	5.875 (149.23)	3.10 (78.7)	0.625 (15.88)	3/16	1-3/8
	B7 (140TC)	10.64 (270.3)	4.500 (114.30)	0.470 (11.94)	0.183 (4.64)	6.686 (169.82)	0.391 (9.93)	5.875 (149.23)	4.00 (101.6)	0.875 (22.23)	3/16	1-3/8
SSRF2052 SSRF2053	B5 (56C)	10.74 (272.8)	4.500 (114.30)	0.430 (10.92)	0.183 (4.64)	6.686 (169.82)	0.391 (9.93)	5.875 (149.23)	2.40 (61.0)	0.625 (15.88)	3/16	1-3/8
	B7 (140TC)	11.64 (295.7)	4.500 (114.30)	0.470 (11.94)	0.183 (4.64)	6.686 (169.82)	0.391 (9.93)	5.875 (149.23)	3.30 (83.8)	0.875 (22.23)	3/16	1-3/8
	B9 (180TC)	13.34 (338.8)	8.500 (215.90)	0.590 (14.99)	0.203 (5.14)	8.976 (227.99)	0.531 (13.49)	7.250 (184.15)	5.00 (127.0)	1.125 (28.58)	1/4	1-3/4
	B11 (210TC)	15.44 (392.2)	8.500 (215.90)	0.590 (14.99)	0.203 (5.14)	8.980 (228.09)	0.531 (13.49)	8.181 (207.78)	7.10 (180.3)	1.375 (34.93)	5/16	2-3/8

Output shaft key is provided with gear drive. Customer's driven element requires standard width and depth keyway.

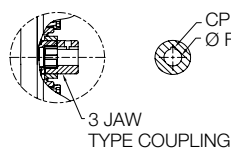
B1 SS2000 Series Helical Inline Gear Drives

Motor Flange and Coupling Details NEMA

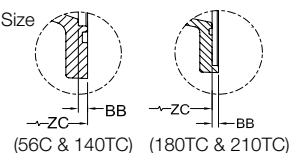


3 JAW COUPLING
BF SERIES (SUPPLIED)

DETAIL B



DETAIL C

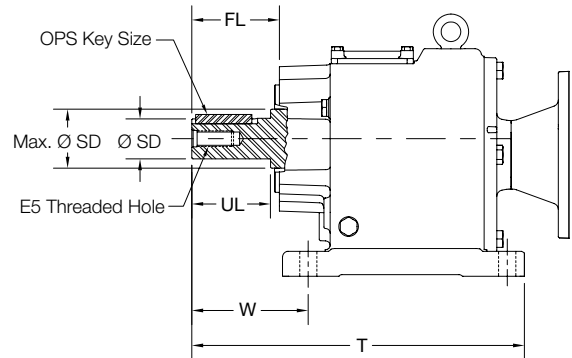
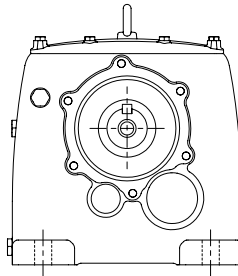
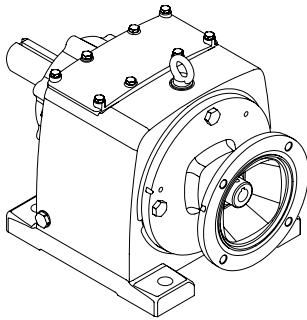


Dimensions in inches (mm)

INPUT SIZE		U	AK1 +0.005/-0 (+0.13/-0)	AK2	BB	BD	BF	BC2	ZC	FX	CPL KEY SIZE (INCHES)	
											SQ.	LENGTH
SSRF2072 SSRF2073	B5 (56C)	11.96 (303.8)	4.500 (114.30)	0.430 (10.92)	0.183 (4.64)	6.686 (169.82)	0.391 (9.93)	5.875 (149.23)	1.80 (45.7)	0.625 (15.88)	3/16	1-3/8
	B7 (140TC)	12.86 (326.6)	4.500 (114.30)	0.470 (11.94)	0.183 (4.64)	6.686 (169.82)	0.391 (9.93)	5.875 (149.23)	2.70 (68.6)	0.875 (22.23)	3/16	1-3/8
	B9 (180TC)	14.56 (369.8)	8.500 (215.90)	0.590 (14.99)	0.203 (5.14)	8.976 (227.99)	0.531 (13.49)	7.250 (184.15)	4.40 (111.8)	1.125 (28.58)	1/4	1-3/4
	B11 (210TC)	16.76 (425.7)	8.500 (215.90)	0.590 (14.99)	0.203 (5.14)	8.980 (228.09)	0.531 (13.49)	8.181 (207.78)	6.60 (167.6)	1.375 (34.93)	5/16	2-3/8

Output shaft key is provided with gear drive. Customer's driven element requires standard width and depth keyway.

Output Shaft Details



Dimensions in inches

SIZE	SHAFT SIZE	SD	SD Tolerance	Max. SD	UL	W	T	FL	E5		OPS KEY SIZE	
									Thread	Depth	SQ.	Length
SSRF2032 SSRF2033	D16	1.000	+0 -0.0005	1.378	1.720	2.950	8.597	2.219	3/8 -16	0.870	1/4	1-5/16
	D16L	1.000		1.378	3.150	4.330	9.977	3.599	3/8 -16	0.870	1/4	1-5/16
	D20	1.250		1.378	2.110	3.340	8.987	2.609	1/2 -13	1.120	1/4	1-11/16
SSRF2052 SSRF2053	D20	1.250	+0 -0.0005	1.772	2.110	3.540	10.685	2.658	1/2 -13	1.120	1/4	1-11/16
	D20L	1.250		1.772	2.900	3.150	11.475	3.448	1/2 -13	1.120	1/4	1-11/16
	D22	1.375		1.772	2.510	2.760	11.085	3.058	1/2 -13	1.120	5/16	1-13/16
SSRF2072 SSRF2073	D26	1.625	+0 -0.0010	1.772	2.900	3.150	11.475	3.448	5/8 -11	1.380	3/8	2-1/4
	D26	1.625		2.362	2.900	4.534	13.319	3.506	5/8 -11	1.380	3/8	2-1/4
	D26L	1.625		2.362	4.870	6.504	15.289	5.476	5/8 -11	1.380	3/8	2-1/4
	D32	2.000		2.362	3.690	5.324	14.109	4.296	3/4 -10	1.610	1/2	2-5/8

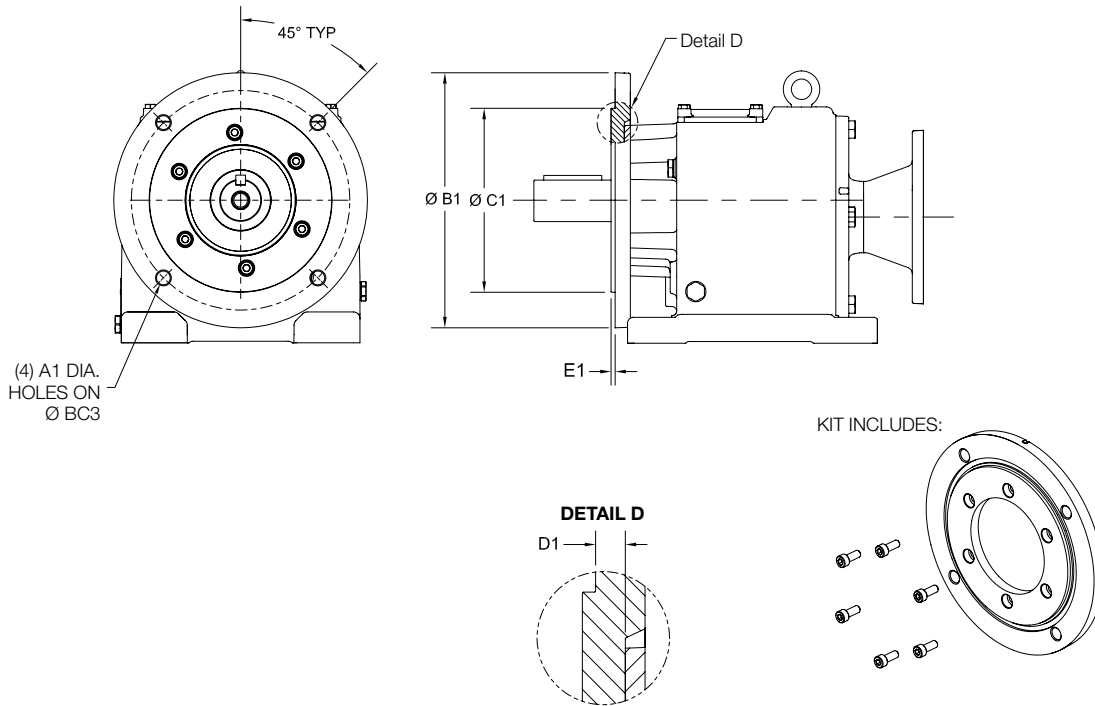
Dimensions in mm

SIZE	SHAFT SIZE	SD	SD Tolerance	Max. SD	UL	W	T	FL	E5		OPS KEY SIZE	
									Thread	Depth	Rect.	Length
SSRF2032 SSRF2033	DM25	25.000	-0.015 -0.002	35.005	43.65	74.89	218.31	56.31	M10	22.0	8 x 7	40
	DM25L	25.000		35.005	78.65	109.89	253.31	91.31	M10	22.0	8 x 7	40
	DM30	30.000		35.005	53.65	84.89	228.32	66.32	M10	22.0	8 x 7	50
SSRF2052 SSRF2053	DM30	30.000	-0.018 -0.002	45.005	63.65	70.00	281.46	77.57	M10	22.0	8 x 7	50
	DM30L	30.000		45.005	73.65	80.01	291.47	87.58	M10	22.0	8 x 7	50
	DM35	35.000		45.005	63.65	70.10	281.46	77.57	M12	28.0	10 x 8	56
SSRF2072 SSRF2073	DM40	40.000	-0.018 -0.002	45.005	73.65	80.01	291.47	87.58	M16	36.0	12 x 8	70
	DM40	40.000		59.995	73.65	115.16	338.30	89.05	M16	36.0	12 x 8	70
	DM40L	40.000		59.995	123.65	165.16	388.29	139.04	M16	36.0	12 x 8	70
	DM50	50.000		59.995	93.65	135.16	358.29	109.04	M16	36.0	14 x 9	80

Output shaft key is provided with gear drive. Customer's driven element requires standard width and depth keyway.

B1 SS2000 Series Helical Inline Gear Drives

Output Flange Details



Dimensions in inches (mm)

SIZE	A1	BC3	B1	C1 +/- 0.001 (+/- 0.03)	D1	E1	KIT PART #
SSRF2032 SSRF2033	0.26 (6.6)	3.94 (100)	4.72 (120)	3.150 (80.00)	0.49 (12.4)	0.12 (3.0)	SS2030-21K
SSRF2052 SSRF2053	0.35 (9.0)	5.12 (130)	6.30 (160)	4.330 (110.00)	0.30 (7.6)	0.14 (3.5)	SS2050-21K
SSRF2072 SSRF2073	0.53 (13.5)	8.47 (215)	9.84 (250)	7.090 (180.00)	0.35 (8.9)	0.16 (4.0)	SS2070-21K

Mounting Registers

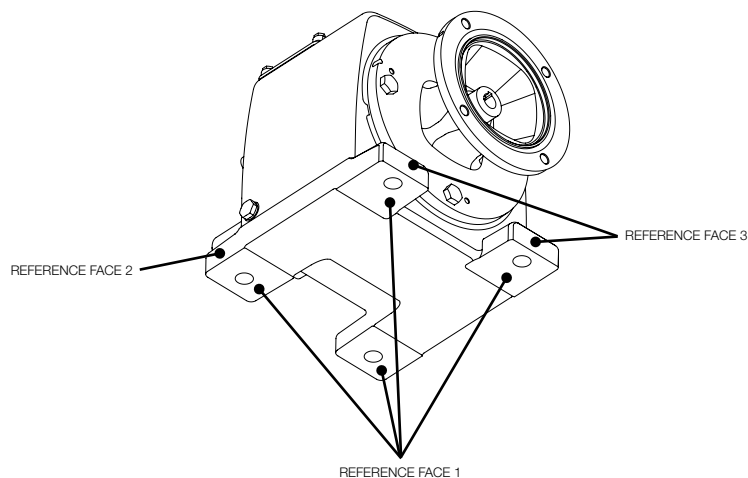
Mounting Registers on the 2000 Series products enable a simpler installation for Base Mounted units.

Use the following steps to assist in the alignment between the reducer output shaft and the shaft being driven (driven shaft).

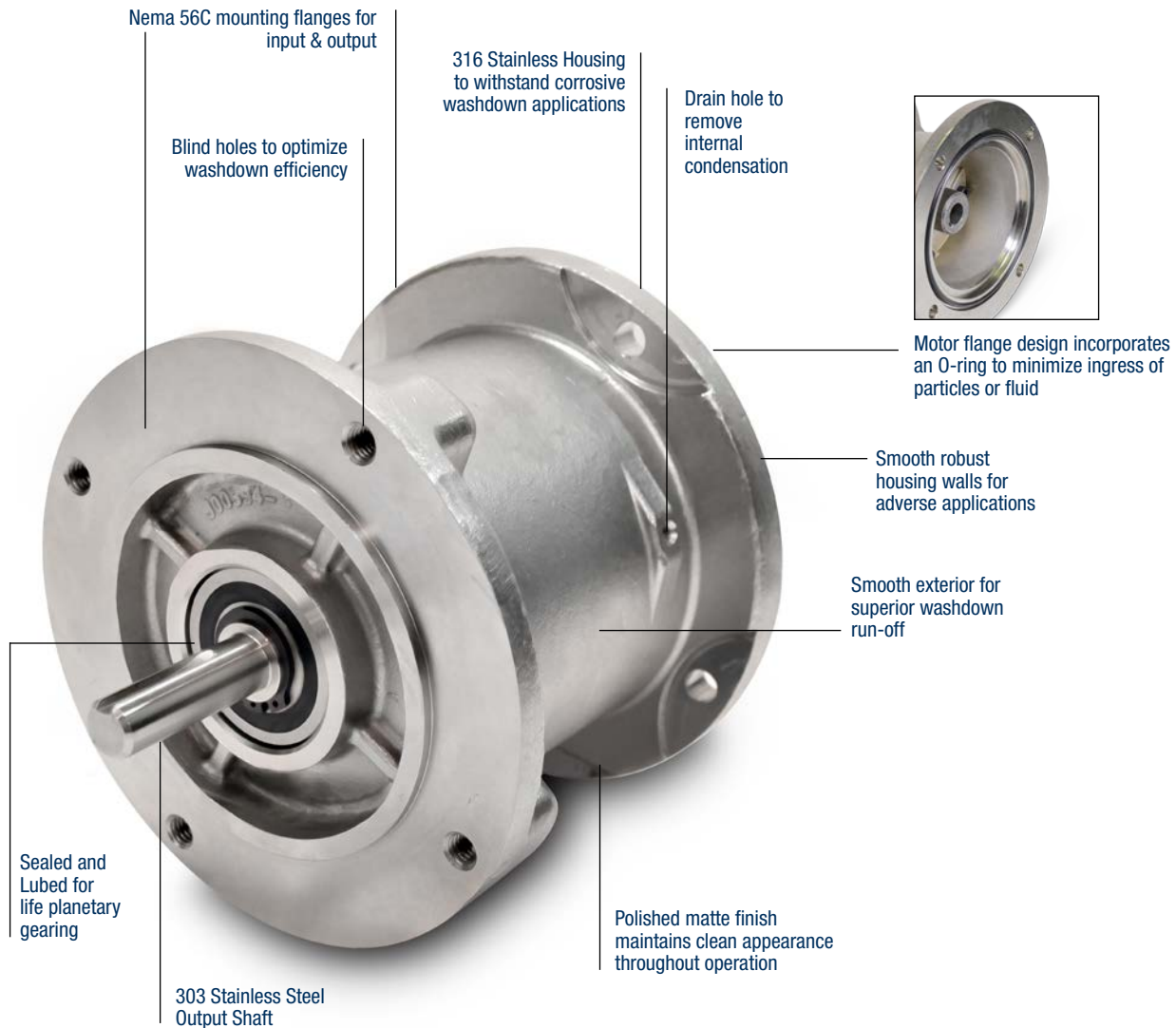
1. Establish a reference edge that is parallel to the driven shaft using dimension M on page 35 as the offset.
2. Bank Reference Face 2 of the reducer against your reference edge.
3. Use Reference Face 3 of the reducer for any fine angular (yaw) or lateral adjustments.

Contacting thumbscrews against Reference Face 2 or 3 is a clever method for finer adjustment of alignment.

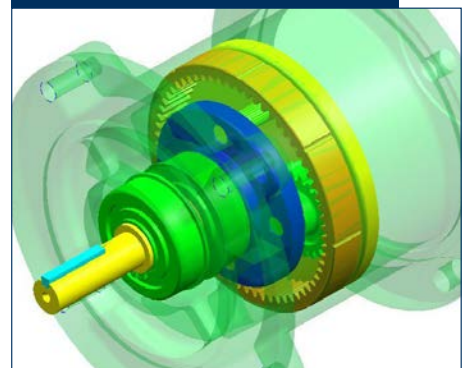
MOUNTING REGISTERS



Expanded Speed Reduction while Maintaining Operating Efficiency



High Efficiency, Quiet Operation Planetary Gearing

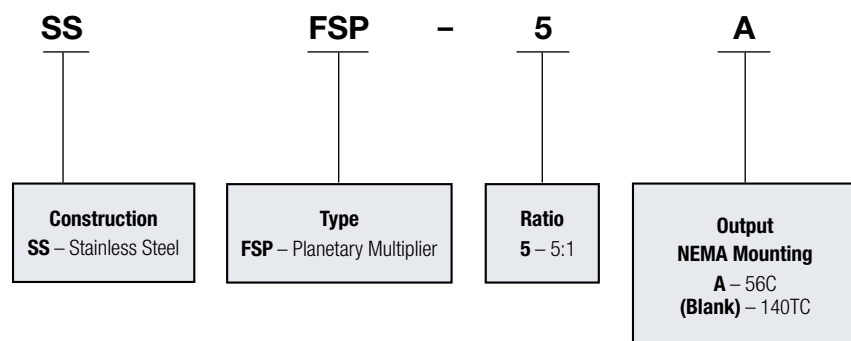


B2 SSFSP Series Planetary Multiplier

Ordering Information

Stainless Steel Stand - Alone Planetary Multiplier

Example: SSFSP-5A



Lubrication

All SSFSP Series Planetary Multipliers are supplied as Lubricated-for-Life for maximum efficiency, maintenance-free operation. The inherent design of planetary gearing is conducive to the use of grease as a lubricant, because the rotation of the sun and planet gears inside of the internal ring gear promotes even distribution of the lubricant and consistent recirculation. The lubricant we apply at the time of assembly is Klubersynth UH1 14-222 grease which has the characteristics shown below.

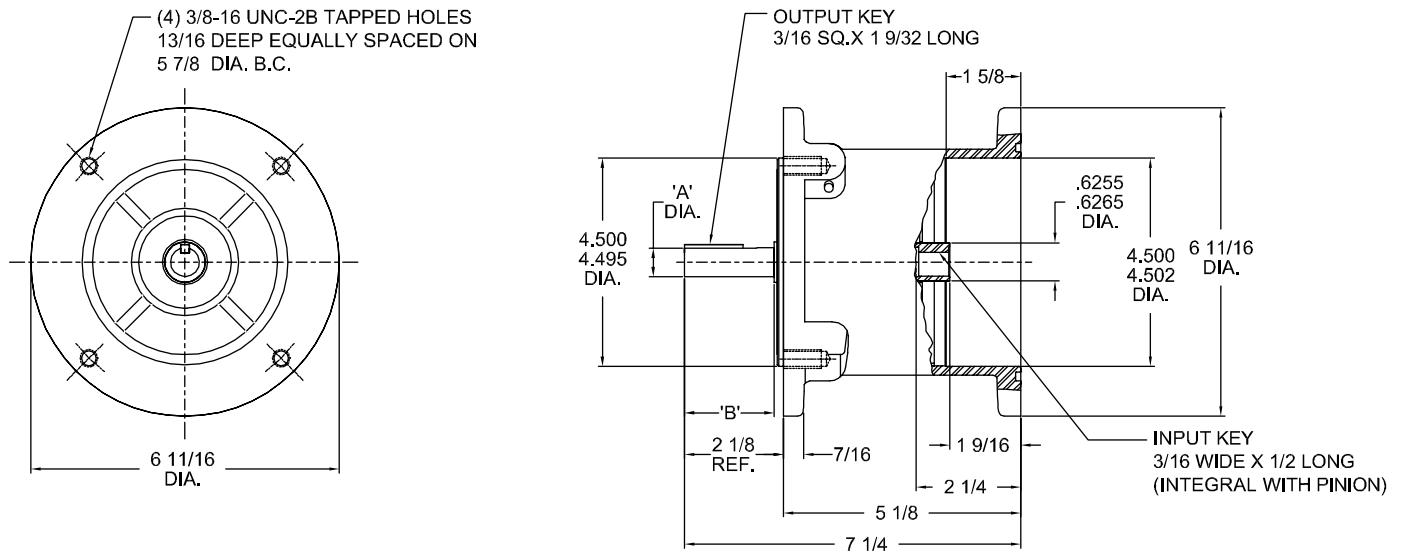
LUBRICANT	Type	Operating Temperature Range	Certifications	Comments
Klubersynth UH1 14-222	Synthetic Grease, NLGI2	-15F to +225F (-25C to +107C)	FDA 21CFR178.3570 compliant, NSF registered	H1 Food-Grade

Notes: Temperature limit is dictated by multiplier components and not the lubricant.

Performance Data

Output RPM	Ratio	Motor HP (1750 RPM Input)	Output		Multiplier Catalog Number
			HP	Torque (lb.ins)	
350	5	1/6	.14	25	SSFSP-5 OR SSFSP-5A
		1/4	.21	38	
		1/3	.29	56	
		1/2	.45	81	
		3/4	.69	124	

Dimensions



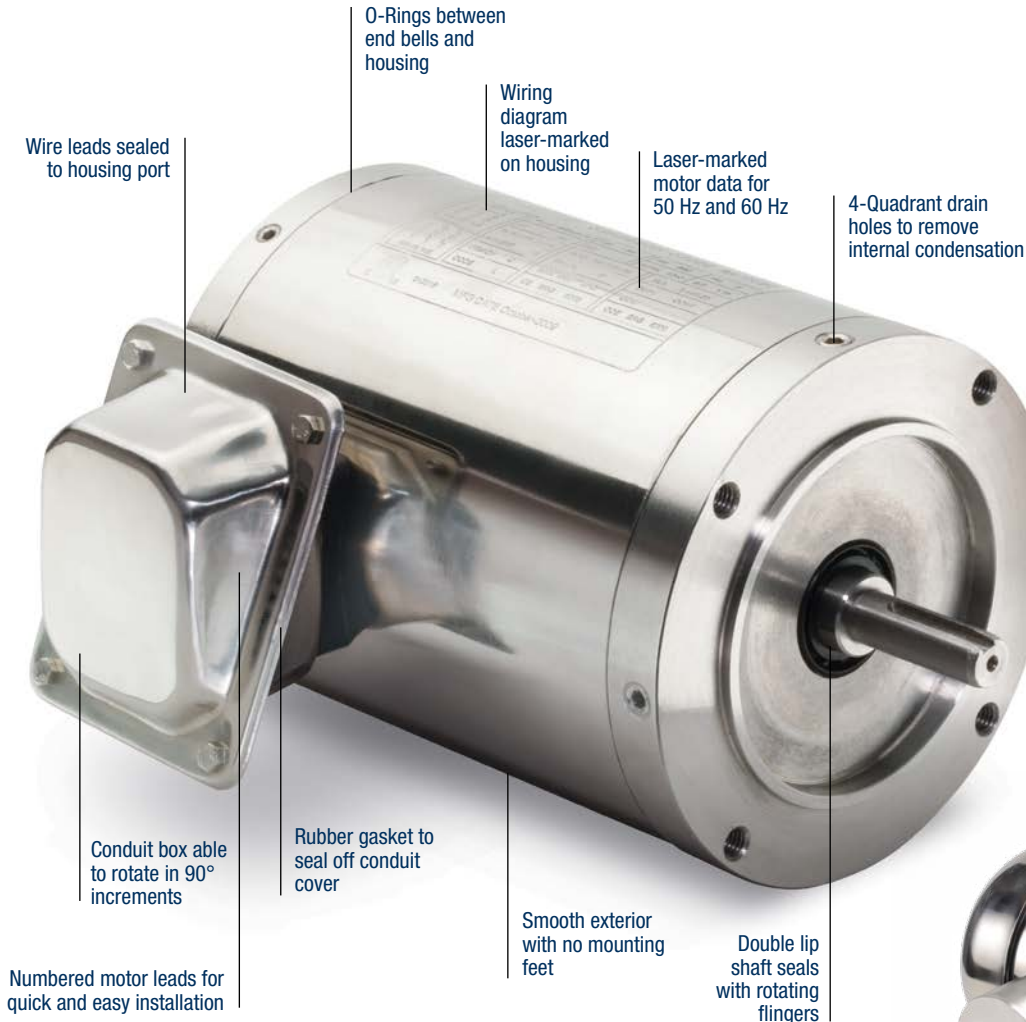
Dimensions in Inches

Catalog Number	A Shaft Dia.	B Shaft Length	Output NEMA Frame Size	Input NEMA Frame Size
SSFSP-5A	.6245 / .6240	1-15/16	56C	56C
SSFSP-5	.8745 / .8740	2	140TC	56C

Value Engineered for Washdown Performance

UL / ULc / CE Certified

IP69K



NEW

**Several Sizes of NEW
Rounded Conduit Box
Stainless Steel AC
Motors Now Available**



Exterior Construction

300 Series stainless steel housing, end bells, output shaft and conduit box

Interior Features

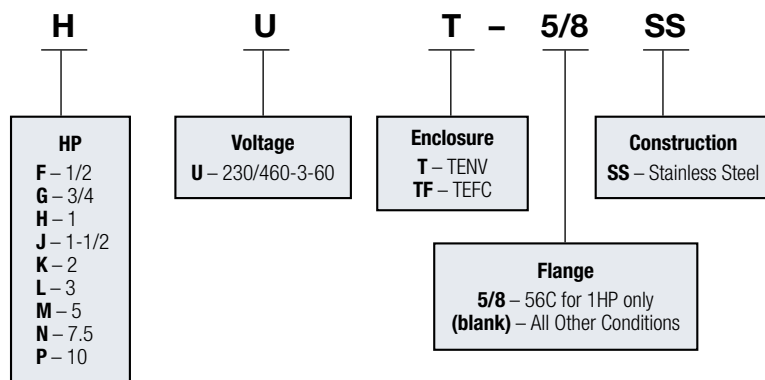
- Conforms to 2007 EISA efficiency standards
- Inverter Duty
- Class F insulation
- Class "B" rise @ 1.15 service factor
- Epoxy-coated windings
- Internally-locked bearings to eliminate unwanted axial movement

C Stainless Steel AC Motors

Ordering Information

Stainless Steel AC Motors

Example: HUT-5/8 SS



Performance Data

Part #	HP	Type	RPM	Frame	Voltage AC	Efficiency*	Full Load Amps (230/460)	Weight (lbs.)	Bearings
*FUTSS	0.5	TENV	1720	56C	208-230/460-3-60	82.5%	1.62/0.81	28	6205
*GUTSS	0.75	TENV	1720	56C	208-230/460-3-60	82.5%	2.44/1.22	31	6205
HUT-5/8SS	1	TENV	1720	56C	208-230/460-3-60	82.5%	3.04/1.52	35	6205
*HUTF-5/8SS	1	TEFC	1720	56C	208-230/460-3-60	84.0%	3.10/1.60	35	6205
HUTSS	1	TENV	1720	143TC	208-230/460-3-60	85.5%	3.04/1.52	35	6205
HUTFSS	1	TEFC	1720	143TC	208-230/460-3-60	85.5%	3.10/1.45	35	6205
JUTFSS	1.5	TEFC	1720	145TC	208-230/460-3-60	86.5%	4.24/2.12	42	6205
*KUTFSS	2	TEFC	1720	145TC	208-230/460-3-60	86.5%	5.44/2.77	49	6205
LUTFSS	3	TEFC	1765	182TC	208-230/460-3-60	89.5%	8.0/4.0	81	6306/6308
MUTFSS	5	TEFC	1765	184TC	208-230/460-3-60	89.5%	12.6/6.3	111	6306/6308
NUTFSS	7.5	TEFC	1755	213TC	208-230/460-3-60	91.0%	18.6/9.3	160	6208/6308
PUTFSS	10	TEFC	1760	215TC	208-230/460-3-60	91.7%	24.4/12.2	190	6208/6308

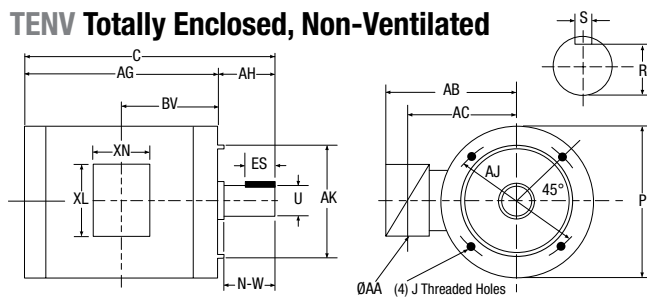
Ratings are for continuous duty at Max Ambient Temperature of 40°C
 TENV = Totally enclosed, non-ventilated
 TEFC = Totally enclosed, fan-cooled

All motors are inverter-duty rated at Service Factor of 1.15 Motors can be run at 50 Hz with a derating factor applied
 *Efficiency meets or exceeds 2007 EISA standards

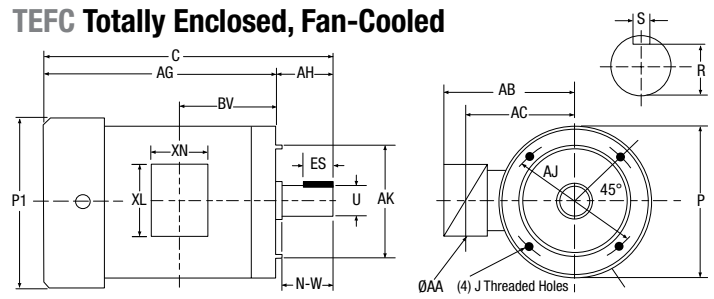
* Now available with rounded conduit box

Dimensions

TENV Totally Enclosed, Non-Ventilated



TEFC Totally Enclosed, Fan-Cooled



NEMA Frame Dimensions in inches

Boston Gear Bore Code	NEMA Frame	U	AK	AH	N-W	Key			AJ	J
						SQ.	LG	R		
B5	56C	.6250	4.5000	2-1/16	1.88	3/16	1.41	0.517	5.875	3/8-16
		.6245	4.4970							
B7	143TC	.8750	4.5000	2-1/8	2.00	3/16	1.41	0.765	5.875	3/8-16
	145TC	.8745	4.4970							
B9	182TC	1.1250	8.5000	2-5/8	2.75	1/4	1.78	0.990	7.250	1/2-13
	184TC	1.1245	8.4970							
B11	213TC	1.3750	8.5000	3-1/8	3.38	5/16	2.41	1.201	7.250	1/2-13
	215TC	1.3745	8.4970							

Motor Dimensions in inches

Catalog No.	HP	Type	NEMA Frame	Mounting				Conduit Box					
				C	P	P1	AG	AA	AB	AC	BV	XL	XN
FUTSS	1/2	TENV	56C	9.64	6.45	—	7.58	0.87	5.43	4.65	5.33	4.40	3.81
GUTSS	3/4	TENV	56C	9.64	6.45	—	7.58	0.87	5.43	4.65	6.33	4.40	3.81
HUT-5/8SS	1	TENV	56C	10.77	6.45	—	8.64	0.87	5.43	4.65	6.33	4.40	3.81
HUTF-5/8SS	1	TEFC	56C	11.59	—	7.35	9.53	0.87	5.43	4.65	6.33	4.40	3.81
HUTSS	1	TENV	143TC	10.77	6.45	—	8.64	0.87	5.43	4.65	6.33	4.40	3.81
HUTFSS	1	TEFC	143TC	12.63	—	7.35	10.51	0.87	5.43	4.65	6.33	4.40	3.81
JUTFSS	1-1/2	TEFC	145TC	13.50	6.45	7.35	11.38	0.87	5.43	4.65	7.44	4.40	3.81
KUTFSS	2	TEFC	145TC	13.78	6.45	7.35	11.65	0.87	5.43	4.65	7.44	4.40	3.81
LUTFSS	3	TEFC	182TC	16.40	8.9	9.1	13.78	0.94	7.00	5.30	8.75	4.45	4.05
MUTFSS	5	TEFC	184TC	16.40	8.9	9.1	13.78	0.94	7.00	5.30	8.75	4.45	4.05
NUTFSS	7-1/2	TEFC	213TC	21.50	10.0	10.5	18.38	0.94	7.60	6.20	9.75	4.45	4.05
PUTFSS	10	TEFC	215TC	22.30	10.0	10.5	19.18	0.94	7.60	6.20	11.25	4.45	4.05

**More Models
Now Available with
Eccentric Locking
Collar**



Product Features

- Synthetic lip seal with stainless steel flinger provides superior protection for high pressure washdown conditions
- Pre-filled with NSF H1 food grade grease
- Cast stainless steel housing
- Laser marked
- M6 grease fitting

**Ask about our Kilian line of
Polymer Housing Stainless
Steel Mounted Bearings**



Ordering Information

Mounted Bearings

Example: SSUP4-3/4

SS	U	P	4	-	3/4	
Construction SS – Stainless Steel	U – Setscrew Locking H – Eccentric Locking	Type P – Pillow Block FL – 2-Bolt Flange F – 4-Bolt Flange FB – 3-Bolt Flange T – Take-Up	Bearing Size 4 5 6 7 8 10		Bore Size 3/4 – 0.750 1 – 1.000 1-3/16 – 1.188 1-1/4 – 1.250 1-7/16 – 1.438 1-1/2 – 1.500 1-15/16 – 1.938	Model Variation A – Optional for 1,000" Bore Size Only

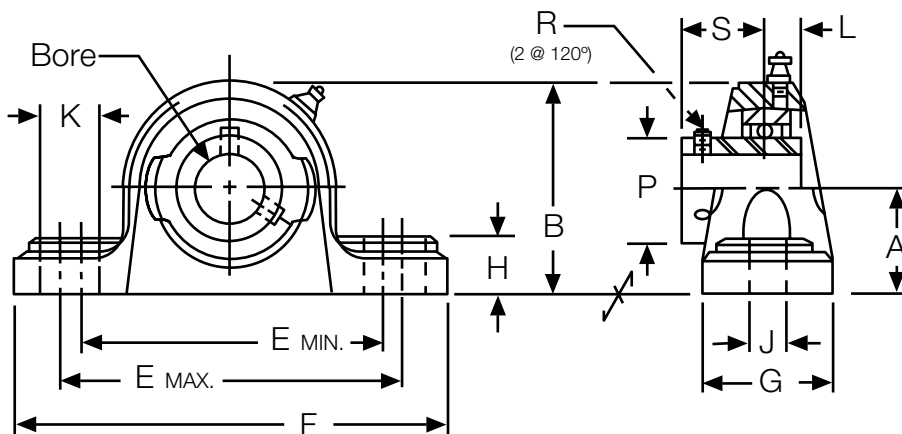
Replacement Bearing Insert

Example: SSUC204-12

SS	U	C	204	-	12
Construction SS – Stainless Steel	U – Setscrew Locking H – Eccentric Locking	Replacement Bearing Insert	Bearing Size 204 205 206 207 208 210		Bore Size (In 1/16 inch) 12 – 0.750 16 – 1.000 19 – 1.188 20 – 1.250 23 – 1.438 24 – 1.500 31 – 1.938

Pillow Blocks

2 Bolt Pillow Block - Setscrew Locking Extended Inner Race



Bore Size	Mounted Bearing		Bearing Insert	
	Catalog Number	Item Code	Catalog Number	Item Code
3/4	SSUP4-3/4	G01140	SSUC204-12	G01171
1	SSUP5-1	G01141	SSUC205-16	G01172
1-3/16	SSUP6-1-3/16	G01142	SSUC206-19	G01173
1-1/4	SSUP7-1-1/4	G01143	SSUC207-20	G01174
1-7/16	SSUP7-1-7/16	G01144	SSUC207-23	G01175
1-1/2	SSUP8-1-1/2	G05900	SSUC208-24	G05922
1-15/16	SSUP10-1-15/16	G05901	SSUC210-31	G05923

Stainless Steel Material	
AISI 304	AISI 440
Housing, cage, shield, setscrew, seal	Balls, inner/outer ring

Catalog Number	Bore Size	Dimensions (in)														Load Rating* (lbf)	
		A	B	E _{max}	E _{min}	F	G	H	J	K	L	P	R (UNF)	S	Bolt Size	CR	CO
SSUP4-3/4	3/4	1-5/16	2-9/16	4-1/8	3-3/8	5	1-1/2	9/16	1/2	3/4	0.500	1.142	1/4-28	0.721	3/8	2,901	1,507
SSUP5-1	1	1-7/16	2-25/32	4-1/2	3-3/4	5-1/2	1-1/2	19/32	1/2	3/4	0.563	1.339	1/4-28	0.780	3/8	3,175	1,782
SSUP6-1-3/16	1-3/16	1-11/16	3-1/4	5-1/32	4-15/32	6-1/2	1-7/8	21/32	43/64	25/32	0.626	1.591	1/4-28	0.874	1/2	4,431	2,558
SSUP7-1-1/4	1-1/4	1-7/8	3-21/32	5-9/32	4-23/32	6-9/16	1-7/8	45/64	43/64	25/32	0.689	1.866	5/16-24	1.000	1/2	5,847	3,472
SSUP7-1-7/16	1-7/16	1-7/8	3-21/32	5-9/32	4-23/32	6-9/16	1-7/8	45/64	43/64	25/32	0.689	1.866	5/16-24	1.000	1/2	5,847	3,472
SSUP8-1-1/2	1-1/2	1-15/16	3-15/16	5-11/16	5-1/8	7-1/4	2-1/8	45/64	43/64	25/32	0.748	2.075	5/16-24	1.189	1/2	6,632	4,069
SSUP10-1-15/16	1-15/16	2-1/4	4-29/64	6-17/32	5-31/32	8-1/8	2-3/8	53/64	25/32	29/32	0.748	2.465	3/8-24	1.284	5/8	7,868	5,216

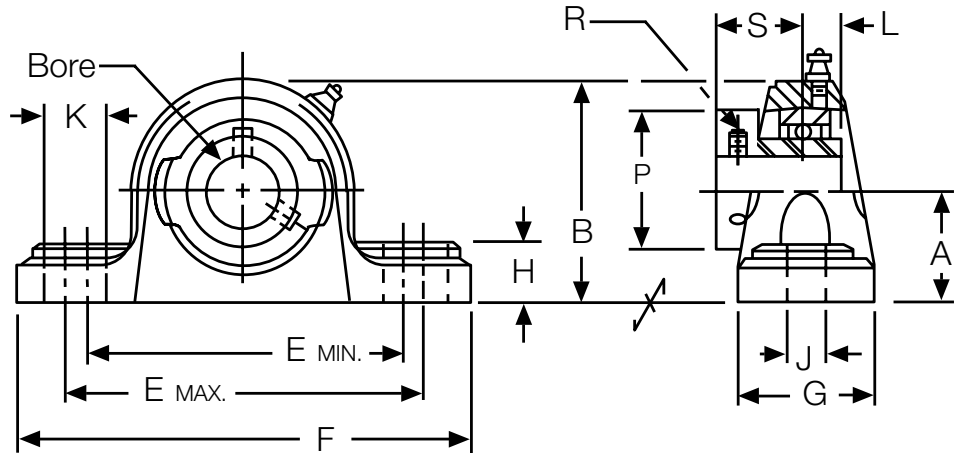
Notes: Bore tolerance: +.001"/-.000".

Recommended shaft tolerance: Nominal +.000"/-.001".

Max recommended speed is 5000 RPM.

*CR=dynamic load rating, CO=static load rating.

Pillow Blocks

2 Bolt Pillow Block - Eccentric Locking Collar
For Superior Shaft Holding Power

Bore Size	Mounted Bearing		Bearing Insert	
	Catalog Number	Item Code	Catalog Number	Item Code
3/4	SSHP4-3/4	G01145	SSHC204-12	G01176
1	SSHP5-1	G01146	SSHC205-16	G01177
1-3/16	SSHP6-1-3/16	G01147	SSHC206-19	G01178
1-1/4	SSHP7-1-1/4	G01148	SSHC207-20	G01179
1-7/16	SSHP7-1-7/16	G01149	SSHC207-23	G01180
1-1/2	SSHP8-1-1/2	G05902	SSHC208-24	G05924
1-15/16	SSHP10-1-15/16	G05903	SSHC210-31	G05925

Stainless Steel Material	
AISI 304	AISI 440
Housing, cage, shield, setscrew, seal, collar	Balls, inner/outer ring

		Dimensions (in)													Load Rating* (lbf)		
Catalog Number	Bore Size	A	B	E _{max}	E _{min}	F	G	H	J	K	L	P	R (UNF)	S	Bolt Size	CR	CO
SSHP4-3/4	3/4	1-5/16	2-9/16	4-1/8	3-3/8	5	1-1/2	9/16	1/2	3/4	0.673	1.311	1/4-28	1.047	3/8	2,901	1,507
SSHP5-1	1	1-7/16	2-25/32	4-1/2	3-3/4	5-1/2	1-1/2	19/32	1/2	3/4	0.689	1.500	1/4-28	1.059	3/8	3,175	1,782
SSHP6-1-3/16	1-3/16	1-11/16	3-1/4	5-1/32	4-15/32	6-1/2	1-7/8	21/32	43/64	25/32	0.720	1.713	1/4-28	1.186	1/2	4,431	2,558
SSHP7-1-1/4	1-1/4	1-7/8	3-21/32	5-9/32	4-23/32	6-9/16	1-7/8	45/64	43/64	25/32	0.740	2.087	5/16-24	1.272	1/2	5,847	3,472
SSHP7-1-7/16	1-7/16	1-7/8	3-21/32	5-9/32	4-23/32	6-9/16	1-7/8	45/64	43/64	25/32	0.740	2.087	5/16-24	1.272	1/2	5,847	3,472
SSHP8-1-1/2	1-1/2	1-15/16	3-15/16	5-11/16	5-1/8	7-1/4	2-1/8	45/64	43/64	25/32	0.748	2.283	5/16-24	1.378	1/2	6,632	4,069
SSHP10-1-15/16	1-15/16	2-1/4	4-29/64	6-17/32	5-31/32	8-1/8	2-3/8	53/64	25/32	29/32	0.969	2.697	3/8-24	1.500	5/8	7,868	5,216

Notes: Bore tolerance: +.001"/-.000".

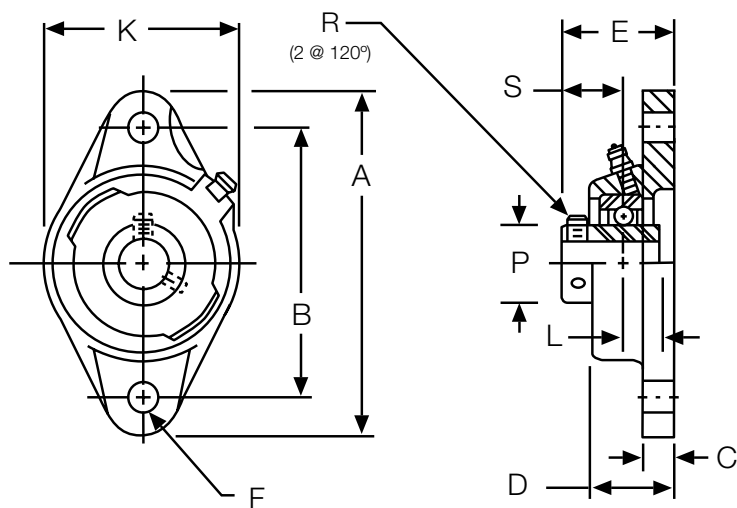
Recommended shaft tolerance: Nominal +.000"/-.001".

Max recommended speed is 5000 RPM.

*CR=dynamic load rating, Co=static load rating.

Flanged Units

2 Bolt Flange - Setscrew Locking Extended Inner Race



Bore Size	Mounted Bearing		Bearing Insert	
	Catalog Number	Item Code	Catalog Number	Item Code
3/4	SSUFL4-3/4	G01150	SSUC204-12	G01171
1	SSUFL5-1	G01151	SSUC205-16	G01172
1	SSUFL5-1A	G05970	SSUC205-16	G01172
1-3/16	SSUFL6-1-3/16	G01152	SSUC206-19	G01173
1-1/4	SSUFL7-1-1/4	G01153	SSUC207-20	G01174
1-7/16	SSUFL7-1-7/16	G01154	SSUC207-23	G01175
1-1/2	SSUFL8-1-1/2	G05904	SSUC208-24	G05922
1-15/16	SSUFL10-1-15/16	G05905	SSUC210-31	G05923

Stainless Steel Material	
AISI 304	AISI 440
Flange, cage, shield, setscrew, seal	Balls, inner/outer ring

Catalog Number	Bore Size	Dimensions (in)											Load Rating* (lbf)	
		A	B	C	D	E	Bolt Size F**	K	L	P	R (UNF)	S	CR	CO
SSUFL4-3/4	3/4	4-7/16	3-35/64	7/16	1.000	1-5/16	3/8	2-3/8	0.500	1.142	1/4-28	0.721	2,901	1,507
†† SSUFL5-1	1	5-1/8	3-57/64	1/2	1.063	1-13/32	1/2	2-11/16	0.563	1.339	1/4-28	0.780	3,175	1,782
SSUFL5-1A	1	5-1/8	3-57/64	1/2	1.063	1-13/32	3/8	2-11/16	0.563	1.339	1/4-28	0.780	3,175	1,782
†† SSUFL6-1-3/16	1-3/16	5-3/16	4-39/64	1/2	1.219	1-19/32	1/2	3-5/32	0.626	1.591	1/4-28	0.874	4,431	2,558
SSUFL7-1-1/4	1-1/4	6-11/32	5-1/8	35/64	1.344	1-3/4	1/2	3-35/64	0.689	1.866	5/16-24	1.000	5,847	3,472
†† SSUFL7-1-7/16	1-7/16	6-11/32	5-1/8	35/64	1.344	1-3/4	1/2	3-35/64	0.689	1.866	5/16-24	1.000	5,847	3,472
SSUFL8-1-1/2	1-1/2	6-7/8	5-43/64	35/64	1.422	2-1/64	1/2	3-15/16	0.748	2.075	5/16-24	1.189	6,632	4,069
SSUFL10-1-15/16	1-15/16	7-3/4	6-3/16	19/32	1.578	2-5/32	5/8	4-17/32	0.748	2.465	3/8-24	1.284	7,868	5,216

Notes: Bore tolerance: +.001"/-.000".

Recommended shaft tolerance: Nominal +.000"/-.001".

Max recommended speed is 5000 RPM.

*CR=dynamic load rating, Co=static load rating.

** Smaller bolt sizes are acceptable with the use of flat washers

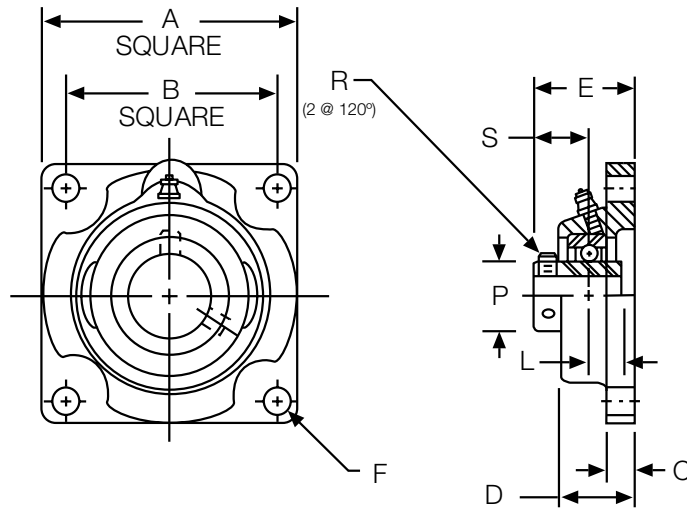
†† Models available with eccentric locking collar (See Table 1 for new dimensions)



Table 1
Dimensions if ordered with eccentric locking collar

Catalog Number	L	P	S
SSHFL5-1	0.689	1.500	1.059
SSHFL6-1-3/16	0.720	1.713	1.186
SSHFL7-1-7/16	0.740	2.087	1.272

Flanged Unit

4 Bolt Flange - Setscrew Locking
Extended Inner Race

Bore Size	Mounted Bearing		Bearing Insert	
	Catalog Number	Item Code	Catalog Number	Item Code
3/4	SSUF4-3/4	G01155	SSUC204-12	G01171
1	SSUF5-1	G01156	SSUC205-16	G01172
1-3/16	SSUF6-1-3/16	G01157	SSUC206-19	G01173
1-1/4	SSUF7-1-1/4	G01158	SSUC207-20	G01174
1-7/16	SSUF7-1-7/16	G01159	SSUC207-23	G01175
1-1/2	SSUF8-1-1/2	G05906	SSUC208-24	G05922
1-15/16	SSUF10-1-15/16	G05907	SSUC210-31	G05923

Stainless Steel Material	
AISI 304	AISI 440
Flange, cage, shield, setscrew, seal	Balls, inner/outer ring

Catalog Number	Bore Size	Dimensions (in)										Load Rating* (lbf)	
		A	B	C	D	E	Bolt Size F**	L	P	R (UNF)	S	CR	CO
SSUF4-3/4	3/4	3-3/8	2-33/64	15/32	1.000	1-5/16	3/8	0.500	1.142	1/4-28	0.721	2,901	1,507
†† SSUF5-1	1	3-3/4	2-3/4	35/64	1.063	1-13/32	3/8	0.563	1.339	1/4-28	0.780	3,175	1,782
†† SSUF6-1-3/16	1-3/16	4-1/4	3-17/64	35/64	1.219	1-19/32	3/8	0.626	1.591	1/4-28	0.874	4,431	2,558
SSUF7-1-1/4	1-1/4	4-39/64	3-5/8	5/8	1.344	1-3/4	7/16	0.689	1.866	5/16-24	1.000	5,847	3,472
†† SSUF7-1-7/16	1-7/16	4-39/64	3-5/8	5/8	1.344	1-3/4	7/16	0.689	1.866	5/16-24	1.000	5,847	3,472
SSUF8-1-1/2	1-1/2	5-1/8	4-1/64	5/8	1.422	2-1/64	1/2	0.748	2.075	5/16-24	1.189	6,632	4,069
SSUF10-1-15/16	1-15/16	5-13/32	4-3/8	23/32	1.578	2-5/32	1/2	0.748	2.465	3/8-24	1.284	7,868	5,216

Notes: Bore tolerance: +.001"/-.000".

Recommended shaft tolerance: Nominal +.000"/-.001".

Max recommended speed is 5000 RPM.

*CR=dynamic load rating, Co=static load rating.

** Smaller bolt sizes are acceptable with the use of flat washers

†† Models available with eccentric locking collar (See Table 1 for new dimensions)

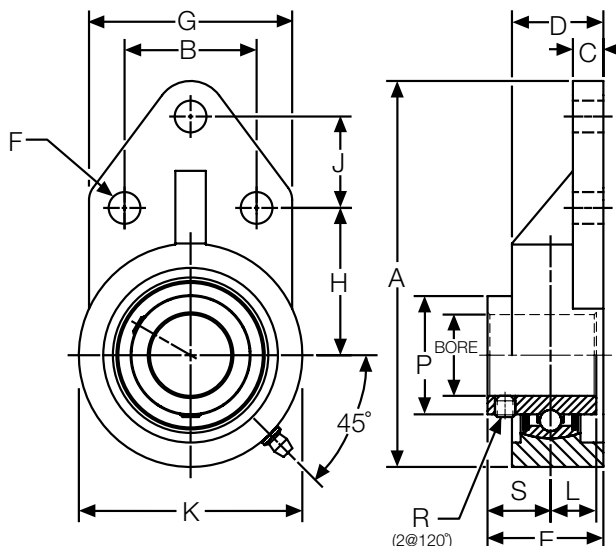
NEW

Table 1
Dimensions if ordered with eccentric locking collar

Catalog Number	L	P	S
SSHF5-1	0.689	1.500	1.059
SSHF6-1-3/16	0.720	1.713	1.186
SSHF7-1-7/16	0.740	2.087	1.272

Flanged Units

3 Bolt Flange - Setscrew Locking Extended Inner Race



Bore Size	Mounted Bearing		Bearing Insert	
	Catalog Number	Item Code	Catalog Number	Item Code
3/4	SSUFB4-3/4	G05908	SSUC204-12	G01171
1	SSUFB5-1	G05909	SSUC205-16	G01172
1-3/16	SSUFB6-1-3/16	G05910	SSUC206-19	G01173
1-1/4	SSUFB7-1-1/4	G05911	SSUC207-20	G01174
1-7/16	SSUFB7-1-7/16	G05912	SSUC207-23	G01175
1-1/2	SSUFB8-1-1/2	G05913	SSUC208-24	G05922
1-15/16	SSUFB10-1-15/16	G05914	SSUC210-31	G05923

Stainless Steel Material	
AISI 304	AISI 440
Flange, cage, shield, setscrew, seal	Balls, inner/outer ring

Catalog Number	Bore Size	Dimensions (in)														Load Rating* (lbf)	
		A	B	C	D	E	Bolt Size F**	G	H	J	K	L	P	R (UNF)	S	CR	CO
SSUFB4-3/4	3/4	4-11/32	1-17/64	25/64	1.000	1-5/16	5/16	2-1/16	1-21/64	1-1/16	2-33/64	0.500	1.142	1/4-28	0.721	2,901	1,507
SSUFB5-1	1	4-9/16	1-11/32	25/64	1.063	1-13/32	5/16	2-7/32	1-49/64	1-1/16	2-11/16	0.563	1.339	1/4-28	0.780	3,175	1,782
SSUFB6-1-3/16	1-3/16	5-1/8	1-37/64	25/64	1.219	1-19/32	5/16	2-9/16	1-31/32	1-9/64	3-1/16	0.626	1.591	1/4-28	0.874	4,431	2,558
SSUFB7-1-1/4	1-1/4	5-21/32	1-13/16	19/32	1.344	1-3/4	5/16	2-3/4	2-11/64	1-17/64	3-35/64	0.689	1.866	5/16-24	1.000	5,847	3,472
SSUFB7-1-7/16	1-7/16	5-21/32	1-13/16	19/32	1.344	1-3/4	5/16	2-3/4	2-11/64	1-17/64	3-35/64	0.689	1.866	5/16-24	1.000	5,847	3,472
SSUFB8-1-1/2	1-1/2	6-15/32	1-31/32	5/8	1.422	2-1/64	3/8	3-1/16	2-23/64	1-39/64	3-15/16	0.748	2.075	5/16-24	1.189	6,632	4,069
SSUFB10-1-15/16	1-15/16	7-1/4	2-9/32	23/32	1.563	2-5/32	3/8	3-3/8	2-43/64	1-13/16	4-13/32	0.748	2.465	3/8-24	1.284	7,868	5,216

Notes: Bore tolerance: +.001"/-.000".

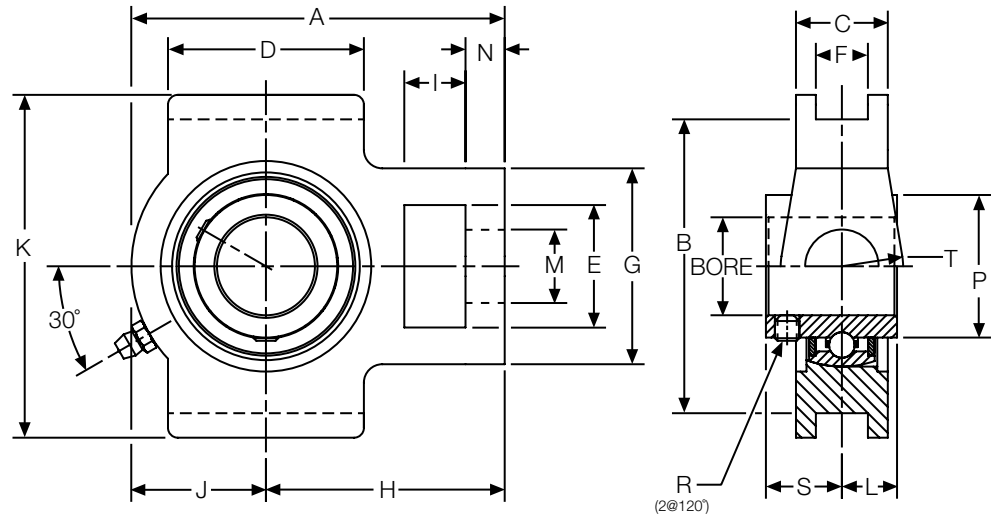
Recommended shaft tolerance: Nominal +.000"/-.001".

Max recommended speed is 5000 RPM.

*CR=dynamic load rating, CO=static load rating.

** Smaller bolt sizes are acceptable with the use of flat washers

Take Up Unit

Wide Slot Take Up Unit - Setscrew Locking
Extended Inner Race

Bore Size	Mounted Bearing		Bearing Insert	
	Catalog Number	Item Code	Catalog Number	Item Code
3/4	SSUT4-3/4	G05915	SSUC204-12	G01171
1	SSUT5-1	G05916	SSUC205-16	G01172
1-3/16	SSUT6-1-3/16	G05917	SSUC206-19	G01173
1-1/4	SSUT7-1-1/4	G05918	SSUC207-20	G01174
1-7/16	SSUT7-1-7/16	G05919	SSUC207-23	G01175
1-1/2	SSUT8-1-1/2	G05920	SSUC208-24	G05922
1-15/16	SSUT10-1-15/16	G05921	SSUC210-31	G05923

Stainless Steel Material	
AISI 304	AISI 440
Flange, cage, shield, setscrew, seal	Balls, inner/outer ring

		Dimensions (in)																	Load Rating* (lbf)	
Catalog Number	Bore Size	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	R (UNF)	S	CR	CO
SSUT4-3/4	3/4	3-11/16	2-63/64	13/16	2-1/64	1.250	0.469	2-1/64	2-13/32	0.625	1-9/32	3-1/2	0.500	0.750	0.391	1.142	1/4-28	0.721	2,901	1,507
SSUT5-1	1	3-13/16	2-63/64	15/16	2-1/64	1.250	0.469	2-1/64	2-7/16	0.625	1-3/8	3-1/2	0.563	0.750	0.391	1.339	1/4-28	0.780	3,175	1,782
SSUT6-1-3/16	1-3/16	4-29/64	3-1/2	1-3/32	2-1/4	1.453	0.469	2-7/32	2-3/4	0.625	1-45/64	4-1/64	0.626	0.859	0.391	1.591	1/4-28	0.874	4,431	2,558
SSUT7-1-1/4	1-1/4	5-5/64	3-1/2	1-3/16	2-33/64	1.453	0.469	2-33/64	3-5/64	0.625	2	4-1/64	0.689	0.859	0.516	1.866	5/16-24	1.000	5,847	3,472
SSUT7-1-7/16	1-7/16	5-5/64	3-1/2	1-3/16	2-33/64	1.453	0.469	2-33/64	3-5/64	0.625	2	4-1/64	0.689	0.859	0.516	1.866	5/16-24	1.000	5,847	3,472
SSUT8-1-1/2	1-1/2	5-43/64	4-1/64	1-5/16	3-17/64	1.938	0.625	3-17/64	3-1/2	0.750	2-11/64	4-31/64	0.748	1.141	0.625	2.075	5/16-24	1.189	6,632	4,069
SSUT10-1-15/16	1-15/16	5-55/64	4-1/64	1-15/32	3-17/64	1.938	0.625	3-17/64	3-35/64	0.750	2-5/16	4-39/64	0.748	1.141	0.625	2.465	3/8-24	1.284	7,868	5,216

Notes: Bore tolerance: $+.001"/-.000"$.

Recommended shaft tolerance: Nominal $+.000"/-.001"$.

Max recommended speed is 5000 RPM.

*CR=dynamic load rating, Co=static load rating.



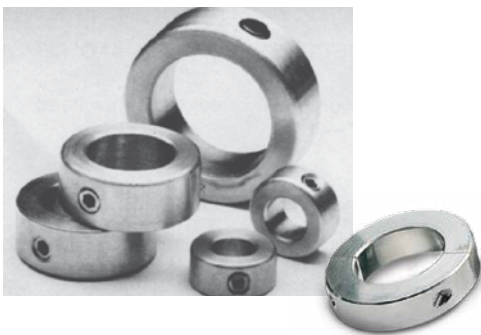
SSFC Series - Insert (3 Jaw) Type Coupling

- 316 stainless steel with passivated finish
- Precision machined bore or solid hubs
- Three types of inserts for different service requirements
- No lubrication needed
- Stocked bores complete with keyway and stainless setscrew
- Custom bore sizes available on request



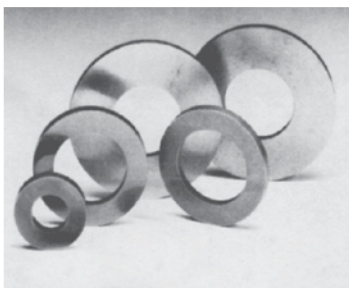
JS Series - Pin and Block Type Universal Joints

- Connect shafts at angles up to 30 degrees and speeds up to 2,000 RPM
- Precision machined bore or solid hubs
- Self-locking assembly rings (hubs 7/8" and larger)
- Riveted bearing pin (hubs 3/4" and smaller)
- Joint covers keep dirt/moisture out and lubricant in



SSC/CSSC/2SSC Series - Collars

- Setscrew, 1-piece clamp & 2-piece clamp styles for locking
- Setscrew type suitable for temps up to 800° F, ideal for autoclaved hygienic equipment
- Clamp type conform to OSHA with recessed screw heads, provide convenient adjusting and removal



SAO Series - Thrust Washers & Thrust Ball Bearings

- Hardened and ground surface
- Ideal as a radial bearing surface
- Negligible friction when used as a set with thrust bearing sandwiched between 2 thrust washers

Ordering Information

Couplings

Halves

SS	FC	20	3/4
Construction SS – Stainless Steel	FC Style	Size 12 15 20 25 30 38 45	Bore Size Solid 3/8 1/2 5/8 3/4 7/8 1 1-1/4 1-3/8

Inserts

XFC	R	20
FC Style	Material BB – Bost Bronz R – Rubber A – Polyurethane	Size 12 15 20 25 30 38 45

Universal Joints

JS	100	B
Construction SS – Stainless Steel	Size 37 50 62 75 87 100 112 125 150 175 200 250 300 400	Bore B – Designated Bore Size (Blank) – Solid/No Bore
	Hub Dia. 3/8 1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2 1-3/4 2 2-1/2 3 4	

Collars

CSSC	100	
Type SSC – Setscrew CSSC – 1-Piece Clamping 2SSC – 2-Piece Clamping	Bore 12 18 25 31 37 50 62 75 87 100 112 125 150 175 200	Size 1/8 3/16 1/4 5/16 3/8 1/2 5/8 3/4 7/8 1 1-1/8 1-1/4 1-1/2 1-3/4 2
		Bore Thread (Measured in threads per inch) 8 10 11 12 13 14 16 18 20 24 (For threaded bore collars only)

Thrust Washers

SAO 8 Washer

1	3/16 Bore
5	1/4 Bore
8	5/16 Bore
10	3/8 Bore
16	1/2 Bore

Thrust Ball Bearings

SAO 8 CN

1	3/16 Bore
5	1/4 Bore
8	5/16 Bore
10	3/8 Bore
16	1/2 Bore

Performance

- Oil-Impregnated Bost-Bronz – recommended for high torque loads, particularly at slower speeds.
- Oil-Resistant Synthetic Rubber – recommended when quietness is desired, particularly at motor speeds.
- Polyurethane – recommended where moderate to heavy shock loads are encountered.

Load Rating Table

Coupling Size	Maximum Horsepower Rating at RPM*								Misalignment Tolerances		Max Torque (lb-in)
	50	100	300	690	870	1150	1750	3450	Lateral/Parallel	Angular	
XFCBB BOST-BRONZ INSERTS											
SSFC12	0.16	0.32	0.95	2.2	2.8	3.6	5.6	—	.001	.011	200
SSFC15	0.40	0.79	2.4	5.5	6.9	9.1	13.9	—		.013	500
SSFC20	0.79	1.6	4.8	10.9	13.8	18.2	—	—		.018	1000
SSFC25	1.4	2.9	8.6	19.7	24.8	—	—	—		.022	1800
SSFC30	2.5	5.1	15.2	35.0	—	—	—	—		.026	3200
SSFC38	5.6	11.1	33.3	—	—	—	—	—		.032	7000
SSFC45	8.7	17.5	—	—	—	—	—	—		.039	11000
XFCR RUBBER INSERTS											
SSFC12	—	0.10	0.31	0.71	0.90	1.2	1.8	3.6	.002	.033	65
SSFC15	—	0.20	0.60	1.4	1.7	2.3	3.5	56.8		.039	125
SSFC20	—	0.40	1.2	2.7	3.5	4.6	6.9	13.7		.053	250
SSFC25	—	0.71	2.1	4.9	6.2	8.2	12.5	24.6		.066	450
SSFC30	—	1.3	3.8	8.8	11.0	14.6	22.2	43.8		.078	800
SSFC38	—	2.5	7.6	17.5	22.1	29.2	44.4	—		.097	1600
SSFC45	—	4.4	13.3	30.7	38.7	51.1	77.7	—		.117	2800
XFCA POLYURETHANE INSERTS											
SSFC12	0.09	0.19	0.56	1.2	1.6	2.0	3.0	5.7	.002	.022	125
SSFC15	0.18	0.37	1.1	2.5	3.1	4.0	6.0	11.3		.026	250
SSFC20	0.35	0.70	2.1	4.6	5.7	7.5	11.1	20.7		.035	470
SSFC25	0.62	1.2	3.7	8.1	10.1	13.1	19.3	35.8		.044	845
SSFC30	1.1	2.2	6.5	14.4	17.9	23.3	34.3	63.6		.052	1500
SSFC38	2.2	4.3	12.9	28.4	35.3	45.8	67.3	—		.065	3000
SSFC45	3.7	7.5	22.4	49.2	61.0	79.0	115.9	—		.078	5250

*For uniform load.

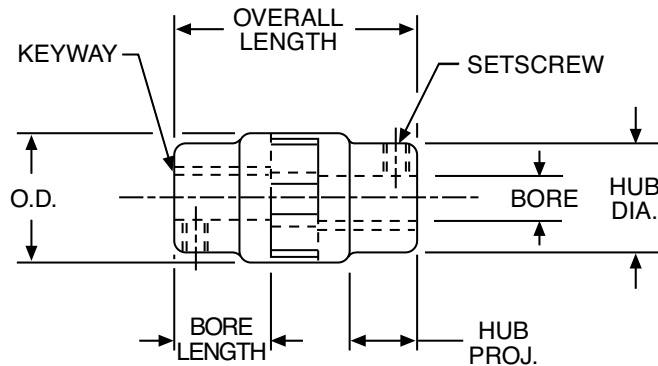
Selection Procedure

1. From Table select Service Factor.
2. Determine Design Load
 $\text{Design HP} = \text{Application HP} \times \text{S.F.}$
or
 $\text{Design Torque} = \text{Application Torque} \times \text{S.F.}$
3. Select coupling size from Load Rating Table which has a rating equal to or greater than the design load

COUPLING SERVICE FACTOR

Load Classification	Service Factor
Uniform	1
Moderate Shock	1.75
Heavy Shock	2.5

Dimensions



All Dimensions in Inches
Order By Catalog Number or Item Code
 To order complete coupling order two coupling halves and one coupling insert

			Dimensions (in)								Coupling Halves		Insert									
Coupling Size	Bore	Max. Bore	Bore Length *	OD	Overall Length **	Hub		Assy. Clearance	Standard Keyway Size	Standard Setscrew Size	Catalog Number	Item Code	Bost-Bronz		Rubber		Polyurethane					
						Dia.	Proj.						Catalog Number	Item Code	Catalog Number	Item Code	Catalog Number	Item Code				
SSFC12	SOLID	5/8	N/A	1-1/4	2-5/16	1	5/8	3-3/16	N/A	N/A	SSFC12 SOLID	G89785	XFCBB12	08064	XFCR12	08078	XFCA12	08050				
	3/8										3/32 × 3/64	10-32							SSFC12-3/8	G89783		
	1/2										1/8 × 1/16	1/4-20							SSFC12-1/2	G89784		
SSFC15	SOLID	7/8	N/A	1-1/2	2-3/4	1-1/4	3/4	3-3/4	N/A	N/A	SSFC15 SOLID	G89789	XFCBB15	08066	XFCR15	08080	XFCA15	08052				
	1/2										1/8 × 1/16	1/4-20							SSFC15-1/2	G89786		
	5/8		1-1/32																3/16 × 3/32	5/16-18	SSFC15-5/8	G89787
	3/4																		3/16 × 3/32	5/16-18	SSFC15-3/4	G89788
SSFC20	SOLID	1-1/8	N/A	2	3-11/16	1-3/4	1-1/8	4-13/16	N/A	N/A	SSFC20 SOLID	G89794	XFCBB20	08068	XFCR20	08082	XFCA20	08054				
	5/8																		3/16 × 3/32	5/16-18	SSFC20-5/8	G89790
	3/4		1-7/16																3/16 × 3/32	5/16-18	SSFC20-3/4	G89791
	7/8																		3/16 × 3/32	5/16-18	SSFC20-7/8	G89792
	1																		1/4 × 1/8	3/8-16	SSFC20-1	G89793
SSFC25	SOLID	1-3/8	N/A	2-1/2	4-1/8	2-1/4	1-1/4	5-3/8	N/A	N/A	SSFC25 SOLID	G89798	XFCBB25	08070	XFCR25	08084	XFCA25	08056				
	3/4																		3/16 × 3/32	5/16-18	SSFC25-3/4	G89795
	1		1-19/32																1/4 × 1/8	3/8-16	SSFC25-1	G89796
	1-1/4																		1/4 × 1/8	3/8-16	SSFC25-1-1/4	G89797
SSFC30	SOLID	1-5/8	N/A	3	5-15/32	2-3/4	1-11/16	7	N/A	N/A	SSFC30 SOLID	G89802	XFCBB30	08072	XFCR30	08086	XFCA30	08058				
	1																		1/4 × 1/8	3/8-16	SSFC30-1	G89799
	1-1/4		2-5/32																1/4 × 1/8	3/8-16	SSFC30-1-1/4	G89800
	1-3/8																		5/16 × 5/32	7/16-14	SSFC30-1-3/8	G89801
SSFC38	SOLID	1-7/8	N/A	3-3/4	6-5/16	3-1/2	1-7/8	8-3/16	N/A	N/A	SSFC38 SOLID	G89809	XFCBB38	08074	XFCR38	08088	XFCA38	08060				
SSFC45	SOLID	2-1/8	N/A	4-1/2	7-3/16	4	2-1/8	9-5/16	N/A	N/A	SSFC45 SOLID	G89810	XFCBB45	08076	XFCR45	08090	XFCA45	08062				

*Length of hole in each half. **Total length of assembled coupling with jaws engaged to full depth.

Notes: Bore tolerance: +.001"/-.000".
 Recommended shaft tolerance: Nominal
 +.000"/-.001".

**24 HOUR
MODIFIED STOCK
SHIPMENT**

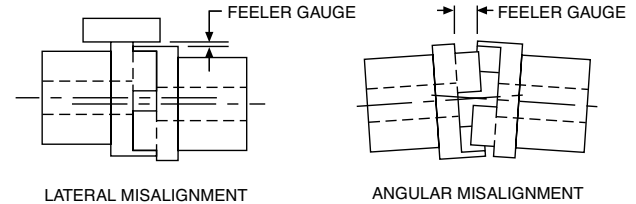
Contact the factory for bore sizes not listed above.
 Inch and metric options available.

Installation & Maintenance

Alignment

Alignment of Boston couplings should be performed by the following steps to meet lateral and angular misalignment specifications below.

1. Align shafts and supports to give minimum lateral and angular misalignment.
2. Assemble coupling halves to shaft.
3. Slide couplings together and check lateral misalignment using straight edge and feeler gauge over coupling outside diameter. This should be within specifications below.
4. Lock couplings on shaft and check distance using feeler gauges between drive lug on one half and space between on other coupling half. Rotate coupling and check gap at a minimum of 3 other coupling positions. The difference between any two readings should be within specifications below.



Misalignment Tolerances

Coupling Series	Lateral	Angular
FC - Bronze Insert	.001	See Chart Below
FC - Urethane Insert	.002	
FC - Rubber Insert	.002	

FC Series ANGULAR MISALIGNMENT

Chart reflects maximum angular misalignment of 1-1/2° for rubber, 1° for urethane and 1/2° for bronze.

Maximum Reading Differential

Size	Rubber	Insert Urethane	Bronze
FC12	.033	.022	.011
FC15	.039	.026	.013
FC20	.053	.035	.018
FC25	.066	.044	.022
FC30	.078	.052	.026
FC38	.097	.065	.032
FC45	.117	.078	.039

Performance & Selection

Boston Gear precision machined JS Series Universal Joints are designed for connecting shafts at angles up to 30 degrees and speeds up to 2000 RPM. All sizes are stocked with both solid and bored hubs.



Selection

Torque ratings may be calculated from data in tables. The tables indicate the Rated Static Torque (Lb. Ins.) and Speed-Angle factors suggested for various operating conditions.

The approximate service torque rating of a particular joint is obtained by dividing the Rated Static Torque by the appropriate Speed-Angle factor.

Selecting a universal to satisfy a specified torque requirement is also made convenient with the data provided.

The designated torque load should be multiplied by the appropriate Speed-Angle factor to obtain an equivalent static torque load.

A universal with a rated static torque equal to or greater than the calculated torque load would then be selected.

Example:

A pair of universal joints are desired to transmit 1/2 HP from one shaft running at 500 RPM to another located at an angle of 10 degrees (from a straight line).

The joints will be connected by an intermediate shaft and arranged to operate at equal angles of 5 degrees.

A Speed-Angle factor of 9 is indicated in the table for an operating angle of 5 degrees and a speed of 500 RPM.

$$\text{Torque Load} = \frac{63025 \times \text{HP}}{\text{RPM}} = \frac{63025 \times 1/2}{500} = 63 \text{ Lb. Ins.}$$

JS175 size stainless steel universals would be suggested for this application.

Speed-Angle Factors

Speed in RPM	Operating Angle - Degrees (Deviation From Straight Line)														
	0	1/2	1	2	3	4	5	6	8	10	12	15	20	25	30
2000	21	22	23.2	25.2	27.4	29.4	31.6	—	—	—	—	—	—	—	—
1800	19	20	21.0	22.8	24.8	26.6	28.6	30.4	—	—	—	—	—	—	—
1600	17	17.8	18.8	20.4	22.2	23.8	25.6	27.2	—	—	—	—	—	—	—
1400	15	15.8	16.6	18.0	19.6	21.0	22.6	24.0	27	—	—	—	—	—	—
1200	13	13.6	14.4	15.6	17.0	18.2	19.6	20.8	23.4	—	—	—	—	—	—
1000	11	11.6	12.2	13.2	14.4	15.4	16.6	17.6	19.8	22	—	—	—	—	—
900	10	10.6	11.0	12.0	13.0	14.0	15.0	16.0	18.0	20	22	—	—	—	—
800	9.0	9.4	10.0	10.8	11.8	12.6	13.6	14.4	16.2	18	19.8	—	—	—	—
700	8.0	8.4	8.8	9.6	10.4	11.2	12.0	12.8	14.4	16	17.6	20	—	—	—
600	7.0	7.4	7.8	8.4	9.2	9.8	10.6	11.2	12.6	14	15.4	17.6	—	—	—
500	6.0	6.4	6.6	7.2	7.8	8.4	9.0	9.6	10.8	12	13.2	15.0	18	—	—
400	5.0	5.2	5.6	6.0	6.6	7.0	7.6	8.0	9.0	10	11.0	12.6	15	17.6	—
300	4.0	4.2	4.4	4.8	5.2	5.6	6.0	6.4	7.2	8.0	8.8	10.0	12	14.0	16
200	3.0	3.2	3.4	3.6	4.0	4.2	4.6	4.8	5.4	6.0	6.6	7.6	9.0	10.6	12
100	2.0	2.2	2.2	2.4	2.6	2.8	3.0	3.2	3.6	4.0	4.4	5.0	6.0	7.0	8.0
50	1.5	1.6	1.7	1.8	2.0	2.2	2.2	2.4	2.8	3.0	3.4	3.8	4.6	5.2	6.0
25	1.3	1.3	1.4	1.5	1.6	1.8	1.9	2.0	2.2	2.6	2.8	3.2	3.8	4.4	5.0
10	1.1	1.2	1.2	1.3	1.4	1.5	1.7	1.8	2.0	2.2	2.4	2.8	3.4	3.8	4.4
0	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.6	1.8	2.0	2.2	2.6	3.0	3.6	4.0

Rated Static Torque (Lb. Ins.)

Stainless Steel Universal Joints

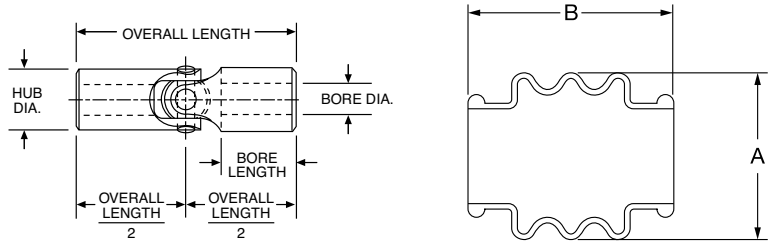
Catalog Number	JS37	JS50	JS62	JS75	JS87	JS100	JS112	JS125	JS150	JS175	JS200	JS250	JS300	JS400
Torque – Lb. Ins.	6	24	50	96	110	180	200	310	500	750	1320	1900	3100	7360

Dimensions

Pin and Block Type; Stainless Steel

Standard Tolerances

Dimensions		Tolerance
Bore	All	±.001
Hub Dia.	All	±.020
Bore Length	All	±1/64
Overall Length	1-3/4 - 4-1/4	±1/64
	5 - 10-5/8	±1/32



All Dimensions in Inches
Order By Catalog Number or Item Code

Stainless Steel		Universal Joints					Boot Kits† ††			
Catalog Number	Item Code	Bore**	Bore Length*	Hub Dia.	Overall Length	Approx. Weight Lbs.	A	B	Catalog Number	Item Code
JS37B	08472	3/16	11/16	3/8	1-3/4	.04	0.72	0.88	UB37	47602
JS37	08452	-	-	3/8	1-3/4	.05				
JS50B	08474	1/4	3/4	1/2	2	.08	0.95	0.88	UB50	47603
JS50	08454	-	-	1/2	2	.10				
JS62B	08476	5/16	13/16	5/8	2-1/4	.14	1.13	1.03	UB62	47604
JS62	08456	-	-	5/8	2-1/4	.18				
JS75B	08478	3/8	31/32	3/4	2-11/16	.24	1.38	1.25	UB75	47605
JS75	08458	-	-	3/4	2-11/16	.30				
JS87B	08480	7/16	1-1/32	7/8	3	.31	1.50	1.38	UB87	47606
JS87	08460	-	-	7/8	3	.45				
JS100B	08482	1/2	1-3/16	1	3-3/8	.50	1.50	1.50	UB100	47607
JS100	08462	-	-	1	3-3/8	.66				
JS112B	72483	9/16	1-7/32	1-1/8	3-1/2	.69	1.75	1.63	UB112	72491
JS112	72484	-	-	1-1/8	3-1/2	.88				
JS125B	08484	5/8	1-1/4	1-1/4	3-3/4	.88	1.88	2.09	UB125	47608
JS125	08464	-	-	1-1/4	3-3/4	1.15				
JS150B	08486	3/4	1-11/32	1-1/2	4-1/4	1.44	2.25	2.06	UB150	47609
JS150	08466	-	-	1-1/2	4-1/4	1.81				
JS175B	08488	7/8	1-9/16	1-3/4	5	2.31	2.69	2.63	UB175	47610
JS175	08468	-	-	1-3/4	5	2.86				
JS200B	08490	1	1-5/8	2	5-7/16	3.31	2.69	3.00	UB200	47611
JS200	08470	-	-	2	5-7/16	4.06				
JS250B	72485	1-1/4	2-3/32	2-1/2	7	6.81	3.50	4.00	UB250	47612
JS250	72486	-	-	2-1/2	7	8.25				
JS300B	72487	1-1/2	2-27/32	3	9	12.5	4.25	4.63	UB300	47613
JS300	72488	-	-	3	9	15.25				
JS400B	72489	2	3-1/8	4	10-5/8	25.8	6.00	5.50	UB400	47614
JS400	72490	-	-	4	10-5/8	31.3				

*Approximate Hub Projection

†Each Kit contains (2) Boots and (4) Ties together with complete instructions for installation and lubrication.

**Style B includes bore only. Units without a B letter have a solid bore.

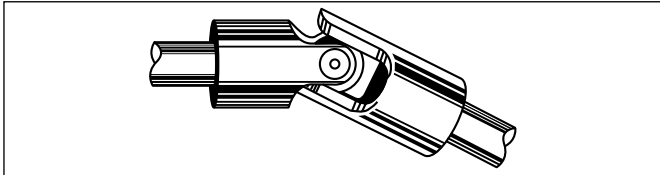
†† Assemble the boot to be positioned central to the joint.

The shape of the boot may vary from the image shown above.

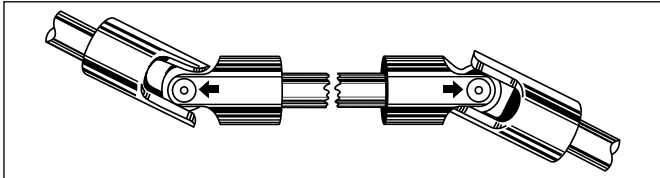
Installation & Maintenance

Mounting

A single universal joint (rotating at uniform speed) operating at an angle will introduce periodic variations of angular velocity to the driven shaft. These cyclic speed fluctuations (two per revolution) cause vibration, higher shaft stresses and bearing loads which will be more severe with larger angles of operation.



The detrimental effects of these rotational deviations can be reduced, and uniform speed restored by using two joints (and an intermediate shaft) to connect shafts at an angle or misaligned in a parallel direction.



For connecting shafts in the same plane the joints should be arranged to operate at equal angles and with the bearing pins of the yokes on the intermediate shaft in line with each other.

Lubrication

PIN and BLOCK TYPE

These universal joints are not lubricated when shipped.

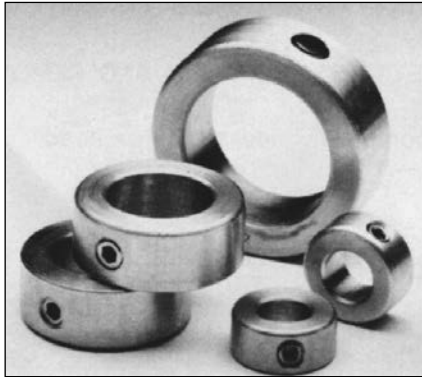
Many applications are considered severe when in harsh environments and when a combination of speed, dirt contamination and inaccessible locations make it impractical to maintain proper lubrication.

It is in these instances when the Boot Kits become a desirable alternative. For satisfactory performance, all booted joints should be used with a LITH-EP-000 grease for an ambient temperature range of 40° to 225°F.

Volume of Lubrication for Booted Joints

Size	Volume (Ozs.)	Size	Volume (Ozs.)	Size	Volume (Ozs.)
37	.4	100	2.0	250	25.0
50	.5	125	3.5	300	30.0
62	.75	150	4.5	400	50.1
75	1.0	175	7.0		
87	1.5	200	15.0		

NOTE: Joints should be initially lubricated with a 90 weight oil before being packed with grease.



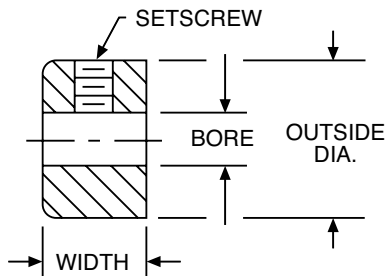
Stainless Steel Bore Sizes from 1/8" to 2"

Stainless Steel Collars are Corrosion-Resistant and Non-Magnetic suitable for temperatures up to 800°F. Ideal for applications requiring hygienic cleanliness.

All Collars Complete with Standard Hollow Point Setscrews.

All Dimensions in Inches Order By Catalog Number or Item Code

Bore	Outside Diameter	Width	Stainless Steel	
			Catalog Number	Item Code
1/8	3/8	1/4	SSC12	67740
3/16	7/16	1/4	SSC18	67741
1/4	1/2	5/16	SSC25	67742
5/16	5/8	11/32	SSC31	67743
3/8	3/4	3/8	SSC37	67744
1/2	1	7/16	SSC50	67745
5/8	1-1/8	1/2	SSC62	67746
3/4	1-1/4	9/16	SSC75	67747
7/8	1-1/2	9/16	SSC87	67748
1	1-1/2	5/8	SSC100	67749
1-1/8	1-3/4	5/8	SSC112	67784
1-1/4	2	11/16	SSC125	67785
1-1/2	2-1/4	3/4	SSC150	67788
1-3/4	2-5/8	7/8	SSC175	67789
2	3	7/8	SSC200	67790



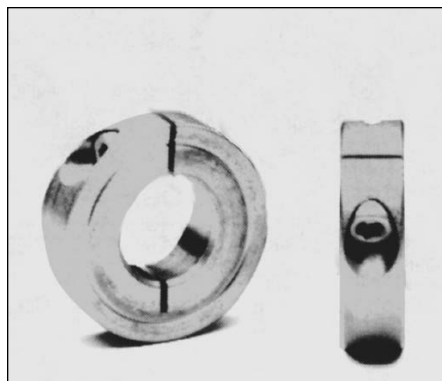
Standard Tolerances

Dimensions		Tolerance
Bore	1/8-1	-.001/ + .003
	1-1/8-2	-.001/ + .004

Materials

Stainless Steel—Type 303 Austenitic.

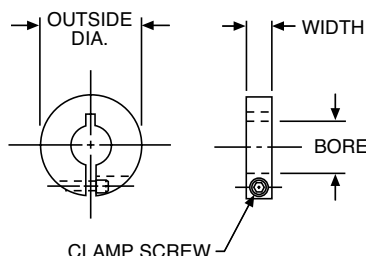
Smooth Bore



Design Provides Convenient Setting, Adjusting and Removal prevents shaft damage.

OSHA Conformance collars have completely recessed screw head.

Bore From 1/8" to 2"



All Dimensions in Inches

Order By Catalog Number or Item Code

Bore	O.D.	Width	Clamp Screws	Stainless Steel	
				Catalog Number	Item Code
1/8	13/16	1/4	4-40	CSSC12	49094
3/16				CSSC18	49095
1/4				CSSC25	49096
5/16				CSSC31	49097
3/8	1-1/16	5/16	6-32	CSSC37	49098
7/16				CSSC43	49099
1/2	1-1/4	3/8	8-32	CSSC50	49100
9/16				CSSC56	49101
5/8	1-1/2	13/32	10-32	CSSC62	49102
3/4	1-3/4			CSSC75	49104
7/8	1-7/8			CSSC87	49106
15/16				CSSC93	49107
1	2			CSSC100	49108
1-1/16				CSSC106	49109
1-1/8	2-1/8	1/2	1/4-28	CSSC112	49110
1-3/16				CSSC118	49111
1-5/16	2-3/8			CSSC143	49115
1-1/2	2-1/2			CSSC150	49116
1-15/16	3-1/4	5/8	5/16-24	CSSC193	49123
2				CSSC200	49124

Dimension in Inches

Bore	Axial Load Capacity (Lbs.)	Screw Size	Recommended Screw Torque (Lb. Ins.)	
			Steel	Stainless Steel
1/8-5/16	400	4-40	20	16
3/8-7/16	600	6-32	30	24
1/2-9/16	1400	8-32	55	35
5/8	1800	10-32	90	72
3/4-1-1/2	4000	1/4-28	220	170
1-15/16-2	6500	5/16-24	435	340

Materials

Stainless—Type 303 Austenitic

Load Data

Capacity is based on a standard steel, one-piece collar mounted with recommended screw torque on a lightly oiled shaft. Capacity is load to move collar .010". Data shown is for guidance only. In applications involving control of axial loads, capacity should be determined experimentally on actual parts involved.

Standard Tolerances

Dimensions		Tolerance
Bore	All	-.000 / +.003

Threaded Bore



Order By Catalog Number or Item Code

Bore	O.D.	Width	Clamp Screws	Stainless Steel	
				Catalog Number	Item Code
1/4-20	13/16	1/4	4-40	CSSC25-20	49265
3/8-16	1-1/16	5/16	6-32	CSSC37-16	49269
3/8-24				CSSC37-24	49270
1/2-13	1-1/4	3/8	8-32	CSSC50-13	49271
1/2-20				CSSC50-20	49272
5/8-11	1-1/2	13/32	10-32	CSSC62-11	49273
5/8-18				CSSC62-18	49274
3/4-10	1-3/4	1/2	1/4-28	CSSC75-10	49275
3/4-16				CSSC75-16	49276
1-8	2	1/2	1/4-28	CSSC100-8	49279
1-14				CSSC100-14	49280
1-1/4-12	2-1/4	1/2	1/4-28	CSSC125-12	49284

Materials

Stainless—Type 303 Austenitic

Bore Threads
From 1/4-20UNC To
1-1/4 - 12UNC

2SSC Series Stainless Steel Clamping Collars (2-Piece)

E

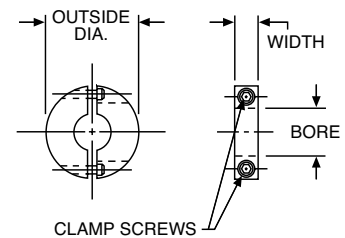
Design Provides Convenient Setting, Adjusting And Removal
prevents shaft damage.

OSHA Conformance collars have completely recessed screw head.

Bores From 1/4" To 2"

All Dimensions in Inches
Order By Catalog Number or Item Code

Bore	O.D.	Width	Clamp Screws	Stainless Steel	
				Catalog Number	Item Code
1/4	13/16	1/4	4-40	2SSC25	49190
5/16				2SSC31	49191
3/8	1-1/16	5/16	6-32	2SSC37	49192
7/16				2SSC43	49193
1/2	1-1/4	3/8	8-32	2SSC50	49194
9/16				2SSC56	49195
5/8	1-1/2	13/32	10-32	2SSC62	49196
11/16				2SSC68	49197
3/4	1-3/4	1/2	1/4-28	2SSC75	49198
7/8	1-7/8			2SSC87	49200
1	2			2SSC100	49202
1-1/16				2SSC106	49203
1-1/8	2-1/8			2SSC112	49204
1-3/16				2SSC118	49205
1-1/4	2-1/4			2SSC125	49206
1-5/16				2SSC131	49207
1-7/16	2-3/8			2SSC143	49209
1-1/2	2-1/2			2SSC150	49210
1-7/8	3-1/4	5/8	5/16-24	2SSC187	49216
1-15/16				2SSC193	49217
2				2SSC200	49218



Standard Tolerances

Dimensions		Tolerance
Bore	All	-.000 / + .003

Materials

Stainless—Type 303 Austenitic

Load Data

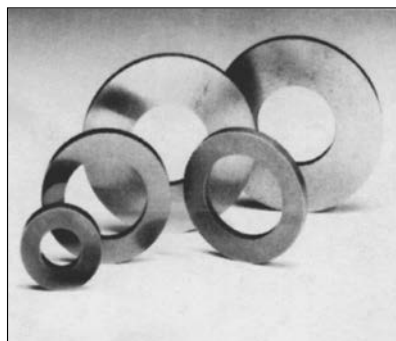
Capacity is based on a standard, one-piece collar mounted with recommended screw torque on a lightly oiled shaft. Capacity is load to move collar .010".

Data shown is for guidance only. In applications involving control of axial loads, capacity should be determined experimentally on actual parts involved.

Dimension in Inches

Bore	Axial Load Capacity (Lbs.)	Screw Size	Recommended Screw Torque (Lb. Ins.)
			Stainless Steel
1/4-5/16	400	4-40	16
3/8-7/16	600	6-32	24
1/2-9/16	1400	8-32	35
5/8-11/16	1800	10-32	72
3/4-1-1/2	4000	1/4-28	170
1-7/8-2	6500	5/16-24	340

Thrust Washer Only



Hardened and Ground Stainless Steel Bore Sizes From 3/16" to 1/2"

All Dimensions in Inches
Order By Catalog Number or Item Code

Bore	O.D.	Thickness	Catalog Number
Stainless Steel†			
3/16	7/16	1/16	06760
1/4	9/16	1/16	06762
5/16	5/8	5/64	06764
3/8	11/16	3/32	06766
1/2	7/8	1/8	06770

†These washers also listed with SAO Bearings.

Standard Tolerances

Dimensions	Tolerance
Bore	+ .0015 + .0070
O.D.	+ .000 - .005
Thickness	+ .000 - .005

Thrust Washers & Thrust Ball Bearing



Hardened Stainless Steel — SAO Series

For Light Loads

High Quality Hardened Steel Balls, retained in a nylon cage.

Hardened Thrust Washers, are ground both sides to provide smooth, flat, parallel ball raceway surfaces.

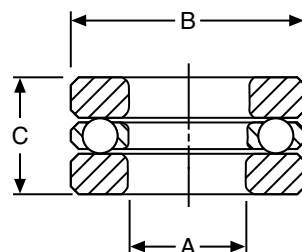
Quality and Number Of Balls assure high load carrying capacity.

Nylon Retainer assures minimum frictional losses.

Standard Tolerances

Dimensions		Tolerance
A*	All	+ .002 + .007
B	All	+ .000 - .005
C	All	+ .000 - .010

*SAO 16 +.002 to +.010



Load Data

The indicated load ratings are based on 2500 hours average life (L_{50}). To determine the load ratings at 3500 and 5000 hours, 90 percent and 80 percent respectively, of the above ratings should be used.

Basic Bearing Number	Thrust Capacity (lbs.)			
	Revolutions Per Minute			
	50	100	500	1000
SAO1	30	25	14	11
SAO5	64	56	31	25
SAO8	68	60	34	27
SAO10	85	72	42	32
SAO16	250	125	70	58

All Dimensions in inches
Order by Item Code (2 Washers and 1 Nylon Cage)

A	B	C	Balls		Basic Bearing Number	SAO Series Stainless Steel	
			Number	Diameter		Washer	Nylon Cage
3/16	7/16	3/16	9	1/16	SAO1	06760	56813
1/4	9/16	7/32	10	3/32	SAO5	06762	56814
5/16	5/8	1/4	10	3/32	SAO8	06764	56815
3/8	11/16	9/32	12	3/32	SAO10	06766	56816
1/2	7/8	3/8	10	1/8	SAO16	06770	56818

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TB Wood's

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For application assistance:
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*Mill Spindles, Ameriflex,
Ameridisc*

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San Marcos, TX - USA
1-800-458-0887

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+44 (0) 1992 501900

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New Hartford, CT - USA
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*Electromagnetic Clutches
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For application assistance:
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1-732-469-8770

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