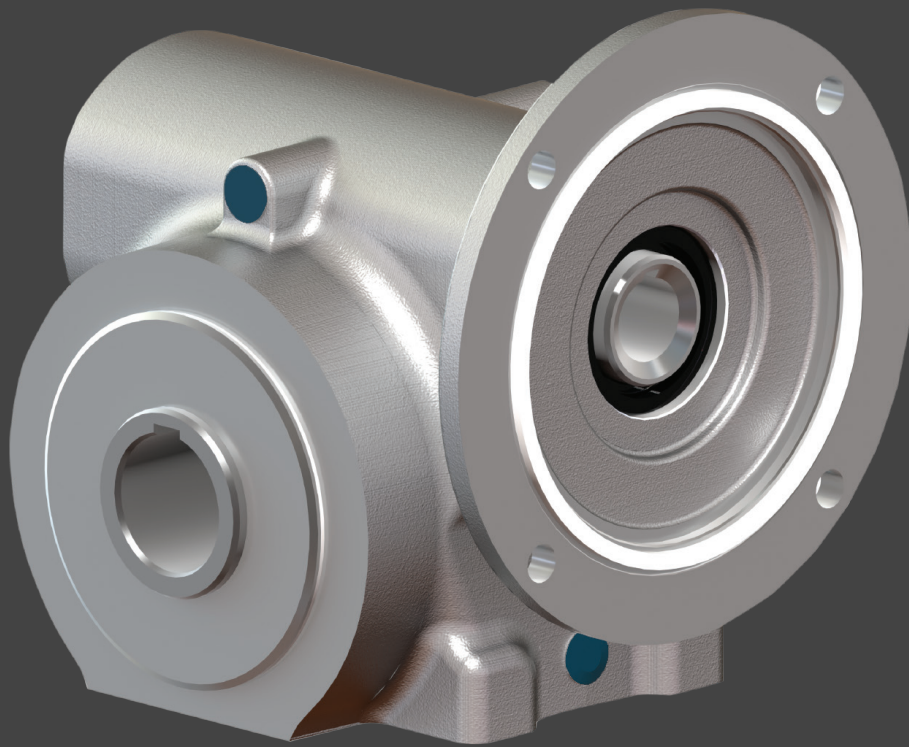
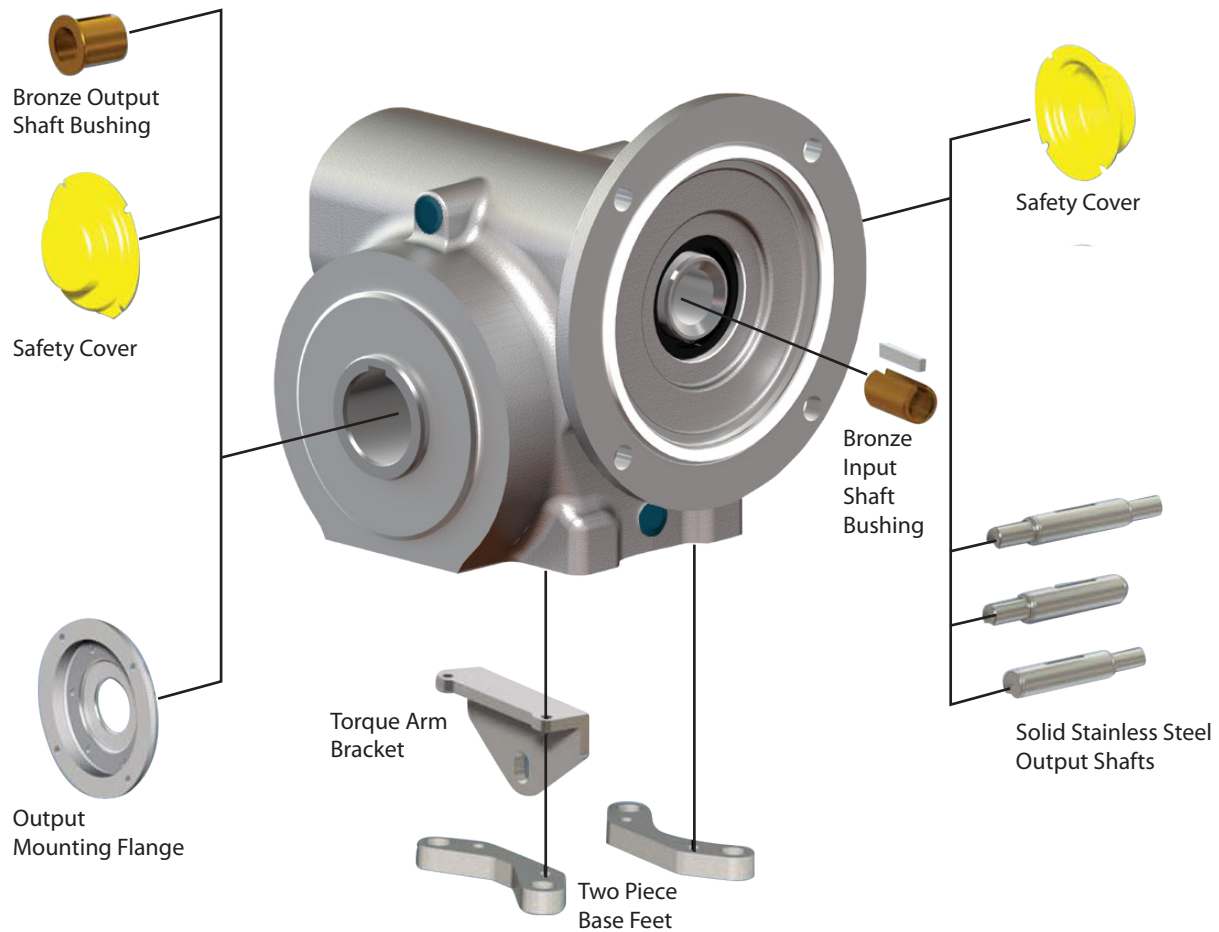


STAINLESS CONVEYOR DRIVE





WINSMITH KLD

The Winsmith KLD is a keyless shaft locking device that is the perfect addition to the IP69K certified Stainless Conveyor Drive

Key Benefits

- **Ease of Assembly & Disassembly**
 - Fewer parts and simplified design allow for installation in minutes
- **Mitigate Fretting Corrosion**
 - Proprietary surface preparation and zero backlash connection mitigate fretting corrosion allowing for easier disassembly
- **Engineered Tapered Bushings**
 - Accommodate standard drive shaft, negating the need for specialized end-user shafts



SUPERIOR WASH DOWN PERFORMANCE

Continuous, Smooth Housing

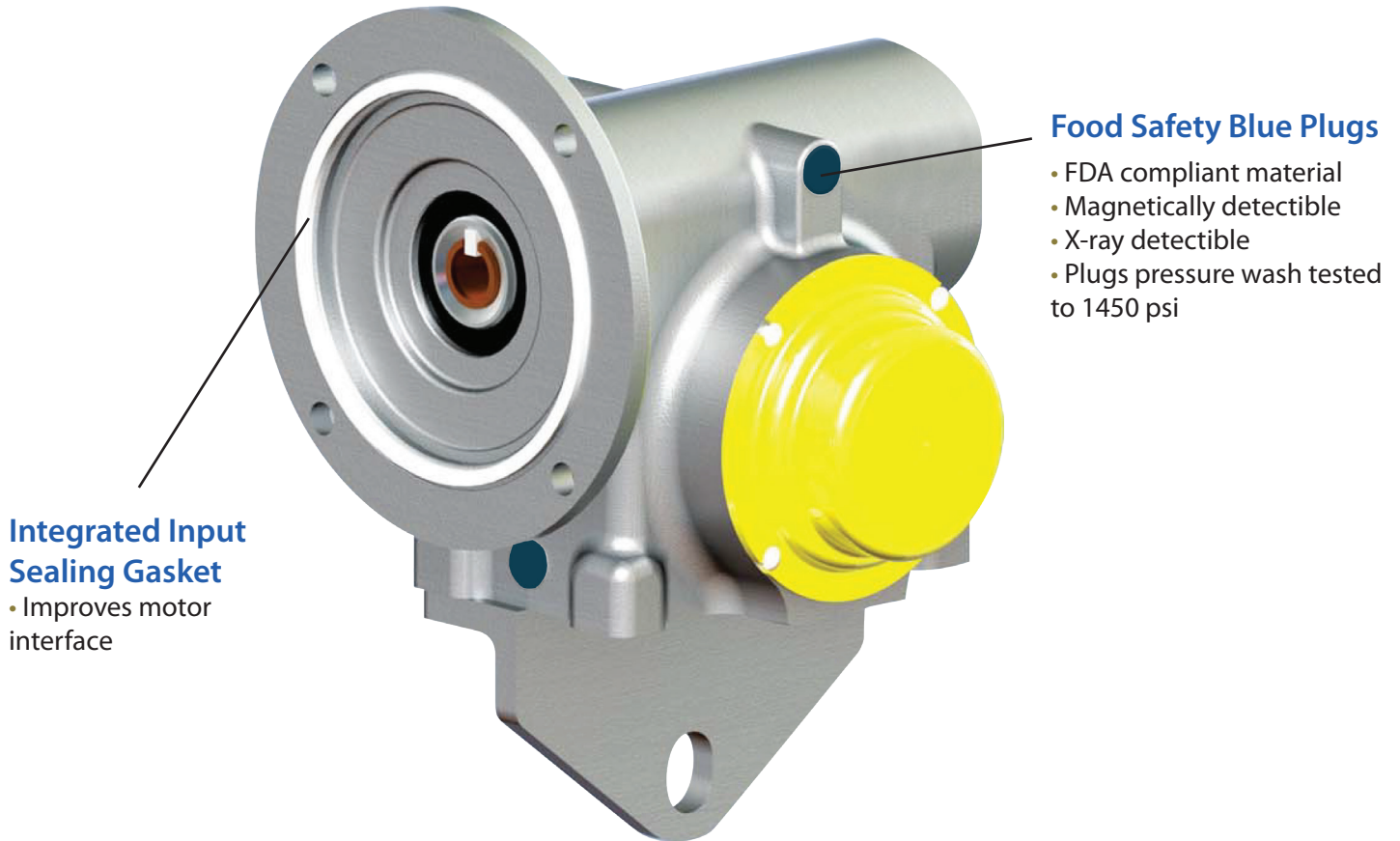
- No covers, seams, or bolts make wash down easy and minimize the possibility for bacterial growth

Mobil Glygoyle* 460 H1 Registered Lubricant

- Suitable for food contact

Sealed Operation

- Superior wash down performance for meat and poultry conveyors



Integrated Input Sealing Gasket

- Improves motor interface

Food Safety Blue Plugs

- FDA compliant material
- Magnetically detectible
- X-ray detectible
- Plugs pressure wash tested to 1450 psi

Premium Efficiency Gearing

- Up to 97% efficient gearing provides affordable energy savings

24 Hour Availability

- Over 15,000 configurations available
- 5 case sizes, 9 gear ratios
- Reduces downtime and minimizes inventory

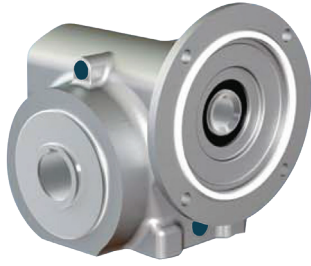
Common Industry Interchange Dimensions

- Simplifies installation

IP69K Certified for Severe Washdown

- 176 °F water and steam at 1450 psi, 4 gal/minute

*Glygoyle is a registered trademark of Exxon Mobil Corporation or one of its subsidiaries.



MPSS
HOLLOW OUTPUT



MPNS
SOLID OUTPUT



MPRS
HOLLOW OUTPUT WITH
TORQUE ARM BRACKET



MSFS
HOLLOW OUTPUT
WITH OUTPUT FLANGE



MDPS
SOLID OUTPUT
WITH BASE FEET



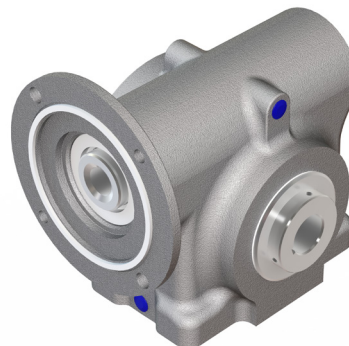
MPTS
HOLLOW OUTPUT
WITH BASE FEET

MPMS CONFIGURATION

Hollow output shaft with a set-screw connection for an added ease of installation

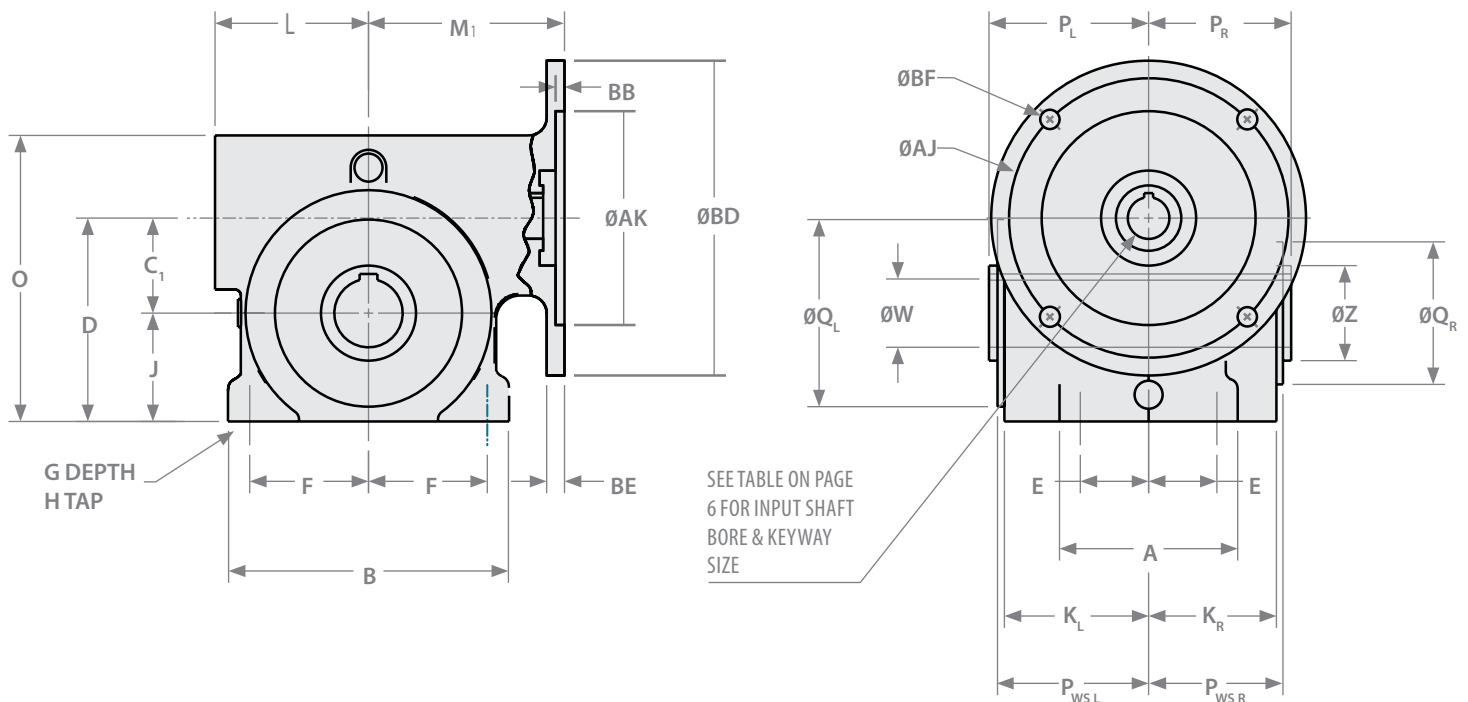
Key Features

- **Stainless Output Shaft with Set Screws**
 - Improves interchangeability
 - Simple, effective shaft connection
- **Symmetrical Dimensions**
 - Offers a wider range of mounting options



*See page 5 for dimensions

DIMENSIONS



SPEED REDUCER

SIZE	A	B	C ₁	D	E	F	G DEPTH	H TAP	J	K ₁	K _R	L	O	P _L	P _R	P _{WSL}	P _{WSR}	Q _L	Q _R	Z
S17	3.56	5.22	1.750	3.81	1.38	2.09	0.52	3/16-18	2.06	2.88	2.50	3.27	5.25	3.19	2.81	3.04	2.66	3.63	2.19	1.49
S20	3.75	5.92	2.000	4.28	1.44	2.50	0.62	3/16-16	2.28	3.04	2.69	3.23	6.01	3.35	3.01	3.20	2.85	3.94	3.00	1.99
S24	3.75	6.19	2.375	4.88	1.44	2.50	0.63		2.50	3.14	2.78	3.89	6.75	3.46	3.09	3.30	2.94	4.63	3.25	2.24
S26	4.50	7.50	2.625	5.56	1.69	3.19	0.69		2.94	3.31	2.81	3.82	7.38	3.63	3.12	3.47	2.97	5.25	3.50	2.49
S30	5.13	8.67	3.000	6.50	2.00	3.75	0.69	7/16-14	3.50	3.63	3.00	4.15	8.69	4.00	3.38	3.79	3.16	6.00	3.75	2.62

QUILL INPUT ADAPTERS

SIZE	M ₁		AJ		AK		BB		BD		BE		BF		INPUT KEYWAY	
	56C 140TC	180TC	56C 140TC	180TC	56C 140TC	180TC	56C 140TC	180TC	56C 140TC	180TC	56C 140TC	180TC	56C 140TC	180TC	56C 140TC	180TC
S17	4.18										0.31					
S20	4.13	NA		NA		NA		NA		NA	0.38	NA		NA		NA
S24	5.38		5.88		4.50		0.19		6.63		0.33		0.406		3/16 X 3/32	
S26	5.34	6.02		7.25		8.50		0.19	9.00		0.34	0.68		0.531		1/4 X 1/8
S30	5.54	6.22									0.35					

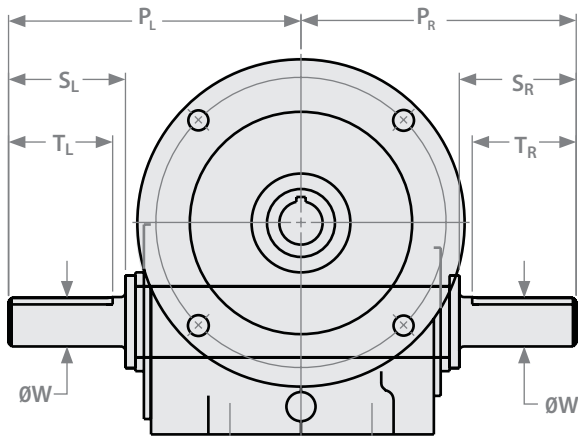
INPUT SHAFT BORES

SIZE	BORE ^{+0.001} / _{-0.000}
56C	0.6255
140TC	0.8755
180TC	1.1255

MPMS CONFIGURATION

SIZE	K _L	K _R	P _L	P _R	P _{WSL}	P _{WSR}
S17	2.62	2.50	3.09	3.03	2.78	2.66
S20	2.98	2.40	3.54	3.03	3.13	2.56
S24	2.79	2.61	3.38	3.22	2.95	2.77
S26	3.15	2.57	3.74	3.20	3.30	2.72
S30	3.63	3.00	4.31	4.31	3.78	3.15

All dimensions are in inches.



HOLLOW OUTPUT SHAFT BORE SIZES (W)**

SIZE	1.000	1.188	1.250	1.438	1.500	1.688	1.938
S17	●						
S20	▲ ●	▲ ●	▲ ●	●			
S24	▲ ●	▲	▲ ●	●	●		
S26	▲ ●	◆	▲ ●	▲	▲ ●	●	
S30	◆	◆	▲ ●	▲	◆	◆	●
OUTPUT KEYWAY	1/4 x 1/8	1/4 x 1/8	1/4 x 1/8	3/8 x 3/16	3/8 x 3/16	3/8 x 3/16	1/2 x 3/16

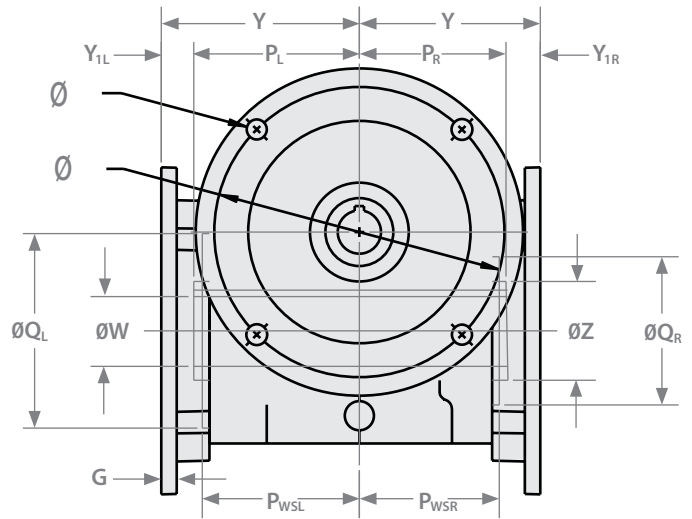
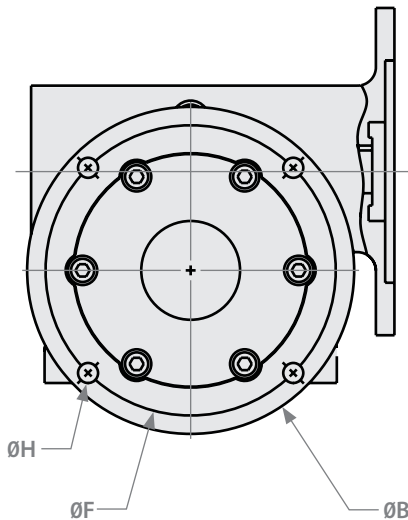
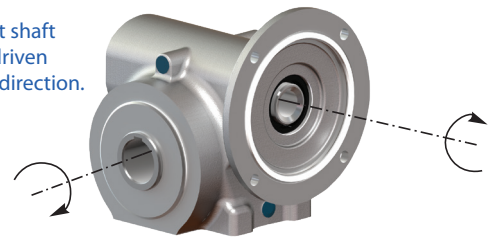
● = Bored to size ▲ = Bronze bushing available ◆ = Optional
 * Keyway is 3/8 x 1/8 ** Bore Tolerance +.002/.000

SOLID OUTPUT SHAFTS

SIZE	P _L	P _R	S _L	T _L	W*	OUTPUT KEYWAY	S _R	T _R
S17	5.75	5.38	2.41	2.38	0.875	3/16 x 3/32	2.41	2.38
							2.51	
S20	5.91	5.58	2.36	2.28	1.000	1/4 x 1/8	2.36	2.28
S24	6.27	5.91	2.60	2.52	1.125		2.60	2.52
					1.250			
S26	6.42	5.97	2.59	2.58	1.125	2.59	2.50	
					1.250			
					2.53			
S30	6.57	6.56	2.63	2.55	1.375	2.63	2.55	
					1.500			
					2.58			

*Shaft Diameter Tolerance: +.000/-.001

The input shaft may be driven in either direction.



OUTPUT MOUNTING FLANGES

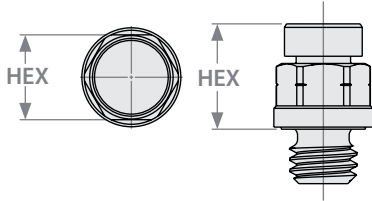
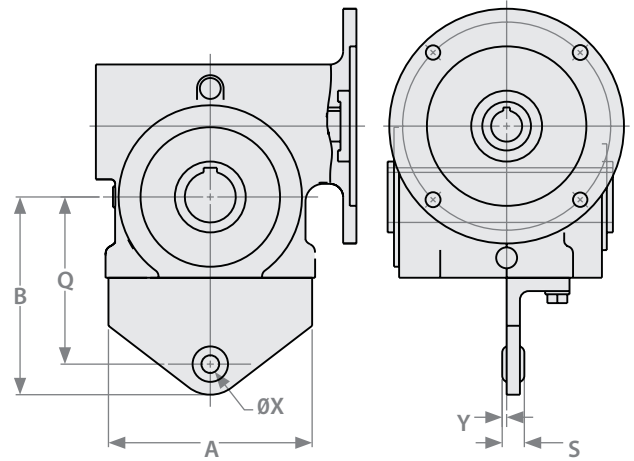
SIZE	B	F	G	H	P _L	P _R	Q _R	Y _L	Y _R	Y _{1L}	Y ₁
S17	6.56	5.875	0.31	0.344	3.19	2.81	2.19	3.88	3.50	0.69	0.69
S20	6.62	5.875		3.35	3.01	3.00	4.02	3.67	0.67	0.66	
S24	8.41	7.500	0.38	0.406	3.46	3.09	3.25	4.14	3.78	0.68	0.69
S26	8.89	8.000			3.63	3.12	3.50	4.37	3.87	0.74	0.75
S30	10.00	9.000			4.00	3.38	3.75	4.81	4.19	0.81	0.81

All dimensions are in inches.



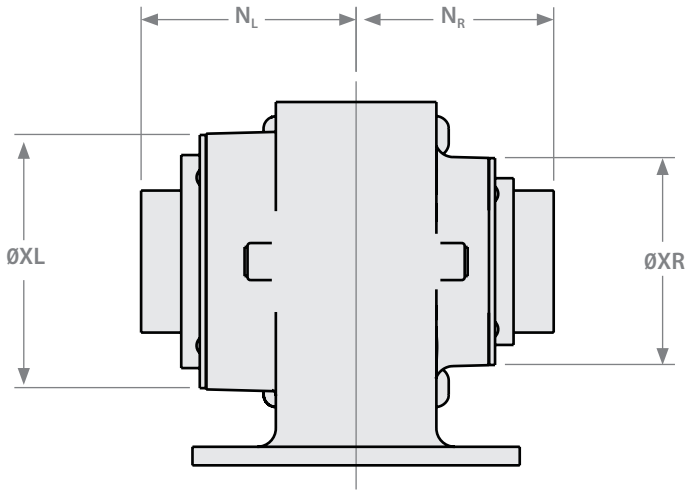
TORQUE ARM BRACKETS

SIZE	A	B ₁	Q ₁	S	X	Y	KIT#
S17	5.13	5.36	4.50	0.63	0.50	0.13	TK9952720
S20	5.75	5.58	4.72				TK9952721
S24	6.00	5.80	4.94				TK9952722
S26	7.25	6.24	5.38				TK9952723
S30	7.63	6.80	5.94				TK9952724



VENT OPTION

HEIGHT	HEX	KIT #
0.59	0.50	52096



SHAFT CLAMPING COLLARS

BORE	THK.	O.D.	KIT #
1.000	0.50	1.75	CK52228
1.188		2.06	CK52230
1.250		2.38	CK52231
1.438	0.56	2.25	CK52233
1.500		2.38	CK52234
1.688	0.69	2.75	CK52235
1.938		3.00	CK52237

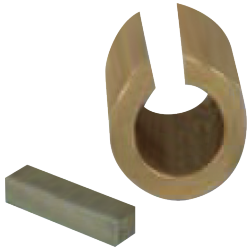
SAFETY COVERS

SIZE	COVER SIDE	N _L	N _R	X _L	X _R	KIT #
S17	L/R	4.13	3.75	4.63	3.50	CK9952710
	Left		—		—	CK9952710L
	Right		3.75		3.50	CK9952710R
S20	L/R	4.35	4.00	5.13	4.19	CK9952711
	Left		—		—	CK9952711L
	Right		4.00		4.19	CK9952711R
S24	L/R	4.45	4.09	5.75	4.81	CK9952712
	Left		—		—	CK9952712L
	Right		4.09		4.81	CK9952712R
S26	L/R	4.75	4.25	6.42	4.90	CK9952713
	Left		—		—	CK9952713L
	Right		4.25		4.90	CK9952713R
S30	L/R	5.19	4.56	7.46	5.28	CK9952714
	Left		—		—	CK9952714L
	Right		4.56		5.28	CK9952714R

BRONZE HOLLOW OUTPUT SHAFT BUSHINGS

SIZE	BUSHING I.D. **	KIT #
S20	1.000	WKS850468
	1.188	WKS850625
	1.250	WKS850469
S24	1.000	WKS850653
	1.188	WKS850662
	1.250	WKS850470
S26	1.000	WKS850627
	1.250	WKS850479
	1.438	WKS850472
S30	1.500	WKS850473
	1.250	WKS850481
	1.438	WKS850474

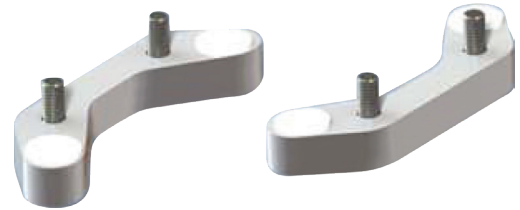
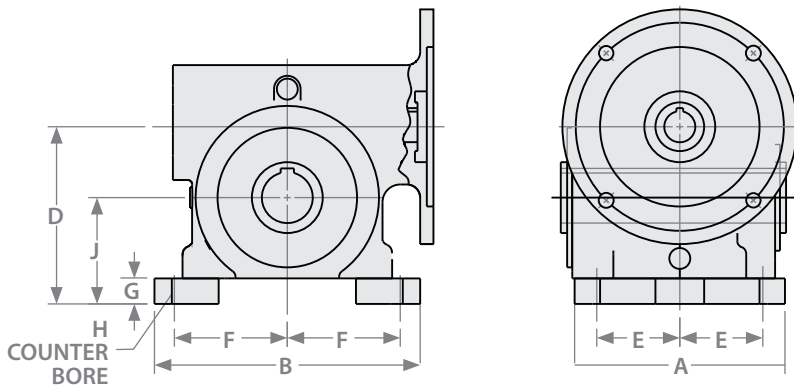
** Bore Tolerance $^{+0.002}/_{.000}$



BRONZE INPUT SHAFT BUSHING

MOTOR FLANGE (SHAFT DIAMETER)	REDUCER INPUT ADAPTOR (BORE SIZE)	BUSHING LENGTH	KEYWAY SIZE	KIT #
56C (0.625)	140TC (0.875)	1.44	3/16 X 3/32	WK9810170

All kits include mounting hardware. | All dimensions are in inches.



BASE FEET (TWO-PIECE)

SIZE	A	B	D	E	F	G	H	J	KIT #
S17	5.63	6.86	4.50	2.25	2.87	0.69	3/8 SHCS	2.75	BK9998140
S20	5.81	7.50	5.00	2.34	3.19	0.72		3.00	BK9998141
S24	6.12	8.30	5.63	2.44	3.53	0.75	7/16 SHCS	3.25	BK9998142
S26	6.65	9.41	6.31	2.63	4.00			3.69	BK9998143
S30	7.63	11.00	7.38	3.06	4.75	0.88	1/2 SHCS	4.38	BK9998144

SHCS = Socket Head Cap Screw.

RATINGS SUMMARY

QUICK SELECT AT 1750 RPM INPUT SPEED, 1.0 SERVICE FACTOR*

Output RPM	Ratio	MOTOR INPUT HORSEPOWER										
		0.25	0.33	0.50	0.75	1.00	1.50	2.00	3.00	5.00	7.50	10.00
350	5	S17	S17	S17	S17	S17	S17	S17	S20	S26	S26	S30
233	7.5	S17	S17	S17	S17	S17	S17	S17	S24	S26	S30	
175	10	S17	S17	S17	S17	S17	S17	S20	S24	S30		
117	15	S17	S17	S17	S17	S17	S20	S24	S26	S30		
88	20	S17	S17	S17	S17	S20	S24	S24	S30			
70	25	S17	S17	S17	S20	S20	S24	S26	S30			
58	30	S17	S17	S17	S20	S24	S26	S30				
44	40	S17	S17	S17	S24	S24	S30	S30				
35	50	S17	S17	S20	S24	S26	S30					
29	60	S17	S20	S24	S26	S30						
22	80	S24	S24	S26								
18	100	S24	S26									

CONTINUOUS DUTY MECHANICAL RATINGS, 1.0 SERVICE FACTOR*

Size	Ratio ¹	Output RPM	5	7.5	10	15	20	25	30	40	50	60	80	100
			1750 INPUT SPEED											
S17	Input HP		2.69	2.06	1.64	1.15	0.94	0.70	0.66	0.52	0.41	0.27	0.16	0.11
	Output Torque (lbf.-in.)		462	525	554	568	604	547	596	603	558	417	311	236
	Efficiency		95	94	94	91	89	87	84	80	76	72	64	59
	Overhung Load (lbf)**		438	438	438	438	438	438	438	438	438	438	438	438
S20	HP		3.70	2.84	2.24	1.59	1.24	1.01	0.86	0.68	0.56	0.41	0.22	0.16
	Output Torque (lbf.-in.)		639	732	769	794	806	803	788	795	791	656	437	355
	Efficiency		96	95	95	92	90	88	85	82	79	74	67	61
	Overhung Load (lbf)**		1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164
S24	Input HP		5.89	4.54	3.67	2.71	2.11	1.61	1.45	1.11	0.92	0.70	0.38	0.27
	Output Torque (lbf.-in.)		1017	1168	1249	1359	1383	1285	1360	1335	1329	1134	735	576
	Efficiency		96	95	95	93	91	88	87	83	80	75	66	59
	Overhung Load (lbf)**		1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177
S26	HP		7.70	5.93	4.82	3.42	2.64	2.17	1.80	1.42	1.18	0.92	0.49	0.34
	Output Torque (lbf.-in.)		1334	1533	1650	1724	1745	1758	1712	1737	1748	1556	979	767
	Efficiency		96	96	95	93	92	90	88	85	82	78	70	63
	Overhung Load (lbf)**		1247	1257	1411	1370	1381	1397	1355	1384	1419	1457	1564	1573
S30	Input HP		10.87	8.59	7.11	5.07	3.95	3.24	2.67	2.08	1.72	1.34	0.71	0.48
	Output Torque (lbf.-in.)		1886	2232	2448	2578	2645	2676	2586	2617	2643	2367	1478	1160
	Efficiency		96	96	96	94	93	92	90	87	85	82	73	67
	Overhung Load (lbf)**		1355	1454	1632	1832	1987	2003	1945	1986	2033	2104	2179	2179
1160 INPUT SPEED														
S17	Output RPM		232	155	116	77	58	46	39	29	23	19	15	12
	Input HP		2.16	1.58	1.24	0.78	0.67	0.47	0.48	0.39	0.28	0.19	0.16	0.11
	Output Torque (lbf.-in.)		562	610	632	571	645	554	660	676	564	435	311	236
	Efficiency		96	95	93	90	88	86	84	80	75	72	64	59
S20	HP		2.85	2.18	1.68	1.06	0.91	0.73	0.86	0.51	0.56	0.41	0.22	0.16
	Output Torque (lbf.-in.)		743	849	863	788	891	865	788	920	791	656	437	355
	Efficiency		96	95	94	91	90	88	85	82	79	74	67	61
	Overhung Load (lbf)**		1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164
S24	Input HP		4.81	3.64	2.55	1.81	1.60	1.05	0.94	0.73	0.63	0.46	0.29	0.20
	Output Torque (lbf.-in.)		1263	1431	1321	1376	1611	1280	1350	1333	1421	1138	837	654
	Efficiency		97	96	95	93	93	89	88	85	83	77	67	60
	Overhung Load (lbf)**		1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177
S26	HP		5.96	4.67	3.41	2.41	1.76	1.43	1.28	1.06	0.84	0.60	0.37	0.25
	Output Torque (lbf.-in.)		1567	1836	1770	1847	1764	1762	1864	2028	1932	1562	1126	880
	Efficiency		97	97	96	94	92	91	89	88	85	80	69	64
	Overhung Load (lbf)**		1247	1257	1411	1370	1381	1397	1355	1384	1419	1457	1564	1573
S30	Input HP		8.75	7.11	5.31	3.35	2.70	2.19	1.95	1.59	1.29	0.88	0.54	0.37
	Output Torque (lbf.-in.)		2303	2802	2768	2580	2745	2749	2891	3101	3057	2381	1735	1356
	Efficiency		97	97	96	94	93	92	91	90	87	83	74	67
	Overhung Load (lbf)**		1355	1454	1632	1832	1987	2003	1945	1986	2033	2104	2179	2179

¹Nominal Ratio. Reference SE Encore Series Catalog for exact ratio.

*For thermal ratings below 1750 RPM input speed, please contact Winsmith.

**Overhung load is given at a distance equal to one shaft diameter from the face of the output seal

RATINGS SUMMARY

Size	Ratio	5	7.5	10	15	20	25	30	40	50	60	80	100
	Output RPM	174	116	87	58	44	35	29	22	17	15	11	9
S17	Input HP	1.78	1.27	0.93	0.58	0.50	0.36	0.36	0.30	0.21	0.15	0.10	0.06
	Output Torque (lbf.-in.)	619	656	635	571	647	555	660	716	565	459	364	268
	Efficiency	96	95	94	91	89	85	84	82	75	71	63	59
	Overhung Load (lbf.)**	438	438	438	438	438	438	438	438	438	438	438	438
S20	HP	2.38	1.82	1.25	0.79	0.68	0.54	0.53	0.41	0.31	0.21	0.13	0.09
	Output Torque (lbf.-in.)	830	950	858	792	890	871	1016	995	887	664	513	415
	Efficiency	96	96	95	92	91	89	88	84	80	74	67	62
	Overhung Load (lbf.)**	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164
S24	Input HP	3.97	3.01	1.91	1.36	1.20	0.78	0.71	0.54	0.48	0.34	0.23	0.16
	Output Torque (lbf.-in.)	1394	1581	1321	1381	1613	1276	1359	1336	1417	1144	892	696
	Efficiency	97	97	95	94	93	90	88	85	82	78	68	61
	Overhung Load (lbf.)**	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177
S26	HP	4.99	3.92	2.57	1.80	1.31	1.07	0.95	0.81	0.63	0.45	0.29	0.20
	Output Torque (lbf.-in.)	1756	2066	1782	1849	1762	1769	1858	2028	1924	1569	1206	941
	Efficiency	97	97	96	94	93	91	90	87	84	81	72	64
	Overhung Load (lbf.)**	1247	1257	1411	1370	1381	1397	1355	1384	1419	1457	1564	1573
S30	Input HP	7.35	5.90	3.97	2.53	2.03	1.65	1.46	1.23	0.99	0.67	0.43	0.30
	Output Torque (lbf.-in.)	2583	3109	2761	2595	2752	2768	2894	3137	3059	2395	1876	1465
	Efficiency	97	97	96	94	94	93	91	88	85	83	76	67
	Overhung Load (lbf.)**	1355	1454	1632	1832	1987	2003	1945	1986	2033	2104	2179	2179

Size	Ratio	5	7.5	10	15	20	25	30	40	50	60	80	100
	Output RPM	120	80	60	40	30	24	20	15	12	10	8	6
S17	Input HP	1.34	0.89	0.64	0.39	0.34	0.25	0.25	0.21	0.14	0.11	0.07	0.04
	Output Torque (lbf.-in.)	678	668	638	566	645	558	657	716	568	482	382	279
	Efficiency	97	96	94	91	90	86	85	81	77	70	63	59
	Overhung Load (lbf.)**	438	438	438	438	438	438	438	438	438	438	438	438
S20	HP	1.88	1.36	0.86	0.55	0.46	0.37	0.40	0.29	0.21	0.15	0.09	0.07
	Output Torque (lbf.-in.)	956	1035	858	796	890	875	1084	993	891	701	538	435
	Efficiency	97	96	95	92	91	89	86	83	80	74	67	62
	Overhung Load (lbf.)**	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164
S24	Input HP	3.03	1.12	1.31	0.94	0.76	0.56	0.51	0.38	0.34	0.24	0.16	0.12
	Output Torque (lbf.-in.)	1544	1689	1316	1383	1464	1311	1380	1325	1411	1168	947	738
	Efficiency	97	96	95	94	92	90	86	83	80	77	71	61
	Overhung Load (lbf.)**	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177
S26	HP	3.91	3.08	1.81	1.24	0.93	0.74	0.68	0.57	0.45	0.32	0.21	0.15
	Output Torque (lbf.-in.)	1994	2356	1821	1843	1810	1774	1881	2022	1926	1587	1285	1001
	Efficiency	97	97	96	94	93	91	88	84	82	79	74	65
	Overhung Load (lbf.)**	1247	1257	1411	1370	1381	1397	1355	1384	1419	1457	1564	1573
S30	Input HP	3.39	4.69	2.77	1.92	1.44	1.15	1.05	0.87	0.70	0.49	0.32	0.22
	Output Torque (lbf.-in.)	3395	3575	2779	2851	2831	2780	2936	3133	3047	2490	2019	1573
	Efficiency	95	97	95	94	93	92	89	85	83	80	76	70
	Overhung Load (lbf.)**	1355	1454	1632	1832	1987	2003	1945	1986	2033	2104	2179	2179

Size	Ratio	5	7.5	10	15	20	25	30	40	50	60	80	100
	Output RPM	120	80	60	40	30	24	20	15	12	10	8	6
S17	Input HP	0.74	0.44	0.32	0.20	0.17	0.13	0.13	0.11	0.07	0.06	0.04	0.02
	Output Torque (lbf.-in.)	749	666	627	580	644	566	658	719	567	509	403	292
	Efficiency	97	96	94	91	89	86	83	79	76	73	63	59
	Overhung Load (lbf.)**	438	438	438	438	438	438	438	438	438	438	438	438
S20	HP	1.09	0.72	0.43	0.29	0.24	0.19	0.21	0.15	0.11	0.08	0.05	0.04
	Output Torque (lbf.-in.)	1111	1088	859	855	891	876	1083	993	891	745	568	459
	Efficiency	97	96	95	92	90	88	84	80	78	75	67	62
	Overhung Load (lbf.)**	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164	1164
S24	Input HP	1.73	1.12	0.68	0.50	0.39	0.31	0.28	0.21	0.17	0.13	0.08	0.06
	Output Torque (lbf.-in.)	1754	1689	1353	1461	1467	1412	1498	1430	1422	1252	988	788
	Efficiency	97	96	95	92	90	88	84	81	78	75	70	64
	Overhung Load (lbf.)**	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177	1177
S26	HP	2.30	1.68	0.95	0.68	0.52	0.41	0.38	0.29	0.23	0.18	0.11	0.08
	Output Torque (lbf.-in.)	2330	2546	1888	1999	1968	1920	2055	2019	1934	1710	1380	1073
	Efficiency	96	96	94	93	91	89	85	82	79	77	72	67
	Overhung Load (lbf.)**	1247	1257	1411	1370	1381	1397	1355	1384	1419	1457	1564	1573
S30	Input HP	3.39	2.80	1.51	1.09	0.81	0.65	0.60	0.45	0.36	0.28	0.17	0.12
	Output Torque (lbf.-in.)	3395	4192	2949	3166	3116	3042	3250	3132	3067	2712	2050	1696
	Efficiency	95	95	93	92	91	90	86	83	80	78	73	69
	Overhung Load (lbf.)**	1355	1454	1632	1832	1987	2003	1945	1986	2033	2104	2179	2179

¹Nominal Ratio. Reference SE Encore Series Catalog for exact ratio.

*For thermal ratings below 1750 RPM input speed, please contact Winsmith.

**Overhung load is given at a distance equal to one shaft diameter from the face of the output seal



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