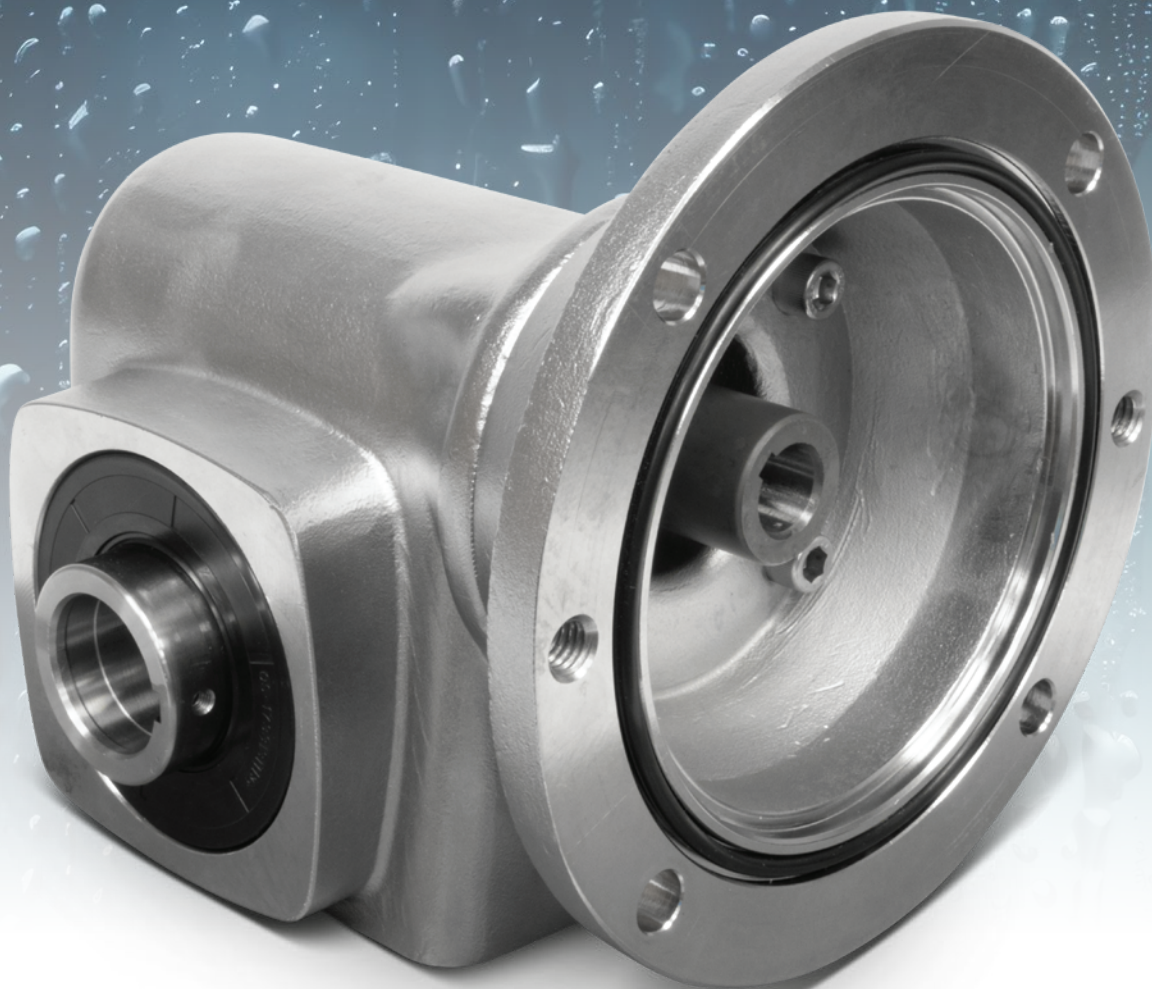


The new generation of Boston Gear's SS700 series stainless steel worm gearboxes package the form-fit-function of the original stainless steel speed reducers, with new upgrades and improvements.



- **Improved Domed Crown™** Curved Design offers ease of cleaning in the Food & Beverage industry
- **Larger Output Shaft Bore Sizes** for Smaller Speed Reducer Selection
- **IP69K Rated Stainless Steel** Enclosures for Gear Drive
- **Field-Installable Shaft Covers** for Speed Reducer
- **Lowest Operating Temperatures** Available*
- **Backwards Compatible** with original SS700 Stainless Steel Reducers

* when compared to like products

GEN 2 SS700 is the optimal solution for many applications within multiple food and beverage sectors and other related industries:



Meat



Poultry



Seafood



Pet Food



Fruit & Vegetables



Snack



Bakery



Grain



Dairy



Beverage



Chemical



Pharmaceutical

A1 SS700 Series Worm Gear Speed Reducers

Ordering Information

Single Reduction Worm Speed Reducer

Example: **SSHF7180B-40KC-B5-HS1-P20-FUTSS-3**

SS	H	F	7	180	B	-	40	K
Style Blank – Solid Output Shaft H – <i>BostMount</i> Hollow Output	F – Quill Style Motor Flange QC – Quick Connect Motor Flange (Close Coupled)	700 Series	Center Distance (Inches) 13 – 1.33 15 – 1.54 180 – 1.75 210 – 2.06 240 – 2.38 260 – 2.62 320 – 3.25	Base Blank – No Base B – Horizontal Base V – Output Flange - Right Mount W – Output Flange - Left Mount F – Output Flange holes (No Flange Included)	Reduction Ratio To 1 5 10 15 20 25 30 40 50 60 80 100	Lubrication K – Klubersynth UH1-6-460 (PAG) H1 Food-Grade D – Mobil Cibus SHC 460 (PAO) H1 Food-Grade		
SS – Stainless Steel Material								

Double Reduction Worm - Multiplier Speed Reducer

Example: **SSHFWP7320B-300KT-B5-HS1-P20**

SS	H	F	WP	7	32	B	-	300
	Style Blank – Solid Output Shaft H – <i>BostMount</i> Hollow Output	F – Quill Style Motor Flange QC – Quick Connect Motor Flange (Close Coupled)	Multiplier WP – Planetary Multiplier HM – Helical Multiplier	700 Series	Center Distance (Inches) 13 – 1.33 15 – 1.54 180 – 1.75 210 – 2.06 240 – 2.38 260 – 2.62 320 – 3.25	Base Blank – No Base B – Horizontal Base V – Output Flange - Right Mount W – Output Flange - Left Mount F – Output Flange holes (No Flange Included)		Reduction Ratio To 1 75 100 150 200 250 300 400 500
SS – Stainless Steel Material								

Double Reduction Worm - Worm Speed Reducer

Example: **SSHFWB7320B-3600KT-B5-LS1-P20**

SS	H	F	WB	7	32	B	-	3600
	Style Blank – Solid Output Shaft H – <i>BostMount</i> Hollow Output	F – Quill Style Motor Flange QC – Quick Connect Motor Flange (Close Coupled)		700 Series	Center Distance (Inches) 13 – 1.33 15 – 1.54 180 – 1.75 210 – 2.06 240 – 2.38 260 – 2.62 320 – 3.25	Base Blank – No Base B – Horizontal Base V – Output Flange - Right Mount W – Output Flange - Left Mount F – Output Flange holes (No Flange Included)		Reduction Ratio To 1 100 150 200 300 400 600 900 1200 1800 2000 2400 3000 3600
SS – Stainless Steel Material			Input & Output Style WB – Double Reduction Parallel Shafts WD – Double Reduction Right Angle Shafts					

C - **B5** - **HS** - **1** - **P20** - **FUTSS** - **3**

Seal Options

Blank – Standard Seals (Gen 1 only)

C – High pressure washdown output seals (Standard for Gen 2)

CT – C option plus Double Input Seals

IP69K

Output Shaft

303 Stainless Steel (when facing input)

GS – Stainless Output Projection - Left

HS – Stainless Double Output Projection

JS – Stainless Output Projection - Right

Mounting Positions

1 – Standard Mounting (Worm Over)

2-6 – Refer to Mounting Positions on Page 7

NEW **BestMount Output Bore Code**

Blank -Solid Output Shaft

Pxx see Table 1

APxx see Table 3

TPxx see Table 4 (Page 7)

Specified in 1/16" increments

Ex: xx = 20 for 1-1/4" (APxx, TPxx for sizes 7180, 7210, 7240 only)

PMxx and APMxx are metric and specified in mm

Motor C-Face Motor

Blank – No Motor

See Table 2 on Page 7

Motor Conduit Box Orientation

(When looking at fan end of motor and gearbox is in mounting position #1)

0 – 12 O'clock

3 – 3 O'clock (standard for G & H shaft assemblies)

6 – 6 O'clock

9 – 9 O'clock (standard for J shaft assemblies)

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY SIZES
B4	42CZ	.500	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32
B9	180TC/210C	1.125	1/4 x 1/8

K - **T** - **B5** - **HS** - **1** - **P20** - **-**

Lubrication

Blank – No Lubrication

K – Klubersynth UH1-6-460 (PAG)

D – Mobil Cibus SHC 460 (PAO)

H1 Food-Grade

Seal Options

Blank – Standard Seals

C – High pressure washdown output seals (Standard for Gen 2)

CT – C option plus Double Input Seals

IP69K

Output Shaft

303 Stainless Steel (when facing input)

GS – Stainless Output Projection - Left

HS – Stainless Double Output Projection

JS – Stainless Output Projection - Right

NEW **BestMount Output Bore Code**

Blank -Solid Output Shaft

Pxx see Table 1

APxx see Table 3

TPxx see Table 4 (Page 7)

Specified in 1/16" increments

Ex: xx = 20 for 1-1/4" (APxx, TPxx for sizes 7180, 7210, 7240 only)

PMxx and APMxx are metric and specified in mm

Motor C-Face Motor

Blank – No Motor

See Table 2 on Page 7

Motor Conduit Box Orientation

(When looking at fan end of motor and gearbox is in mounting position #1)

0 – 12 O'clock

3 – 3 O'clock (standard for G & H shaft assemblies)

6 – 6 O'clock

9 – 9 O'clock (standard for J shaft assemblies)

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY SIZES
B5	56C	.625	3/16 x 3/32

K - **T** - **B5** - **LS** - **1** - **P20** - **-**

Lubrication

Blank – No Lubrication Provided

K – Klubersynth UH1-6-460 (PAG)

D – Mobil Cibus SHC 460 (PAO)

H1 Food-Grade

Seal Options

Blank – Standard Seals

C – High pressure washdown output seals (Standard for Gen 2)

CT – C option plus Double Input Seals

IP69K

Output Shaft

303 Stainless Steel (when facing input of base housing)

MS – Stainless Output Projection - Left

LS – Stainless Double Output Projection

KS – Stainless Output Projection - Right

NEW **BestMount Output Bore Code**

Blank -Solid Output Shaft

Pxx see Table 1

APxx see Table 3

TPxx see Table 4 (Page 7)

Specified in 1/16" increments

Ex: xx = 20 for 1-1/4" (APxx, TPxx for sizes 7180, 7210, 7240 only)

PMxx and APMxx are metric and specified in mm

Motor C-Face Motor

Blank – No Motor

See Table 2 on Page 7

Motor Conduit Box Orientation

(When looking at fan end of motor and gearbox is in mounting position #1)

0 – 12 O'clock

3 – 3 O'clock (standard for M & L shaft assemblies)

6 – 6 O'clock

9 – 9 O'clock (standard for K shaft assemblies)

NEMA Motor Mounting

BORE CODE	NEMA MOUNTING	INPUT BORE	KEYWAY SIZES
B4	42CZ	.500	1/8 x 1/16
B5	56C	.625	3/16 x 3/32
B7	140TC/180C	.875	3/16 x 3/32

Mounting Positions

1 – Standard Mounting (Worm Over)

2-6 – Refer to Mounting Positions on Page 7

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
7180	J00304 XSS718-11H-BK
7210	J00305 XSS721-11H-BK
7240	J00879 XSS724-11H-BK
7260	J00306 XSS726-11H-BK
7320	J00307 XSS732-11H-BK

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

Stainless Steel Shaft Covers for SS700 Series

(Sold separately. Field installable and removable)

Size	Catalog Number
7180	XHSS7180-33-KIT
7210	XHSS7210-33-KIT
7240	XHSS7240-33-KIT
7260	XHSS7260-33-KIT
7320	XHSS7320-33-KIT

Gen1 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
Hardware Covers are not used on sizes 7180, 7210, 7240, 7260 and 7320.

Table 1: Hollow Output P-Shaft Bore Codes with Setscrews

Output Bore Size	Decimal Size*	Output Bore Code	713	715	7180	7210	7240	7260	7320	Key Size†
5/8	.6250	P10	S							.187 x .125 x 1.000
3/4	.7500	P12	•	•	•					.187 x .156 x 1.000
7/8	.8750	P14	•	•	•					.187 x .156 x 1.000
15/16	.9375	P15	•	•	•					.250 x .218 x 1.375
1	1.0000	P16	S	S	S	S	S	•		.250 x .218 x 1.375
1-1/8	1.1250	P18			•	•	•	•		.250 x .218 x 1.375
1-3/16	1.1875	P19			•	S	S	•		.250 x .218 x 1.375
1-1/4	1.2500	P20		NEW	S	S	S	S	•	.250 x .218 x 1.375
1-7/16	1.4375	P23				S	S	S	S	.375 x .312 x 1.750
1-1/2	1.5000	P24				S	NEW	S	S	.375 x .312 x 1.750
1-15/16	1.9375	P31						•	S	.500 x .375 x 2.000
2	2.0000	P32					NEW	•	•	.500 x .375 x 2.000
2-3/16	2.1875	P35						•	•	.500 x .375 x 2.000
2-1/4	2.2500	P36						NEW	•	.500 x .375 x 2.000
18MM		PM18			•					6mm x 6mm x 32mm
20MM		PM20			•	•	•			6mm x 6mm x 32mm
25MM		PM25			•	•	•	NEW	•	8mm x 7mm x 50mm
30MM		PM30			•	•	•	NEW	•	8mm x 7mm x 50mm
35MM		PM35			•	•	•	NEW	•	10mm x 8mm x 45mm
40MM		PM40					•	NEW	•	10mm x 8mm x 45mm
45MM		PM45							NEW	10mm x 8mm x 45mm
50MM		PM50							NEW	10mm x 8mm x 45mm

*Bore tolerance +.0015 / - .0000

S Standard Bore – Included in Express Program

• Optional Bore

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

Note: For all other bore sizes, contact factory.

NEW Table 3: Hollow Output AP-Shaft Bore Codes with Draw Bolt

Output Bore Size	Decimal Size*	Output Bore Code	7180	7210	7240	7260	7320	Key Size†
1	1.0000	AP16	S	•	•	•		.250 x .218 x 1.375
1-1/4	1.2500	AP20	S	S	S	•		.250 x .218 x 1.375
1-7/16	1.4375	AP23		•	•	•		.375 x .312 x 1.750
1-1/2	1.5000	AP24		S	S	•		.375 x .312 x 1.750
1-15/16	1.9375	AP31				•	•	.500 x .375 x 2.000
2	2.0000	AP32				•	•	.500 x .375 x 2.000
25MM		APM25	S			•		8mm x 7mm x 50mm
30MM		APM30	S	S	S	•		8mm x 7mm x 50mm
35MM		APM35		S	S	•		10mm x 8mm x 45mm
40MM		APM40				•	•	10mm x 8mm x 45mm
45MM		APM45				•	•	10mm x 8mm x 45mm
50MM		APM50					•	10mm x 8mm x 45mm

M = mm versions

Table 2: Stainless Steel AC Motors

Part #	HP	Type	Frame Size
EUT-SS	0.33	TENV	56C
FUT-SS	0.5	TENV	56C
NEW FYTF-SS	0.5	TEFC	56C
NEW FYTF-SS	0.5	TEFC	56C
GUT-SS	0.75	TENV	56C
HUT5/8-SS	1.0	TENV	56C
HUTF5/8-SS	1.0	TEFC	56C
NEW HYTF5/8-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

All above motors are 230/460V except FYTF-SS and HYTF5/8-SS which are 575V

TENV = Totally enclosed, non-ventilated

TEFC = Totally enclosed, fan-cooled

NEW Table 4: SS7000 Hollow Output TP-Shaft Bore Codes with Tapered Bushing

Output Bore Size	Decimal Size	Output Bore Code	7180 *	7210 *	7240 *	7260 **	7320 **
1	1.0000	TP16	S	•	•	•	
1-1/4	1.2500	TP20	S	S	S	•	•
1-7/16	1.4375	TP23		S	S	•	•
1-1/2	1.5000	TP24				•	•
1- 5/8	1.6260	TP26				•	•
1 - 3/4	1.7500	TP28				•	•
1 - 7/8	1.875	TP30				•	•
1-15/16	1.9375	TP31					•
2	2.0000	TP32					•

* Tapered Bushing can be removed using the 5/8-11 tapped hole provided in bushing.

** Tapered Bushing can be removed using the 3/4-10 tapped hole provided in bushing.

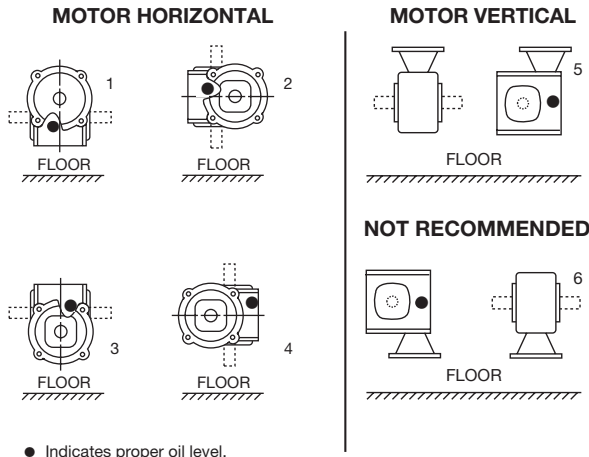
NEW Table 5: Hollow Output AP-Shaft Details

Unit Size	Draw -Up Bolt Size	Draw-Up Bolt Torque (-0 / +1 lbs-ft)
7180	1/2 -13	46 lbs-ft
7210	1/2 -13	55 lbs-ft
7240	1/2 -13	55 lbs-ft
7260	5/8 -11	88 lbs-ft
7320	5/8 -11	88 lbs-ft

Installation 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

Recommended Oil (or equivalent)	Viscosity Range SUS @ 100°F	ISO Viscosity Grade No.	Quart-Size Container Part No.
Klubersynth* UH1 6-460 (PAG) Synthetic H1 Food Grade Oil	1950/2500	460	65159
Mobil Cibus SHC 460 (PAO) Synthetic H1 Food Grade Oil	1950/2500	460	G06427

Ambient temperature range of -20°F to +125°F is suitable for standard configured products and ratings. Contact technical support for operating conditions beyond this range.

* 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	3	5	3	3	3
715	11	14	17	14	14	14
7180	9	9	9	9	9	9
7210	14	14	14	14	14	14
7240	14	17	17	17	17	17
7260	20	20	20	20	20	20
7320	45	45	45	45	45	45

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

NEW Tapered Bushing Installation and Removal

- Measure and mark distance Y2 of machine shaft. This measurement locates the end of the pilot bushing from the end of the customer's solid shaft.
- Carefully align the end of pilot bushing on mark from step 1. The tapered side should face the gearbox.
- Secure locking collar by tightening cap screw to correct torque setting (See chart for torque setting).
- Slide reducer onto pilot bushing.
- Slide tapered bushing into reducer bore.
- Insert Draw up bolt through the tapered bushing and into the customer's shaft.
- Tighten Draw up bolt to the correct torque setting (See chart).

Unit Size	Distance Y2 +/- .015"	Pilot Bushing Cap Screw Torque (-0 / +1 lbs-ft)	Draw-Up Bolt Size	Draw-Up Bolt Torque (-0 / +1 lbs-ft)
7180	5 - 11/16"	15 lbs-ft	1/2 -13	46 lbs-ft
7210	6 - 3/8"	29 lbs-ft	1/2 -13	55 lbs-ft
7240	6 - 3/8"	29 lbs-ft	1/2 -13	55 lbs-ft
7260	6 - 11/16"	29 lbs-ft	5/8 -11	88 lbs-ft
7320	*	29 lbs-ft	5/8 -11	88 lbs-ft

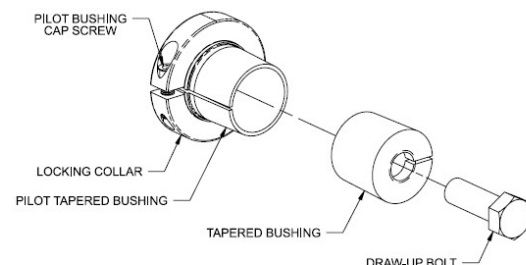
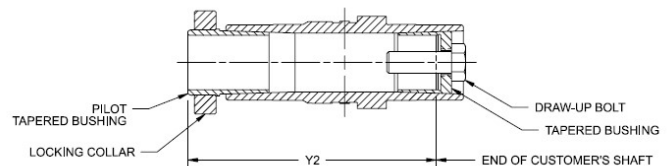
Note: Components to be clean and dry. Position Y2 is critical to prevent the tapered bushing from bottoming out on machine shaft. The customer's shaft must be allowed to float axially during the gearbox mounting procedure.

* For bore sizes TP16 thru TP24 Y2 = 7-7/16"
For bore sizes TP30 and up Y2 = 7-5/8"



To Remove Reducer:

- Loosen and remove Draw up bolt.
- Thread appropriate size bolt into tapered bushing (Not supplied). Typically, one thread size larger than the Draw up bolt.
- Tighten bolt until tapered bushing slides out of bore.
- Remove reducer from pilot bushing (Use of appropriate "drift" may help facilitate removal of reducer from pilot bushing).



A1 SS700 Series Single Reduction

Ratios and Performance

Single Reduction

Series Size			713			715			7180			7210			7240			7260			7320		
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.

Ratios and Performance

Worm-Planetary Double Reduction (WP)

Series Size			SS_WP713			SS_WP715			SS_WP7180			SS_WP7210			SS_WP7240			SS_WP7260			SS_WP7320		
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/WD7180			SS_WB/WD7210			SS_WB/WD7260			SS_WB/WD7320		
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.

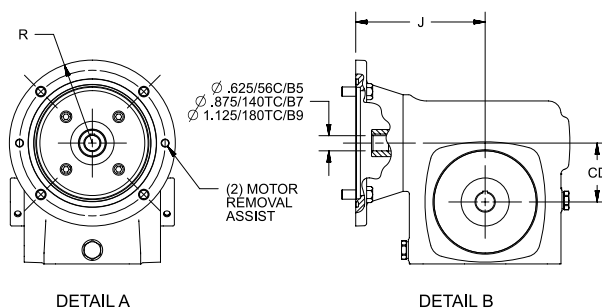
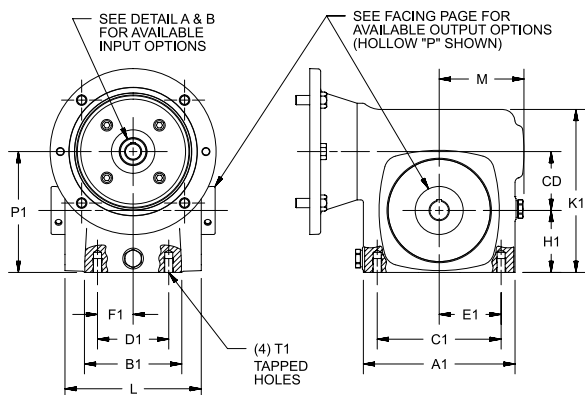
Note: For input speeds above 1750 RPM, do NOT exceed maximum listed input horsepower.

A1 SS700 Series Single Reduction, With and Without Base

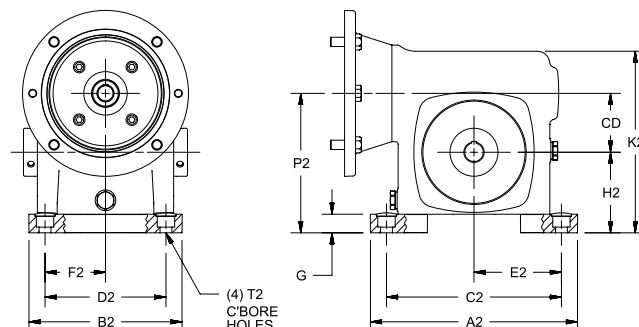
Dimensions



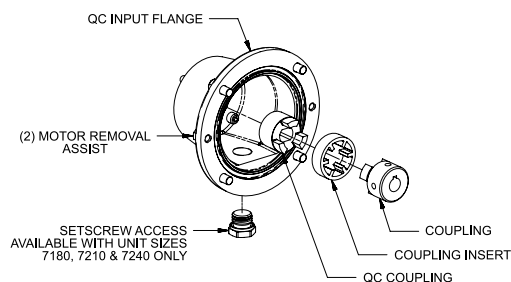
SSHF700 & SSHQC700 without Base Hollow Output Shaft with Setscrews Option



SSHF700 & SSHQC700 with Base Hollow Output Shaft with Setscrews Option



"QC" Quick Connect Input

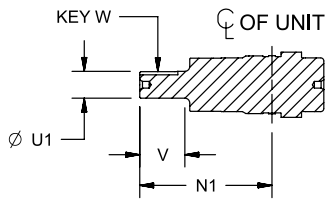


SIZE	C.D.	A1	B1	C1	D1	E1	F1	H1	J			
									F STYLE (QUILL)		QC STYLE	
									56C/140TC	180TC	56C/140TC	180TC
713	1.33	4.35	2.87	3.25	2.00	1.63	1.00	1.72	3.94	-	5.46	-
715	1.54	5.26	3.69	4.19	2.75	2.09	1.38	1.91	4.50	-	6.11	-
7180	1.75	5.25	3.68	4.19	2.75	2.09	1.38	2.06	4.78	-	6.46	-
7210	2.06	6.12	3.90	5.00	2.88	2.50	1.44	2.28	5.04	-	6.72	-
7240	2.38	6.12	3.93	5.00	2.88	2.50	1.44	2.50	5.22	-	6.90	-
7260	2.62	7.50	4.45	6.38	3.38	3.19	1.69	2.94	5.78	6.22	7.32	8.50
7320	3.25	8.80	5.20	7.50	4.00	3.75	2.00	3.50	6.56	7.00	8.10	9.28

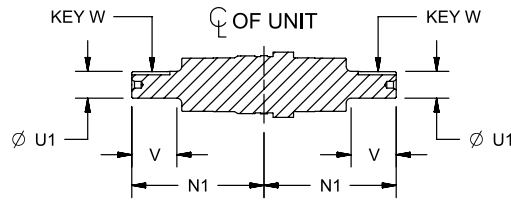
SIZE	K1	L	M	P1	R		T1	Approx. Weight (lbs.)			
					56C/140TC	180TC		SSF700	SSHF700	SSF700B	SSHF700B
713	4.27	3.75	2.18	3.06	3.33	-	5/16-18 x 0.50 DP	13	15	15	17
715	5.48	4.80	2.63	3.44	3.33	-	5/16-18 x 0.46 DP	21	24	23	26
7180	5.31	5.00	2.95	3.81	3.35	-	5/16-18 x 0.50 DP	24	23	27	26
7210	6.04	5.38	3.38	4.34	3.35	-	3/8-16 x 0.56 DP	28	27	31	30
7240	6.58	5.50	3.42	4.88	3.35	-	3/8-16 x 0.56 DP	35	34	39	38
7260	7.41	5.88	4.08	5.56	3.35	4.62	3/8-16 x 0.54 DP	45	43	49	47
7320	8.60	6.50	4.78	6.75	3.35	4.62	7/16-14 x 0.74 DP	67	64	74	71

SIZE	C.D.	A2	B2	C2	D2	E2	F2	G	H2	K2	P2	T2
713	1.33	5.25	4.19	4.38	3.31	2.19	1.66	0.53	2.25	4.80	3.59	0.53/0.34
715	1.54	6.46	5.50	5.25	4.31	2.63	2.16	0.60	2.50	6.08	4.06	0.61/0.42
7180	1.75	7.00	5.75	5.75	4.50	2.87	2.25	0.68	2.75	6.00	4.50	0.61/0.42
7210	2.06	7.62	5.94	6.38	4.69	3.19	2.34	0.71	3.00	6.75	5.06	0.70/0.48
7240	2.38	8.37	6.19	7.06	4.88	3.53	2.44	0.75	3.25	7.33	5.63	0.70/0.48
7260	2.62	9.25	6.50	8.00	5.25	4.00	2.63	0.74	3.68	8.15	6.31	0.79/0.54
7320	3.25	11.00	7.62	9.50	6.13	4.75	3.06	0.87	4.37	9.47	7.63	0.79/0.54

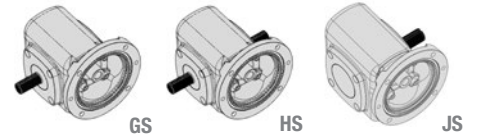
Projecting Output Shaft Details



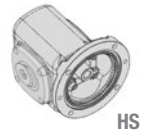
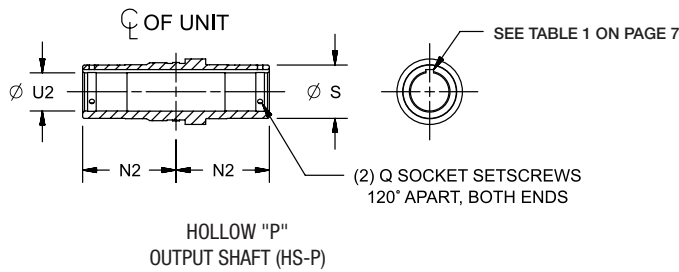
SINGLE PROJECTION
SOLID OUTPUT SHAFT (GS/JS)



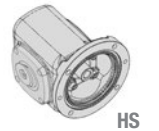
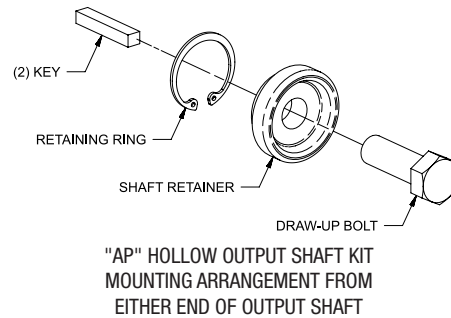
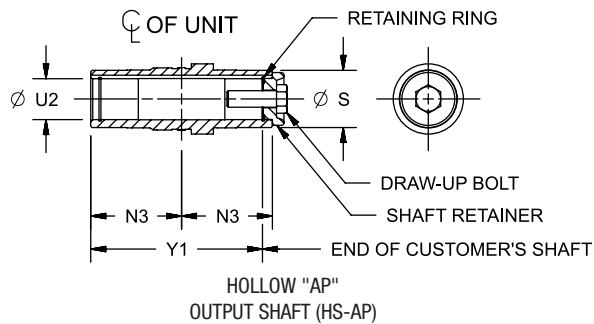
DOUBLE PROJECTION
SOLID OUTPUT SHAFT (HS)



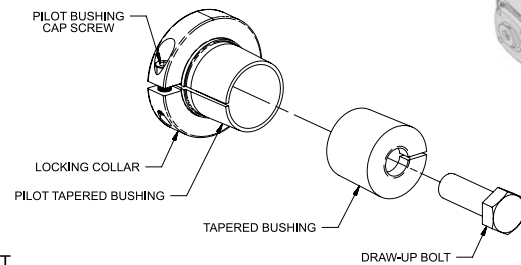
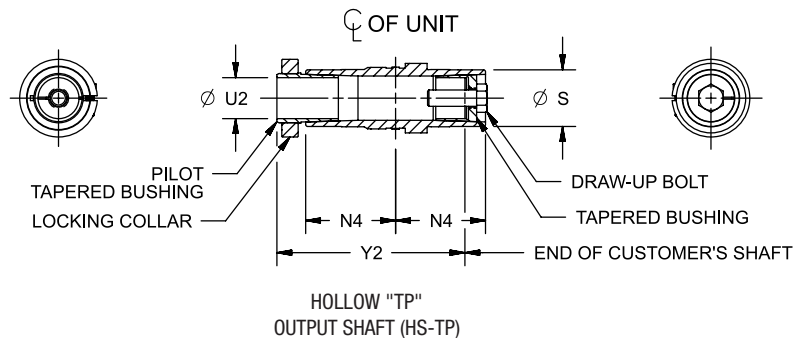
Hollow Output Shaft with Setscrews P-Shaft



NEW Hollow Output Shaft with Draw Bolt AP Shaft



NEW Hollow Output Shaft with Keyless Tapered Bushing TP Shaft



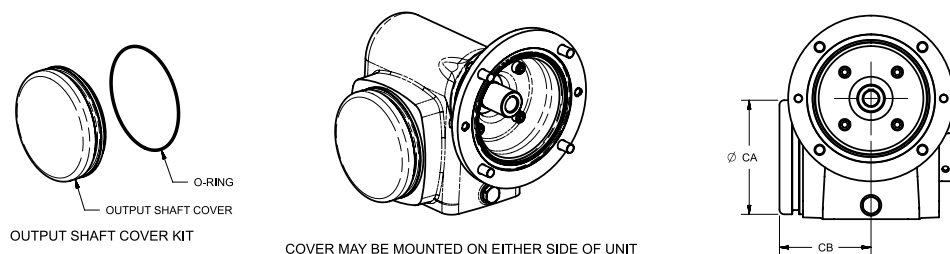
SIZE	CENTER LINE OF UNIT TO END OF SHAFT				Q	S	U1	MAX U2	V	W	Y1	Y2	Key Size
	N1	N2	N3	N4									
713	4.00	2.50	-	-	#10-32	1.38	0.625	1.0000	2.00	3/16 x 1	-	-	*
715	4.31	3.03	-	-	#10-32	1.38	0.750	1.0000	1.78	3/16 x 1	-	-	*
7180	4.31	3.03	2.75	2.75	#10-32	1.73	0.875	1.2500	1.47	3/16 x 1	5.20	5-11/16	*
7210	4.69	3.31	3.00	3.00	1/4-28	1.94	1.000	1.5000	1.66	1/4 x 1-1/4	5.70	6-3/8	*
7240	5.09	3.31	3.00	3.00	1/4-28	1.94	1.125	1.5000	2.00	1/4 x 1-1/4	5.70	6-3/8	*
7260	5.63	3.50	3.12	3.12	5/16-24	2.44	1.125	2.0000	2.41	1/4 x 1-15/16	5.93	6-11/16	*
7320	7.06	4.00	3.50	3.50	5/16-24	2.83	1.375	2.2500	3.40	5/16 x 2-7/16	6.67	**	*

* Refer to Table 1 on page 7.

** For bore sizes TP16 thru TP24 Y2 = 7-7/16; For bore sizes TP30 and up Y2 = 7-5/8

A1 SS700 Series Single Reduction

Shaft Cover Option

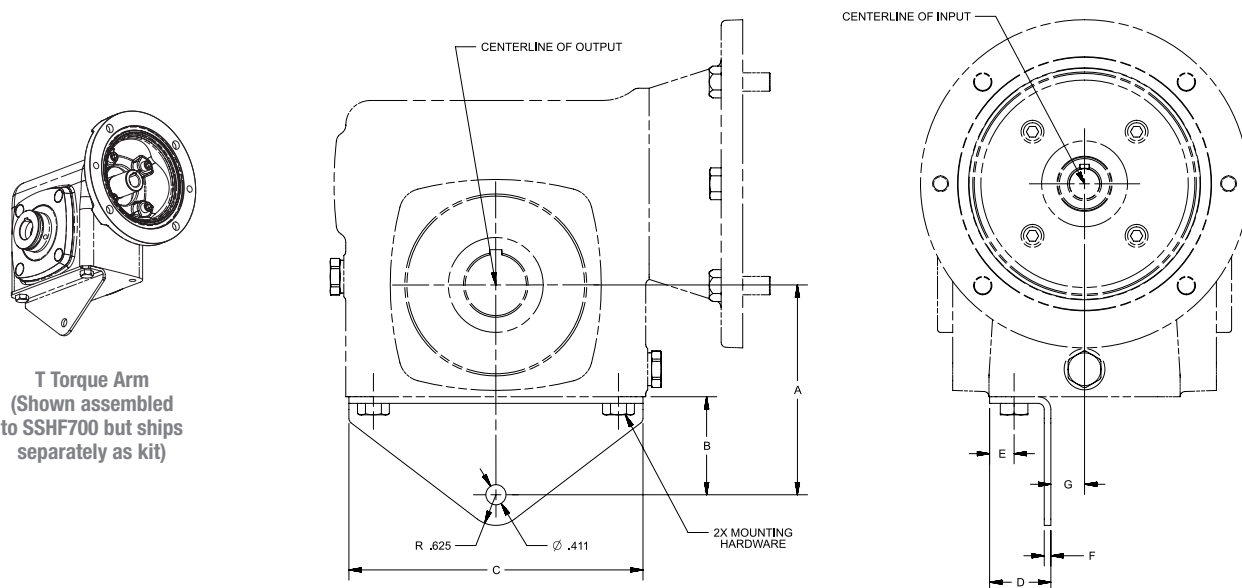


UNIT SIZE	CATALOG NUMBER	CA	CB*	APPROX. WT
7180	XHSS7180-33-KIT	3.49	3.45	.81 LBS
7210	XHSS7210-33-KIT	4.11	3.69	1.10 LBS
7240	XHSS7240-33-KIT	4.61	3.70	1.24 LBS
7260	XHSS7260-33-KIT	5.00	3.90	1.26 LBS
7320	XHSS7320-33-KIT	6.25	4.25	1.85 LBS

Cover Face Wall Thickness = 0.09 Inches. Max shaft projection of customer shaft from centerline should be less than CB dimension minus Wall thickness.

Torque Arm Option

SSHF700T & SSHQC700T Hollow Output Shaft, T Torque Arm



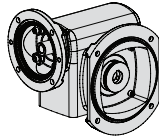
Size	Kit Catalog Number	A	B	C	D	E	F	G	Mounting Hardware (2X) SS HEX Head Cap Screws
713	XHSS718-34-KIT	3.22	1.50	5.06	1.12	0.44	0.135	0.31	5/16-18 X 1 / 2
715	XHSS718-34-KIT	3.41	1.50	5.06	1.12	0.44	0.135	0.69	5/16-18 X 1 / 2
7180	XHSS718-34-KIT	3.56	1.50	5.06	1.12	0.44	0.135	0.69	5/16-18 X 1 / 2
7210	XHSS724-34-KIT	4.28	2.00	6.00	1.25	0.50	0.135	0.69	3/8-16 X 5/8
7240	XHSS724-34-KIT	4.50	2.00	6.00	1.25	0.50	0.135	0.69	3/8-16 X 5/8
7260	XHSS726-34-KIT	5.44	2.50	8.68	1.68	0.59	0.250	0.60	3/8-16 X 3/4
7320	XHSS732-34-KIT	6.00	2.50	8.68	1.68	0.59	0.250	0.91	7/16-14 X 7/8

*Stainless hex head bolt (x2) supplied.

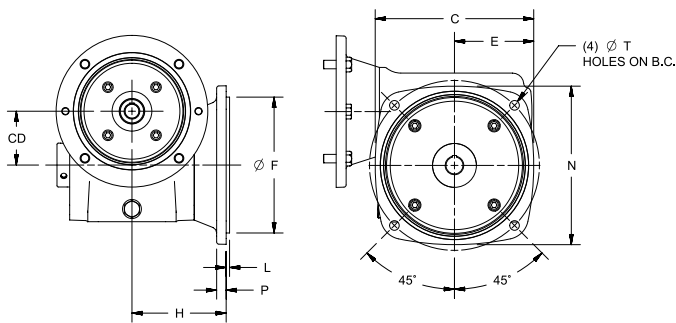
Output Flange Option



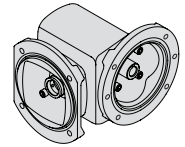
SSHF700V & SSHQC700V Hollow Output Shaft, V Position



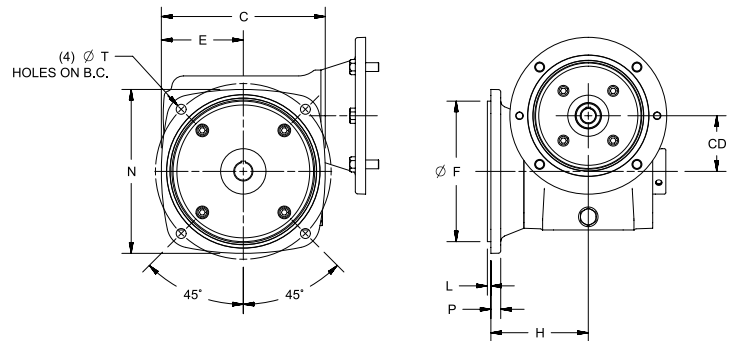
V Output Flange



SSHF700W & SSHQC700W Hollow Output Shaft, W Position



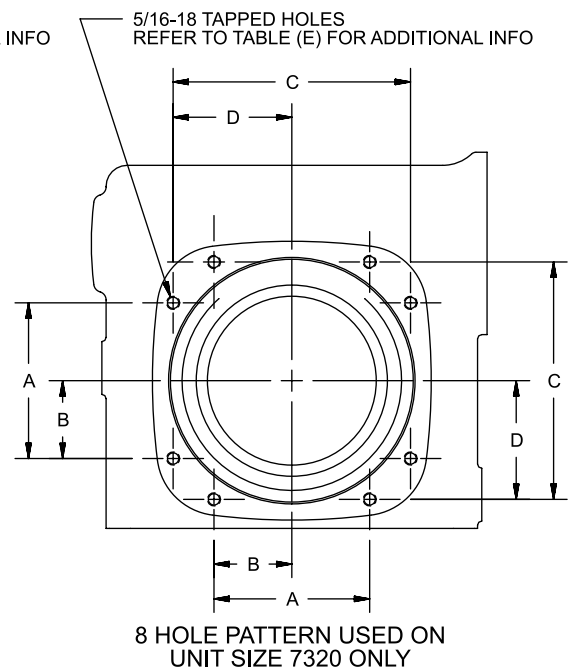
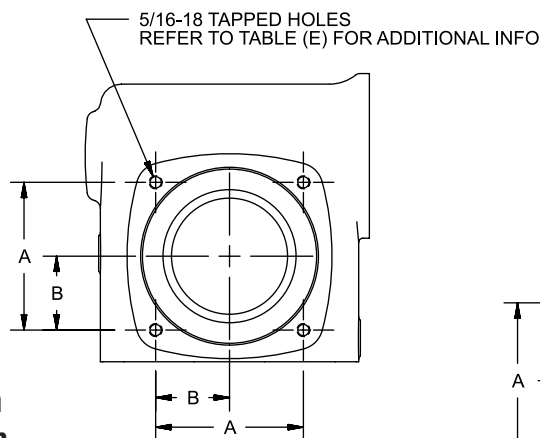
W Output Flange



SIZE	C.D.	C	E	F	H	L	N	P	T			APPROXIMATE WEIGHT (LBS.)	
									HOLE DIA	C'BORE DIA	B.C.	SSF700	SSH700
713	1.33	4.75	2.38	4.125	3.18	0.15	5.80	0.68	0.362	Ø 0.60 x 0.48 DP	5.00	17	19
715	1.54	5.54	2.77	4.750	4.08	0.15	6.94	1.05	0.362	Ø 0.60 x 0.48 DP	5.88	26	29
7180	1.75	6.00	3.00	4.750	3.62	0.15	6.00	0.30	0.362	-	5.88	27	26
7210	2.06	6.25	3.12	5.250	3.94	0.15	6.25	0.36	0.425	-	6.50	32	31
7240	2.38	7.00	3.50	5.500	4.16	0.15	7.00	0.42	0.425	-	7.50	40	39
7260	2.62	7.50	3.75	6.500	4.45	0.15	7.50	0.42	0.425	-	8.00	49	56
7320	3.25	9.25	4.62	8.000	5.50	0.15	9.25	0.44	0.535	-	10.00	80	93

Tapped Flange Holes with Supplied V/W Base Option

Size	A	B	C	D	E	
					NO. OF HOLES	THREAD DEPTH
7180	2.720	1.360	-	-	4	0.50
7210	3.062	1.531	-	-	4	0.50
7240	3.500	1.750	-	-	4	0.50
7260	3.920	1.960	-	-	4	0.58
7320	3.688	1.844	5.624	2.812	8	0.65

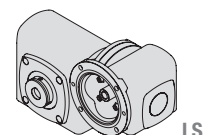
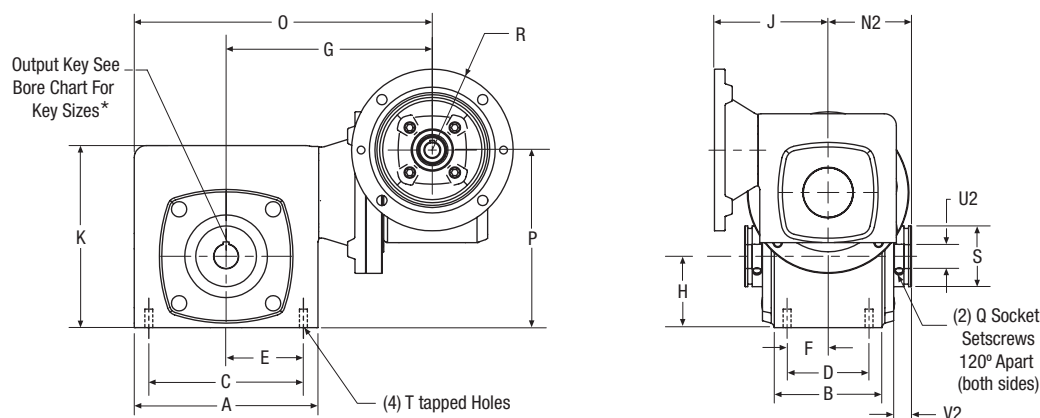


A1 SS700 WB Series Double Reduction, Parallel Shafts

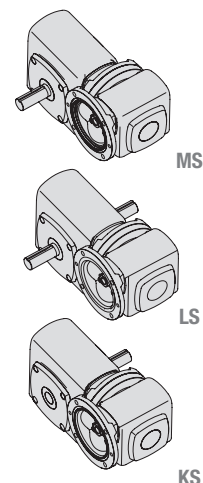
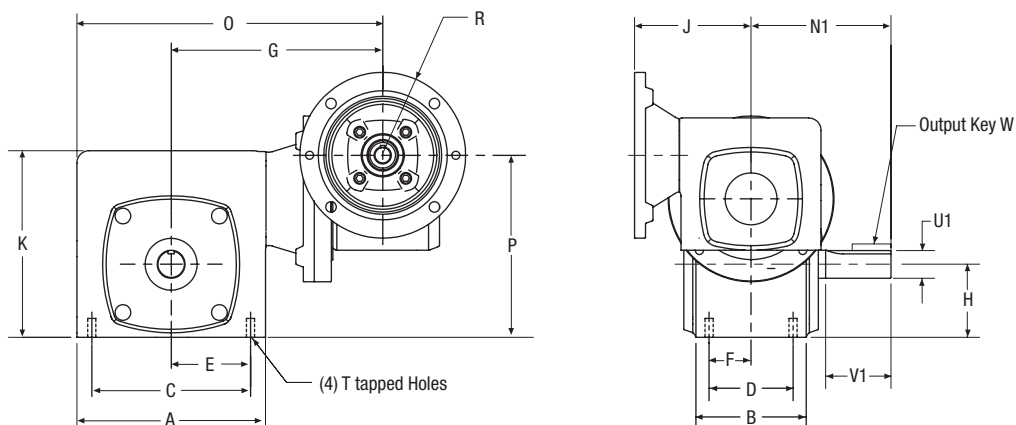
Dimensions



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 †			Hollow Style			
									56C/140TC	56C/140TC			P	AP		
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
7180	5.25	3.68	4.19	2.75	2.09	1.38	7.85	2.06	3.94	5.46	5.31	4.31	3.03	2.75	10.80	5.15
7210	6.12	3.90	5.00	2.88	2.50	1.44	8.10	2.28	3.94	5.46	6.04	4.69	3.31	3.00	11.40	5.68
7260	7.50	4.45	6.38	3.38	3.19	1.69	8.84	2.94	3.94	5.46	7.41	5.63	3.50	3.12	12.89	6.90
7320	8.80	5.20	7.50	4.00	3.75	2.00	9.56	3.50	4.78	6.46	8.60	7.06	4.00	3.50	14.31	8.50

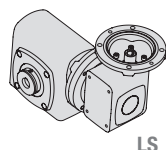
SIZE	Q	R † 56C/140TC	S	T	Low Speed Shaft							Approx Weight (lbs.)	
				Tap Size	Solid Output Shaft				Hollow Bore Output				
					W - Key				Max U2*	V2			
					U1	V1	Sq.	Length		P	AP		
SSFWB	SSHFWB												
713	#10-32	3.33	1.38	5/16-18	0.625	2.13	3/16	1	1.0000	0.63	—	33	35
7180	#10-32	3.32	1.73	5/16-18	0.875	1.47	3/16	1	1.2500	0.53	0.25	44	43
7210	1/4-28	3.32	1.94	3/8-16	1.000	1.66	1/4	1-1/4	1.2500	0.62	0.31	48	47
7260	5/16-24	3.32	2.44	3/8-16	1.125	2.41	1/4	1-15/16	2.0000	0.56	0.19	65	63
7320	5/16-24	3.35	2.83	7/16-14	1.375	3.40	5/16	2-7/16	2.2500	0.75	0.25	95	92

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

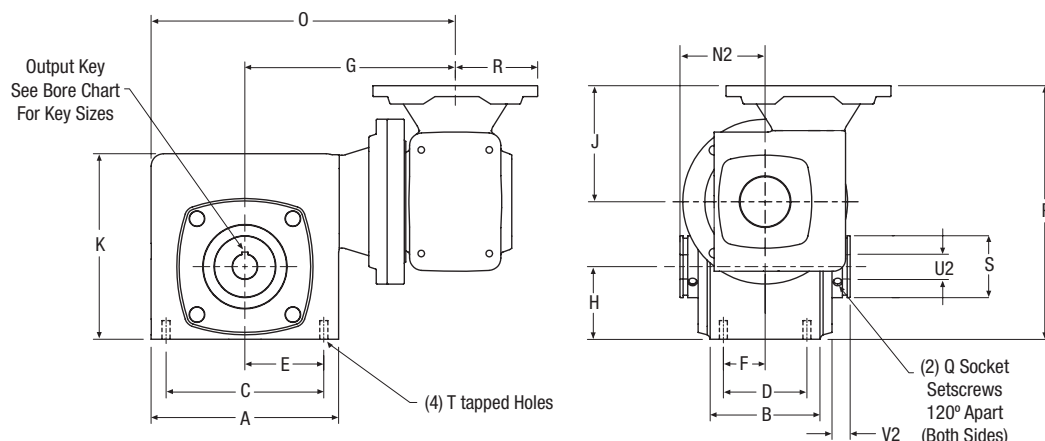
Dimensions



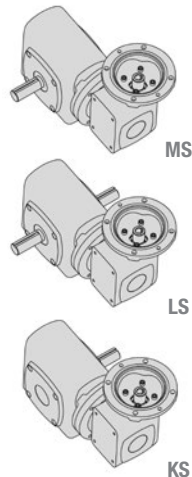
SSHFWD700 & SSHQCWD700 Hollow Output Shaft



LS



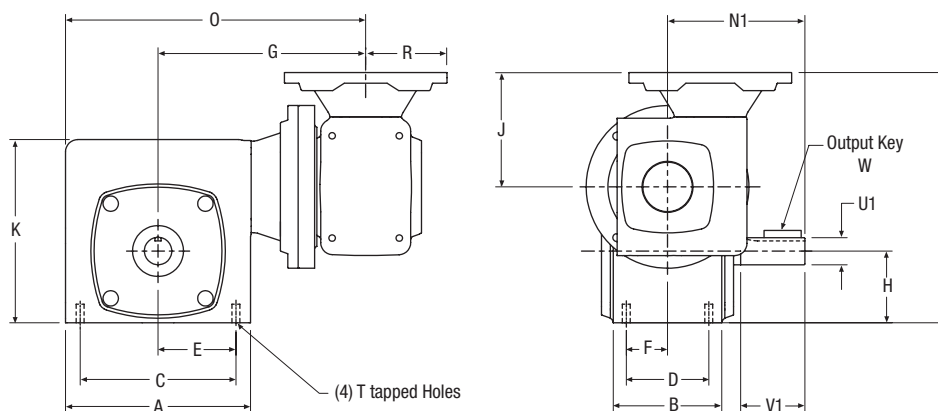
SSFWD700 & SSQCWD700 Solid Output Shaft



MS

LS

KS



SIZE	A	B	C	D	E	F	G	H	J †		K	N1	N2		O	P †	
									F700	QC700			Hollow Style	F700		QC700	
									56C/140TC	56C/140TC							P
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
7180	5.25	3.68	4.19	2.75	2.09	1.38	7.85	2.06	3.94	5.46	5.31	4.31	3.03	2.75	10.80	7.75	9.27
7210	6.12	3.90	5.00	2.88	2.50	1.44	8.10	2.28	3.94	5.46	6.04	4.69	3.31	3.00	11.40	8.28	9.80
7260	7.50	4.45	6.38	3.38	3.19	1.69	8.84	2.94	3.94	5.46	7.41	5.63	3.50	3.12	12.89	9.50	11.02
7320	8.80	5.20	7.50	4.00	3.75	2.00	9.56	3.50	4.78	6.46	8.60	7.06	4.00	3.50	14.31	11.45	13.22

SIZE	Q	R † 56C/140TC	S	T	Low Speed Shaft							Approx Weight (lbs.)	
				Tap Size	Solid Output Shaft				Hollow Bore Output				
					U1	V1	W - Key		Max U2*	V2			
							Sq.	Length		P	AP	SSFWD	SSHFW
713	#10-32	3.33	1.38	5/16-18	0.625	2.13	3/16	1	1.0000	0.63	—	33	35
7180	#10-32	3.32	1.73	5/16-18	0.875	1.47	3/16	1	1.2500	0.53	0.25	44	43
7210	1/4-28	3.32	1.94	3/8-16	1.000	1.66	1/4	1-1/4	1.2500	0.62	0.31	48	47
7260	5/16-24	3.32	2.44	3/8-16	1.125	2.41	1/4	1-15/16	2.0000	0.56	0.19	65	63
7320	5/16-24	3.35	2.83	7/16-14	1.375	3.40	5/16	2-7/16	2.2500	0.75	0.25	95	92

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

