

Vertical Motors

Horsepower: 1 through 600 HP

Phase: Single & Three Phase

RPM: 3600, 1800 or 1200

Voltage:

- Single Phase, 115/230 or 230 Volts
- Three Phase, 230/460 or 460 Volts
- International Duty, 220/380-440, 380-415 or 575 Volts

Efficiency:

- Premium Efficient
- Premium Efficient/Inverter Duty

Enclosure:

- Weather Protected Type I (WPI)
- Totally Enclosed, Fan Cooled (TEFC)

Mounting: P-Base

Thrust: Normal, High & Extra High

Thrust Bearing Lubrication:

- Normal Thrust - Grease
- High Thrust
 - WPI Up to 280 frame - Grease
 - TEFC Up to 360 frame - Grease
 - WPI 320 frame and larger - Oil
 - TEFC 400 frame and larger - Oil
- Extra High Thrust
 - WPI 320 frame and larger - Oil
 - TEFC Up to 360 frame - Grease

Guide Bearing Lubrication: Grease

Inverter Duty: Meets NEMA^{®†} MG1

Agency:

- UL^{®†} Recognized and CSA^{®†} Certified

For conversion and accessory options refer to pages 300 - 305.



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Single Phase Weather Protected Type I (WPI) Standard Efficient

APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

FEATURES:

- Class F Insulation
 - 1.15 Service Factor
 - Maximum 40°C Ambient, 3,300 Feet Altitude
 - Capacitor Start Design
- Corrosion Resistant Mill & Chemical Duty Paint
 - NRR = Non-Reverse Ratchet
 - **Discount Symbol: DS-7VS**



AUR,
AUC

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt (lbs)	Notes
3	1800	115/230	215P	HS3C2PLE	AUR	\$4,568	\$4,291	2500	10	17-9/16	1	1/4	220	-
5	3600	230	215P	HS5C1KLE	AUR	\$4,779	\$4,502	2200	10	17-9/16	1	1/4	220	-
	1800	230	254UP	HS5C2KLE	AUC	\$5,789	\$5,460	2500	10	23-3/8	1	1/4	265	-
7 1/2	3600	230	254UP	HS7C1KLE	AUC	\$6,817	\$6,488	2600	10	23-3/8	1	1/4	265	-
	1800	230	256UP	HS7C2KLE	AUC	\$7,831	\$7,455	3300	10	23-3/8	1	1/4	300	-



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient, SINEWAVE OPTIMIZED®

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- Class F Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- Premium Efficient Design
- Special Balance
- Corrosion Resistant Mill & Chemical Duty Paint
- 115 Volt Space Heater (through 250 HP)
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Refer to Page viii for Guidelines & Compatibility with VFD's
- Discount Symbol: DS-7VS



RUS

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	NEMA Nom. Eff.	Down Thrust (lbs)	Base Dia. (in)	Cplg. Height (in)	Cplg. BX (in)	Cplg. Key Size	Ship Wt. (lbs)	Notes
7 1/2	1800	230/460	213TP	HO7P2BLE	AUS	\$3,789	\$3,518	91.7	2500	10	18-1/8	1	1/4	210	
	1200	230/460	254TPH	HO7P3BLF	AUS	\$4,983	\$4,607	90.2	3800	12	23-3/8	1	1/4	265	
10	1800	230/460	215TP	HO10P2BLE	AUS	\$4,187	\$3,869	91.7	2500	10	18-1/8	1	1/4	220	
	1200	230/460	256TPH	HO10P3BLF	AUS	\$5,592	\$5,207	91.7	3800	12	23-3/8	1	1/4	300	
15	1800	230/460	254TP	HO15P2BLE	AUS	\$4,686	\$4,358	93.0	3300	10	23-3/8	1	1/4	265	
	1200	230/460	254TPA	HO15P2BLG	AUS	\$4,686	\$4,358	93.0	3300	16.5	23-3/8	1	1/4	265	
	1200	230/460	284TPA	HO15P3BLF	AUS	\$6,548	\$6,137	91.7	3800	12	24-3/4	1	1/4	305	
20	3600	230/460	254TPH	HO20P1BLF	AUS	\$4,708	\$4,061	91.0	2600	12	23-3/8	1	1/4	265	
	1800	230/460	256TPH	HO20P2BLF	AUS	\$5,122	\$4,763	93.0	3300	12	24-3/4	1	1/4	300	
	1800	230/460	256TPA	HO20P2BLG	AUS	\$5,122	\$4,763	93.0	3300	16.5	24-3/4	1	1/4	300	
	1200	230/460	286TPH	HO20P3BLG	AUS	\$7,307	\$6,838	92.4	3800	16.5	25-7/8	1	1/4	325	
25	3600	230/460	256TPH	HO25P1BLF	AUS	\$5,015	\$4,368	91.7	2600	12	23-3/8	1	1/4	300	
	1800	230/460	284TPA	HO25P2BLF	AUS	\$5,778	\$5,374	93.6	3300	12	24-3/4	1	1/4	305	
	1800	230/460	284TPH	HO25P2BLG	AUS	\$5,778	\$5,374	93.6	3300	16.5	24-3/4	1	1/4	305	
	1200	230/460	324TP	HO25P3BLG	RUS	\$8,923	\$8,383	93.0	6700	16.5	28-7/32	1	1/4	635	
30	3600	230/460	284TPA	HO30P1BLF	AUS	\$5,369	\$4,698	91.7	2600	12	24-3/4	1	1/4	305	
	1800	230/460	286TPH	HO30P2BLF	AUS	\$6,277	\$5,838	94.1	3300	12	24-3/4	1	1/4	325	
	1800	230/460	286TPH	HO30P2BLG	AUS	\$6,277	\$5,838	94.1	3300	16.5	24-3/4	1	1/4	325	
	1200	230/460	326TP	HO30P3BLG	RUS	\$9,916	\$9,296	93.6	6700	16.5	28-7/32	1-1/4	3/8	675	
40	3600	230/460	286TPA	HO40P1BLF	AUS	\$5,927	\$5,228	92.4	2600	12	24-3/4	1	1/4	325	
	1800	230/460	324TPH	HO40P2BLF	RUS	\$7,017	\$6,526	94.5	5700	12	28-7/32	1-1/4	1/4	635	
	1800	230/460	324TP	HO40P2BLG	RUS	\$7,017	\$6,526	94.5	5700	16.5	28-7/32	1-1/4	1/4	635	
	1200	230/460	364TP	HO40P3BLGX	RUS	\$12,880	\$12,124	94.1	11725	16.5	31-5/32	1-1/4	3/8	730	
50	3600	230/460	324TPH	HO50P1BLF	RUS	\$8,571	\$8,036	93.0	4600	12	28-7/32	1	1/4	635	
	1800	230/460	326TPH	HO50P2BLF	RUS	\$8,182	\$7,609	94.5	5700	12	28-7/32	1-1/4	1/4	675	
	1800	230/460	326TP	HO50P2BLG	RUS	\$8,182	\$7,609	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	
	1200	460	326TP	HO50P2SLG	RUS	\$8,182	\$7,609	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	PWS
60	1200	230/460	365TP	HO50P3BLGX	RUS	\$15,609	\$14,271	94.1	11725	16.5	31-5/32	1-1/4	3/8	800	
	3600	460	326TP	HO60P1SLG	RUS	\$9,841	\$9,203	93.6	4600	16.5	28-7/32	1-1/4	1/4	675	PWS
	1800	230/460	364TP	HO60P2BLG	RUS	\$9,528	\$8,861	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	
	1800	460	364TP	HO60P2SLG	RUS	\$9,528	\$8,861	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	PWS
75	1200	460	404TP	HO60P3SLGX	RUS	\$17,329	\$16,310	94.5	13650	16.5	36-15/16	1-1/2	3/8	1110	PWS
	3600	460	364TP	HO75P1SLG	RUS	\$11,167	\$10,374	93.6	4500	16.5	31-5/32	1-1/4	1/4	730	PWS
	1800	230/460	365TP	HO75P2BLG	RUS	\$11,327	\$10,534	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	
	1800	460	365TP	HO75P2SLG	RUS	\$11,327	\$10,534	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	PWS
100	1200	460	405TP	HO75P3SLGX	RUS	\$19,641	\$18,444	94.5	13650	16.5	36-15/16	1-1/2	3/8	1200	PWS
	3600	460	365TP	HO100P1SLG	RUS	\$15,284	\$14,209	93.6	4500	16.5	31-5/32	1-1/4	3/8	800	PWS
	1800	230/460	404TP	HO100P2BLG	RUS	\$14,376	\$13,370	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	
	1800	460	404TP	HO100P2SLG	RUS	\$14,376	\$13,370	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	PWS
125	1800	460	404TP	HO100P2SLGX	RUS	\$14,858	\$13,818	95.4	11725	16.5	36-15/16	1-1/2	3/8	1110	PWS
	1800	460	405TP	HO125P2SLG	RUS	\$17,769	\$16,330	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	PWS
150	1800	460	405TP	HO125P2SLGX	RUS	\$18,387	\$16,959	95.4	11725	16.5	36-15/16	1-1/2	3/8	1200	PWS
	1800	460	H444TP	HO150P2SLG	RUS	\$22,955	\$21,655	95.8	9800	16.5	44-25/32	1-11/16	3/8	1500	PWS
	1800	460	H444TP	HO150P2SLGX	RUS	\$23,466	\$22,166	95.8	17150	16.5	44-25/32	1-11/16	3/8	1500	PWS
	1800	460	H444TPA	HO150P2SLH	RUS	\$22,955	\$21,655	95.8	9800	20	44-25/32	1-11/16	3/8	1500	PWS
200	1800	460	H445TP	HO200P2SLG	RUS	\$28,995	\$26,935	95.8	9800	16.5	44-25/32	1-11/16	3/8	1600	PWS
	1800	460	H445TPA	HO200P2SLHX	RUS	\$29,974	\$27,933	95.8	17150	20	44-25/32	1-11/16	3/8	1600	PWS
250	1800	460	H445TPA	HO250P2SLHX	RUS	\$37,811	\$36,127	95.8	17150	20	44-25/32	1-11/16	3/8	1600	PWS
300	1800	460	447TPA	HO300P2SLHX	RUS	\$43,899	\$42,351	95.8	17150	20	49-25/32	1-11/16	3/8	2100	PWS
350	1800	460	447TPA	HO350P2SLHX	RUS	\$49,277	\$47,771	95.8	17150	20	49-25/32	1-11/16	3/8	2100	PWS
400	1800	460	449TPH	HO400P2SLHX	RUS	\$55,213	\$53,725	95.8	28500	20	49-13/16	1-15/16	1/2	2900	52,53,PWS
450	1800	460	449TPH	HO450P2SLHX	RUS	\$58,702	\$57,235	96.2	28500	20	49-13/16	1-15/16	1/2	2900	52,53,PWS
500	1800	460	449TPH	HO500P2SFLHX	RUS	\$62,906	\$61,439	96.2	28500	20	49-13/16	2-3/16	1/2	2900	52,53,PWS
	1800	460	5008PH	HO500P2SLHX	RUE	\$69,896	\$68,735	96.2	28500	20	57-1/16	2-3/16	1/2	4200	52,53,PWS
600	1800	460	5008P	HO600P2SFLJX	RUE	\$93,512	\$91,958	96.2	28500	24-1/2	57-1/16	2-3/16	1/2	4210	52,53,PWS
600	1800	460	5008P	HO600S2SLJX	RU	\$84,730	\$83,322	95.8	28500	24-1/2	57-1/16	2-3/16	1/2	4210	52,53,PWS,NNP,LA

Note 52 Requires minimal external thrust equal to 30% down thrust value shown
 Note 53 Synthetic Oil required
 Note LA Limited Availability

Note NNP Non-NEMA® Premium Rating
 Note PWS Part Winding Start



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient & Inverter Duty



APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

FEATURES:

- Class F Insulation, Class B Rise at Full Load (Sine Wave Power)
- 1.15 Service Factor (Sine Wave Power)
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor (230/460 Volt Ratings Only)
- Premium Efficient Design
- Special Balance
- 115 Volt Space Heater (through 250 HP)
- Normally Closed Thermostats (1 per Phase)
- Corrosion Resistant Mill & Chemical Duty Paint
- Inverter Duty per NEMA® MG-1 Part 31 at 1.0 Service Factor
- Shaft Grounding Ring
- Upper Insulated Bearing 400 Frame & Up
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- A member of the ACCU-SERIES® family of variable speed products
- **Discount Symbol: DS-7VS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
15	1800	230/460	254TP	HO15V2BLE	AUSI	\$5,226	\$4,897	93.0	3300	10	23-3/8	1	1/4	265	51,97,D
	1800	575	254TP	HO15V2GLE	AUSI	\$5,226	\$4,897	93.0	3300	10	23-3/8	1	1/4	265	51,97,D
20	1800	230/460	256TPH	HO20V2BLF	AUSI	\$5,728	\$5,352	93.0	3300	12	24-3/4	1	1/4	300	51,97,D
	1800	230/460	256TPA	HO20V2BLG	AUSI	\$5,728	\$5,352	93.0	3300	16.5	24-3/4	1	1/4	300	51,97,D
	1800	575	256TP	HO20V2GLE	AUSI	\$5,728	\$5,352	93.0	3300	10	24-3/4	1	1/4	300	51,97,D
25	1800	230/460	284TPA	HO25V2BLF	AUSI	\$6,456	\$6,038	93.6	3300	12	24-3/4	1	1/4	305	51,97,D
	1800	230/460	284TPH	HO25V2BLG	AUSI	\$6,456	\$6,038	93.6	3300	16.5	24-3/4	1	1/4	305	51,97,D
	1800	575	284TP	HO25V2GLE	AUSI	\$6,456	\$6,038	93.6	3300	10	24-3/4	1	1/4	305	51,97,D
30	1800	230/460	286TPA	HO30V2BLF	AUSI	\$7,024	\$6,559	94.1	3300	12	24-3/4	1	1/4	325	51,97,D
	1800	230/460	286TPH	HO30V2BLG	AUSI	\$7,024	\$6,559	94.1	3300	16.5	24-3/4	1	1/4	325	51,97,D
	1800	575	286TP	HO30V2GLE	AUSI	\$7,024	\$6,559	94.1	3300	10	24-3/4	1	1/4	325	51,97,D
40	1800	230/460	324TPH	HO40V2BLF	RUSI	\$7,779	\$7,296	94.5	5700	12	28-7/32	1-1/4	1/4	635	51,97,D
	1800	230/460	324TP	HO40V2BLG	RUSI	\$7,779	\$7,296	94.5	5700	16.5	28-7/32	1-1/4	1/4	635	51,97,D
	1800	575	324TP	HO40V2GLG	RUSI	\$7,779	\$7,296	94.5	5700	16.5	28-7/32	1-1/4	1/4	635	51,97,D
50	1800	230/460	326TP	HO50V2BLG	RUSI	\$8,894	\$8,317	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	51,97,D
	1800	575	326TP	HO50V2GLG	RUSI	\$8,894	\$8,317	94.5	5700	16.5	28-7/32	1-1/4	1/4	675	51,97,D
60	1800	460	364TP	HO60V2SLG	RUSI	\$10,528	\$9,866	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	51,97,D,PWS
	1800	575	364TP	HO60V2GLG	RUSI	\$10,528	\$9,866	95.0	5700	16.5	31-5/32	1-1/4	1/4	730	51,97,D
75	1800	460	365TP	HO75V2SLG	RUSI	\$12,312	\$11,505	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	51,97,D,PWS
	1800	575	365TP	HO75V2GLG	RUSI	\$12,312	\$11,505	95.0	5700	16.5	31-5/32	1-1/4	1/4	800	51,97,D
100	1800	460	404TP	HO100V2SLG	RUSI	\$15,885	\$14,866	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	51,97,E,PWS
	1800	460	404TP	HO100V2SLGX	RUSI	\$16,418	\$15,399	95.4	11725	16.5	36-15/16	1-1/2	3/8	1110	51,97,E,PWS
	1800	575	404TP	HO100V2GLG	RUSI	\$15,885	\$14,866	95.4	6700	16.5	36-15/16	1-1/2	3/8	1110	51,97,E
125	1800	460	405TP	HO125V2SLG	RUSI	\$18,509	\$17,275	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	51,97,E,PWS
	1800	460	405TP	HO125V2SLGX	RUSI	\$19,153	\$17,919	95.4	11725	16.5	36-15/16	1-1/2	3/8	1200	51,97,E,PWS
	1800	575	405TP	HO125V2GLG	RUSI	\$18,509	\$17,275	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	51,97,E
150	1800	460	H444TP	HO150V2SLG	RUSI	\$24,562	\$23,262	95.8	9800	16.5	44-25/32	1-11/16	3/8	1500	51,97,E,PWS
	1800	460	H444TP	HO150V2SLGX	RUSI	\$25,109	\$23,809	95.8	17150	16.5	44-25/32	1-11/16	3/8	1500	51,97,E,PWS
	1800	575	H444TP	HO150V2GLG	RUSI	\$24,562	\$23,262	95.8	9800	16.5	44-25/32	1-11/16	3/8	1500	51,97,E
200	1800	460	H445TPA	HO200V2SLH	RUSI	\$31,516	\$29,746	95.8	9800	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	460	H445TPA	HO200V2SLHX	RUSI	\$32,580	\$30,810	95.8	17150	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	575	H445TP	HO200V2GLG	RUSI	\$31,516	\$29,746	95.8	9800	16.5	44-25/32	1-11/16	3/8	1600	51,97,E
250	1800	460	H445TPA	HO250V2SLH	RUSI	\$39,399	\$38,066	95.8	9800	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	460	H445TPA	HO250V2SLHX	RUSI	\$40,657	\$39,324	95.8	17150	20	44-25/32	1-11/16	3/8	1600	51,97,E,PWS
	1800	575	H445TP	HO250V2GLG	RUSI	\$39,399	\$38,066	95.8	9800	16.5	44-25/32	1-11/16	3/8	1600	51,97,E
300	1800	460	447TPA	HO300V2SLH	RUSI	\$45,704	\$44,458	95.8	9800	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	460	447TPA	HO300V2SLHX	RUSI	\$47,203	\$45,957	95.8	17150	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	575	447TP	HO300V2GLG	RUSI	\$45,704	\$44,458	95.8	9800	16.5	49-25/32	1-11/16	3/8	2100	51,97,E



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) Premium Efficient & Inverter Duty

(continued)

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
350	1800	460	447TPA	HO350V2SLH	RUSI	\$50,683	\$49,437	95.8	9800	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	460	447TPA	HO350V2SLHX	RUSI	\$52,422	\$51,176	95.8	17150	20	49-25/32	1-11/16	3/8	2100	51,97,E,PWS
	1800	575	447TP	HO350V2GLG	RUSI	\$50,683	\$49,437	95.8	9800	16.5	49-25/32	1-11/16	3/8	2100	51,97,E
400	1800	460	449TPH	HO400V2SLH	RUSI	\$57,514	\$56,268	96.2	9500	20	49-13/16	1-15/16	1/2	2900	51,97,E,PWS
	1800	460	449TPH	HO400V2SLHX	RUSI	\$61,734	\$60,488	96.2	28500	20	49-13/16	1-15/16	1/2	2900	V10,PWS
	1800	575	449TP	HO400V2GLJ	RUSI	\$57,514	\$56,268	95.8	9500	24.5	49-13/16	1-15/16	1/2	2900	51,97,E
450	1800	460	449TPH	HO450V2SLH	RUSI	\$61,148	\$59,871	96.2	9500	20	49-13/16	1-15/16	1/2	2900	51,97,E,PWS
	1800	460	449TPH	HO450V2SLHX	RUSI	\$65,638	\$64,361	96.2	28500	20	49-13/16	1-15/16	1/2	2900	V10,PWS
500	1800	460	449TPH	HO500V2SFLH	RUSI	\$66,218	\$64,941	96.2	9500	20	49-13/16	2-3/16	1/2	2900	52,53,PWS
	1800	460	449TPH	HO500V2SFLHX	RUSI	\$71,060	\$69,783	96.2	28500	20	49-13/16	2-3/16	1/2	2900	52,53,PWS
	1800	460	5008PH	HO500V2SLH	RUEI	\$73,575	\$71,736	96.2	9500	20	57-1/16	2-3/16	1/2	4200	51,97,E,PWS
	1800	460	5008PH	HO500V2SLHX	RUEI	\$78,955	\$77,116	96.2	28500	20	57-1/16	2-3/16	1/2	4200	V10,PWS
600	1800	460	5008P	HO600V2SFLJX	RUEI	\$99,481	\$97,530	96.2	28500	24.5	57-1/16	2-3/16	1/2	4210	V10,PWS

Note 51 Equipped with Winding Thermostat
 Note 97 Inverter Duty with Inverter Grade Insulation
 Note D Includes internal shaft grounding ring
 Note E Includes internal shaft grounding ring and upper insulated bearing

Note PWS Part Winding Start
 Note V10 Equipped with Winding thermostat, Requires minimal external thrust equal to 30% down thrust for values showed, Synthetic Oil required, Inverter Duty with Inverter Grade insulation, and Includes internal shaft grounding ring and upper insulated bearing



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Weather Protected Type I (WPI) International Duty

APPLICATIONS:

For use on Turbine, Mix Flow and Propeller Pumps

FEATURES:

- Class F Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 50°C Ambient, 3,300 Feet Altitude
- 60Hz Premium Efficient (IE3) Design
- 50Hz Energy Efficient (IE2) Design
- NEMA® Design B
- Drive End Shaft Slinger
- 230 Volt Space Heater
- Stainless Steel Nameplate
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Refer to Page ii-iv for Guidelines & Compatibility with VFD's
- Discount Symbol: DS-7VS

60 Hz, 220/380-440 Volt, 12 Lead Wye-Delta

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
50	1800	220/380-440	326TP	HO50P2RLG	RUS	\$9,000	\$8,423	94.5	5700	16.5	28-7/32	1-3/16	1/4	675	53
60	1800	220/380-440	364TP	HO60P2RLG	RUS	\$10,480	\$9,818	95.0	5700	16.5	31-5/32	1-3/16	1/4	730	53
75	1800	220/380-440	365TP	HO75P2RLG	RUS	\$12,460	\$11,652	95.4	5700	16.5	31-5/32	1-3/16	1/4	800	14,53
100	1800	220/380-440	404TP	HO100P2RLG	RUS	\$15,814	\$14,795	95.4	6700	16.5	36-15/16	1-3/16	1/4	1110	53
125	1800	220/380-440	405TP	HO125P2RLG	RUS	\$19,546	\$18,311	95.4	6700	16.5	36-15/16	1-1/2	3/8	1200	53
150	1800	220/380-440	H444TP	HO150P2RLG	RUS	\$25,251	\$23,951	95.8	9800	16.5	44-25/32	1-1/2	3/8	1500	53
200	1800	220/380-440	H445TP	HO200P2RLG	RUS	\$31,851	\$30,504	96.2	9800	16.5	44-25/32	1-1/2	3/8	1600	53
250	1800	220/380-440	447TPA	HO250P2RGLH	RUS	\$45,419	\$43,938	96.2	9800	20	49-25/32	1-11/16	3/8	2100	53
300	1800	220/380-440	447TPA	HO300P2RLHX	RUS	\$48,289	\$46,730	96.2	9800	20	49-25/32	1-11/16	3/8	2100	53
350	1800	220/380-440	449TPH	HO350P2RGLHX	RUS	\$56,095	\$54,603	96.2	16625	20	49-26/32	1-15/16	1/2	2800	53

50 Hz, 380-415 Volt, 6 Lead Wye-Delta

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/NRR	List w/SRC	NEMA Nom. Eff.	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt. (lbs.)	Notes
50	1500	380-415	326TP	HO50E2TLG	RUE	\$9,282	\$8,733	92.7	5700	16.5	28-7/32	1-3/16	1/4	675	53
60	1500	380-415	364TP	HO60E2TLG	RUE	\$10,823	\$10,195	93.1	5700	16.5	31-5/32	1-3/16	1/4	675	53
75	1500	380-415	365TP	HO75E2TLG	RUE	\$14,170	\$13,202	93.5	5700	16.5	31-5/32	1-3/16	1/4	675	53
100	1500	380-415	404TP	HO100E2TLG	RUE	\$16,294	\$15,326	94.0	6700	16.5	36-15/16	1-3/16	1/4	1110	53
125	1500	380-415	405TP	HO125E2TLG	RUE	\$22,627	\$21,392	94.3	6700	16.5	36-15/16	1-1/2	3/8	1110	53
150	1500	380-415	H444TP	HO150E2TLG	RUE	\$26,046	\$24,811	94.5	9800	16.5	44-25/32	1-1/2	3/8	1500	53
200	1500	380-415	H445TP	HO200E2TLG	RUE	\$32,802	\$31,522	94.9	9800	16.5	44-25/32	1-1/2	3/8	1600	53
250	1500	380-415	447TPA	HO250P2TLH	RUE	\$51,127	\$49,568	95.1	9800	20	49-25/32	1-11/16	3/8	2100	53
300	1500	380-415	447TPA	HO300E2TLH	RUE	\$54,422	\$52,930	95.1	9800	20	49-25/32	1-11/16	3/8	2100	53
350	1500	380-415	447TPA	HO350E2TLH	RUE	\$57,861	\$56,369	95.1	9800	20	49-25/32	1-11/16	3/8	2800	53

NOTE: Alternative Coupling Sizes per Frame Size are listed on pages 264-266.
Most stock VHS Motors include a Non-Reverse Ratchet (NRR), as indicated by their Catalog Number. To order a motor with a Self-Release Coupling (SRC), add an "N" as the last character in the Catalog Number. Example: HO50S2BLG includes NRR; HO50S2BLGN is SRC.

Note 14 NEMA® Design A
Note 53 Synthetic Oil required



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Totally Enclosed Fan Cooled (TEFC) Premium Efficient, SINEWAVE OPTIMIZED®



APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

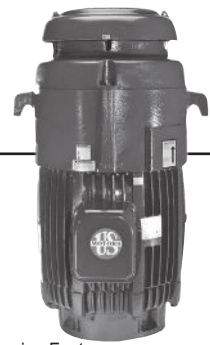
FEATURES:

- Class F Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230V PWS on 250-320 Frame
- 30 HP & Below Can Be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- Premium Efficient Design
- Special Balance
- 115 Volt Space Heater
- Corrosion Resistant Mill & Chemical Duty Paint
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- Refer to Page viii for Guidelines & Compatibility with VFD's
- **Discount Symbol: DS-7VS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	NEMA Nom. Eff	Down Thrust (lbs.)	Base Dia. (in.)	Cplg Height (in.)	Cplg BX (in.)	Cplg Key Size	Ship Wt (lbs)	Notes
5	3600	230/460	184TP	HT5P1BLE	TUS	\$3,666	\$3,333	88.5	2200	10	17-9/16	1	1/4	170	-
	1800	230/460	184TP	HT5P2BLE	TUS	\$3,443	\$3,110	90.2	2500	10	17-9/16	1	1/4	170	-
7 1/2	3600	230/460	213TP	HT7P1BLE	TUS	\$3,807	\$3,464	89.5	2200	10	18-13/16	1	1/4	210	-
	1800	230/460	213TP	HT7P2BLE	TUS	\$3,731	\$3,388	91.7	2500	10	18-13/16	1	1/4	210	-
10	3600	230/460	215TP	HT10P1BLE	TUS	\$4,137	\$3,785	90.2	2200	10	18-13/16	1	1/4	220	-
	1800	230/460	215TP	HT10P2BLE	TUS	\$4,052	\$3,700	91.7	2500	10	18-13/16	1	1/4	220	-
15	3600	230/460	215TP	HT15P1BLE	TUS	\$4,650	\$4,237	91.0	2200	10	18-13/16	1	1/4	220	-
	1800	230/460	254TP	HT15P2BLE	TUS	\$5,650	\$5,227	92.4	3300	10	22-15/16	1	1/4	265	-
20	1800	230/460	256TP	HT20P2BLE	TUS	\$6,290	\$5,802	93.0	3300	10	22-15/16	1	1/4	300	-
25	1800	230/460	284TPA	HT25P2BLF	TUS	\$7,096	\$6,551	93.6	3300	12	26-9/16	1	1/4	320	-
30	1800	230/460	286TPA	HT30P2BLF	TUS	\$7,819	\$7,209	93.6	3300	12	26-9/16	1	1/4	330	-
40	1800	230/460	324TP	HT40P2BLG	TUS	\$9,902	\$9,221	94.5	4500	16-1/2	28-1/2	1-1/4	1/4	665	-
50	1800	230/460	326TP	HT50P2BLG	TUS	\$11,426	\$10,618	94.5	4500	16-1/2	28-1/2	1-1/4	1/4	690	-
60	1800	460	364TP	HT60P2CLG	TUS	\$14,172	\$13,172	95.0	5600	16-1/2	30	1-1/4	1/4	900	-
75	1800	460	365TP	HT75P2CLG	TUS	\$16,778	\$15,567	95.4	5600	16-1/2	30	1-1/4	1/4	925	-
100	1800	460	405TP	HT100P2CLG	TUS	\$22,580	\$20,946	95.4	7000	16-1/2	39-15/16	1-1/2	3/8	1500	-
125	1800	460	444TP	HT125P2CLG	TUS	\$31,411	\$29,542	95.4	9300	16-1/2	42-1/2	1-1/2	3/8	1800	-
150	1800	460	447TP	HT150P2CLG	TUS	\$37,074	\$34,792	95.8	9300	16-1/2	46	1-1/2	3/8	2300	-
200	1800	460	447TP	HT200P2CLG	TUS	\$49,499	\$46,311	96.2	9300	16-1/2	46	1-11/16	3/8	2300	-
250	1800	460	449TP	HT250P2CLJX	JUE	\$58,355	\$57,003	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3600	-
300	1800	460	449TP	HT300P2CLJX	JUE	\$64,200	\$62,688	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3800	-



Vertical HOLLOSHAFT® High Thrust Motors - "P" Base, Three Phase Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY®, Premium Efficient, Inverter Duty



APPLICATIONS:

For use on turbine, mix flow and propeller pumps.

FEATURES:

- Class H Insulation, Class B Rise at Full Load
- 1.15 Service Factor
- Maximum 40°C Ambient, 3,300 Feet Altitude
- 230/460 Volt Motors Suitable for 230V PWS on 250-320 Frame
- Premium Efficient Design
- Special Balance
- 115 Volt Space Heater
- Normally Closed Thermostats (1 per Phase)
- CORRO-DUTY® - All Cast Iron Construction
- Inverter Duty per NEMA® MG-1 Part 31 at 1.0 Service Factor
- Shaft Grounding Ring
- Upper Insulated Bearing 400 Frame & Up
- NRR = Non-Reverse Ratchet, SRC = Self-Release Coupling
- A member of the ACCU-SERIES® family of variable speed products
- Discount Symbol: DS-7VS

HP	RPM	Voltage	Frame	Catalog Number	Type	List w/ NRR	List w/ SRC	NEMA Nom. Eff.	Down Thrust (lbs)	Base Dia. (in)	Cplg. Height (in)	Cplg. BX (in)	Cplg. Key Size	Ship Wt. (lbs)	Notes
5	3600	230/460	184TP	CHT5V1BLE	TUCI	\$3,893	\$3,560	88.5	2200	10	17-1/2	1	1/4	180	51,97,D
	3600	575	184TP	CHT5V1GLE	TUCI	\$3,893	\$3,560	88.5	2200	10	17-1/2	1	1/4	180	51,97,D
	1800	230/460	184TP	CHT5V2BLE	TUCI	\$3,654	\$3,321	89.5	2500	10	17-1/2	1	1/4	180	51,97,D
	1800	575	184TP	CHT5V2GLE	TUCI	\$3,654	\$3,321	89.5	2500	10	17-1/2	1	1/4	180	51,97,D
7 1/2	3600	230/460	213TP	CHT7V1BLE	TUCI	\$4,044	\$3,701	89.5	2200	10	17-1/2	1	1/4	220	51,97,D
	3600	575	213TP	CHT7V1GLE	TUCI	\$4,044	\$3,701	89.5	2200	10	17-1/2	1	1/4	220	51,97,D
	1800	230/460	213TP	CHT7V2BLE	TUCI	\$3,962	\$3,619	91.7	2500	10	17-1/2	1	1/4	220	51,97,D
	1800	575	213TP	CHT7V2GLE	TUCI	\$3,962	\$3,619	91.7	2500	10	17-1/2	1	1/4	220	51,97,D
10	3600	230/460	215TP	CHT10V1BLE	TUCI	\$4,398	\$4,046	90.2	2200	10	17-1/2	1	1/4	230	51,97,D
	3600	575	215TP	CHT10V1GLE	TUCI	\$4,398	\$4,046	90.2	2200	10	17-1/2	1	1/4	230	51,97,D
	1800	230/460	215TP	CHT10V2BLE	TUCI	\$4,307	\$3,955	91.7	2500	10	17-1/2	1	1/4	230	51,97,D
	1800	575	215TP	CHT10V2GLE	TUCI	\$4,307	\$3,955	91.7	2500	10	17-1/2	1	1/4	230	51,97,D
15	3600	230/460	254TP	CHT15V1BLE	TUCI	\$4,945	\$4,532	91.0	3300	10	22-15/16	1	1/4	395	51,97,D
	3600	575	254TP	CHT15V1GLE	TUCI	\$4,945	\$4,532	91.0	3300	10	22-15/16	1	1/4	395	51,97,D
	1800	230/460	254TP	CHT15V2BLE	TUCI	\$6,019	\$5,596	92.4	3300	10	22-15/16	1	1/4	395	51,97,D
	1800	575	254TP	CHT15V2GLE	TUCI	\$6,019	\$5,596	92.4	3300	10	22-15/16	1	1/4	395	51,97,D
20	1800	230/460	256TP	CHT20V2BLE	TUCI	\$6,703	\$6,215	93.0	3300	10	22-15/16	1	1/4	405	51,97,D
	1800	575	256TP	CHT20V2GLE	TUCI	\$6,703	\$6,215	93.0	3300	10	22-15/16	1	1/4	405	51,97,D
25	1800	230/460	284TPA	CHT25V2BLF	TUCI	\$7,565	\$7,020	93.6	3300	12	26-9/16	1	1/4	500	51,97,D
	1800	575	284TPA	CHT25V2GLF	TUCI	\$7,565	\$7,020	93.6	3300	12	26-9/16	1	1/4	500	51,97,D
30	1800	230/460	286TPA	CHT30V2BLF	TUCI	\$8,337	\$7,727	93.6	3300	12	26-9/16	1	1/4	520	51,97,D
	1800	575	286TPA	CHT30V2GLF	TUCI	\$8,337	\$7,727	93.6	3300	12	26-9/16	1	1/4	520	51,97,D
40	1800	230/460	324TP	CHT40V2BLG	TUCI	\$10,564	\$9,883	94.5	4500	16-1/2	28-1/2	1-1/2	3/8	740	51,97,D
	1800	575	324TP	CHT40V2GLG	TUCI	\$10,564	\$9,883	94.1	4500	16-1/2	28-1/2	1-1/2	3/8	740	51,97,D
50	1800	230/460	326TP	CHT50V2BLG	TUCI	\$12,194	\$11,386	94.5	4500	16-1/2	28-1/2	1-1/2	3/8	750	51,97,D
	1800	575	326TP	CHT50V2GLG	TUCI	\$12,194	\$11,386	94.5	4500	16-1/2	28-1/2	1-1/2	3/8	750	51,97,D
60	1800	460	364TP	CHT60V2CLG	TUCI	\$15,131	\$14,131	95.0	5600	16-1/2	30	1-1/4	1/4	925	51,97,D
	1800	575	364TP	CHT60V2GLG	TUCI	\$15,131	\$14,131	95.0	5600	16-1/2	30	1-1/4	1/4	925	51,97,D
75	1800	460	365TP	CHT75V2CLG	TUCI	\$17,917	\$16,706	95.4	5600	16-1/2	30	1-1/4	1/4	940	51,97,D
	1800	575	365TP	CHT75V2GLG	TUCI	\$17,917	\$16,706	95.4	5600	16-1/2	30	1-1/4	1/4	940	51,97,D
100	1800	460	405TP	CHT100V2CLG	TUCI	\$24,122	\$22,488	95.4	7000	16-1/2	39-15/16	1-1/2	3/8	1600	51,97,E
	1800	575	405TP	CHT100V2GLG	TUCI	\$24,122	\$22,488	95.4	7000	16-1/2	39-15/16	1-1/2	3/8	1600	51,97,E
125	1800	460	444TP	CHT125V2CLG	TUCI	\$33,598	\$31,729	95.4	9300	16-1/2	42-1/2	1-1/2	3/8	1900	51,97,E
	1800	575	444TP	CHT125V2GLG	TUCI	\$33,598	\$31,729	95.4	9300	16-1/2	42-1/2	1-1/2	3/8	1900	51,97,E
150	1800	460	447TP	CHT150V2CLG	TUCI	\$39,655	\$37,373	95.8	9300	16-1/2	46	1-1/2	3/8	2300	51,97,E
	1800	575	447TP	CHT150V2GLG	TUCI	\$39,655	\$37,373	95.8	9300	16-1/2	46	1-1/2	3/8	2300	51,97,E
200	1800	460	447TP	CHT200V2CLG	TUCI	\$52,944	\$49,756	96.2	9300	16-1/2	46	1-11/16	3/8	2300	51,97,E
	1800	575	447TP	CHT200V2GLG	TUCI	\$52,944	\$49,756	96.2	9300	16-1/2	46	1-11/16	3/8	2300	51,97,E
250	1800	460	449TP	CHT250V2CLJX	JUCEI	\$61,776	\$60,424	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3800	51,97,E
	1800	575	449TP	CHT250V2GLJX	JUCEI	\$61,776	\$60,424	96.2	15400	24-1/2	56-7/8	1-11/16	3/8	3800	51,97,E
300	1800	460	449TP	CHT300V2CLJX	JUCEI	\$67,994	\$66,482	96.2	15400	24-1/2	56-7/8	1-15/16	1/2	3900	51,97,E
	1800	575	449TP	CHT300V2GLJX	JUCEI	\$67,994	\$66,482	96.2	15400	24-1/2	56-7/8	1-15/16	1/2	3900	51,97,E

Note 51 Equipped with Winding Thermostat
 Note 97 Inverter Duty with Inverter Grade Insulation
 Note D Includes internal shaft grounding ring
 Note E Includes internal shaft grounding ring and upper insulated bearing



Vertical Solid Shaft Normal Thrust - "P" Base Three Phase, WPI, Premium Efficient

APPLICATIONS:

For use on vertical end suction, short couple pumps, centrifugal and non-clog pumps.

FEATURES:

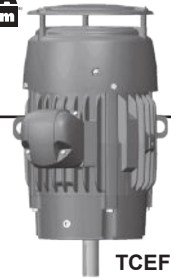
- Class F Insulation, Class B Rise at Full Load On 60Hz Sine Wave Power
- 1.15 Service Factor (Sine Wave)
- 40°C Ambient, NEMA[®] Design B Performance
- Corrosion Resistant Mill & Chemical Duty Paint
- 230/460 Volt Motors Suitable for 230 Volt Part Winding Start
- 30HP & Below can be Rerated for 208/415 Volt, 50 Hertz Operation at 1.0 Service Factor
- Refer to Page vii for Suitability of IHP Motors on Variable Frequency Drives
- **Discount Symbol: DS-7NS**

HP	RPM	Voltage	Frame	Catalog Number	Type	List	NEMA Nom. Eff.	Down Thrust (lbs)	Base Dia. (in)	Ship Wt. (lbs)	Notes
3	1800	230/460	182VP	NO3P2BE	AVS	\$1,716	89.5	390	10	150	-
5	1800	230/460	184VP	NO5P2BE	AVS	\$2,638	89.5	490	10	170	-
7 1/2	1800	230/460	213VP	NO7P2BE	AVS	\$3,070	91.0	560	10	210	-
10	1800	230/460	215VP	NO10P2BE	AVS	\$3,448	91.7	640	10	220	-
15	1800	230/460	254VP	NO15P2BE	AVS	\$3,966	93.0	640	10	265	-
20	1800	230/460	256VP	NO20P2BE	AVS	\$4,526	93.0	640	10	300	-
25	1800	230/460	284VPZ	NO25P2BE	AVS	\$4,851	93.6	640	10	305	-
30	1800	230/460	286VPZ	NO30P2BE	AVS	\$5,455	94.1	640	10	325	-
40	1800	230/460	324VP	NO40P2BG	RVS	\$5,793	94.1	640	16-1/2	635	-
50	1800	230/460	326VP	NO50P2BG	RVS	\$6,873	94.5	640	16-1/2	675	-
100	1800	230/460	404VPZ	NO100P2BG	RVS	\$11,700	95.4	720	16-1/2	1110	-
125	1800	230/460	405VPZ	NO125P2BG	RVS	\$14,134	95.4	720	16-1/2	1200	-



General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient, Vertical C-Face

NEMA
Premium



APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction (Steel Frame On 140 Frame)
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- Shaft Slinger On Both Ends For IP54 Protection
- Regreasable Bearings 140 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA®† Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 190/380V (140-250 Frame) or 380V (280 Frame & Larger)
- 1.15 Service Factor @ 60 Hz.
- Special Balance (< 0.08 In/Sec Vibration)
- Open Bearings 180-447 (Double Shielded Bearings on 140 Frame)
- Steel Canopy Cap/Drip Cover (Cast Iron on 140 Frame)
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA®† Standard
- Zinc Plated Hardware
- 208v will not be marked on DOE regulated spread-voltage motors. Refer to online data
- **Discount Symbol:** Catalog #s beginning with C is DS-3CE
Catalog #s beginning with CD are DS-3CEW

HP	RPM	Voltage	Frame	Catalog Number	List	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
1	3600	230/460	143TC	C1P1DCR	\$818	80.0	2.9-2.7/1.4	65	03,105
	1800	230/460	145TC	C1P2DCR	\$796	85.5	3.1-3/1.5	65	03,105
1 1/2	3600	230/460	143TC	C32P1DCR	\$891	84.0	4.2-3.9/2	65	03,105
	1800	230/460	145TC	C32P2DCR	\$866	86.5	4.5-4.3/2.1	65	03,105
2	3600	230/460	145TC	C2P1DCR	\$1,013	86.5	5.5-4.9/2.4	70	03,105
	1800	230/460	145TC	C2P2DCR	\$926	86.5	4-3.8/2	70	03,105
3	3600	230/460	182TC	C3P1DCR	\$1,122	87.5	8.4-7.8/3.9	100	03,105
	1800	230/460	182TC	C3P2DCR	\$1,021	89.5	8.4-7.8/3.9	100	03,105
5	3600	230/460	184TC	C5P1DCR	\$1,342	88.5	13.4-12.2/6.1	110	03,105
	1800	230/460	184TC	C5P2DCR	\$1,145	89.5	13.7-12.5/6.3	110	03,105
7 1/2	3600	230/460	213TC	C7P1DCR	\$1,665	91.0	19.9-17.8/8.9	160	03,105
	1800	230/460	213TC	C7P2DCR	\$1,536	91.7	20.1-18.6/9.3	160	03,105
10	3600	230/460	215TC	C10P1DCR	\$1,896	91.0	26.4-23.5/11.8	175	03,105
	1800	230/460	215TC	C10P2DCR	\$1,789	91.7	26.5-23.9/12	175	03,105
15	3600	230/460	254TC	C15P1DCR	\$2,617	91.0	40-35/17.5	300	03,105
	1800	230/460	254TC	C15P2DCR	\$2,396	92.4	40-37/18.4	300	03,105
20	3600	230/460	256TC	C20P1DCR	\$3,141	91.0	53-46/23.1	340	03,105
	1800	230/460	256TC	C20P2DCR	\$2,856	93.0	52-47-23.5	340	03,105
25	3600	230/460	284TSC	CD25P1ESCR	\$3,207	91.7	58.0/28.8	320	105,G
	1800	230/460	284TC	CD25P2ECR	\$3,124	93.6	58.0/29.1	350	105,G
	1800	230/460	284TSC	CD25P2ESCR	\$3,124	93.6	58.0/29.1	350	105,G
30	3600	230/460	286TSC	CD30P1ESCR	\$3,715	91.7	69.0/35.0	320	105,G
	1800	230/460	286TC	CD30P2ECR	\$3,585	93.6	70.0/35.0	360	105,G
	1800	230/460	286TSC	CD30P2ESCR	\$3,585	93.6	70.0/35.0	360	105,G
40	3600	460	324TSC	C40P1FSCR	\$5,824	92.4	46	600	03
	1800	460	324TC	C40P2FCR	\$5,234	94.1	46	600	03
	1800	460	324TSC	C40P2FSCR	\$5,234	94.1	46	600	03
50	3600	460	326TSC	C50P1FSCR	\$7,235	93.0	56	625	03
	1800	460	326TC	C50P2FCR	\$6,221	94.5	56	625	03
	1800	460	326TSC	C50P2FSCR	\$6,221	94.5	56	625	03
60	3600	460	364TSC	C60P1FSCR	\$9,632	93.6	68	750	03
	1800	460	364TC	C60P2FCR	\$8,912	95.0	69	750	03
	1800	460	364TSC	C60P2FSCR	\$8,912	95.0	69	750	03

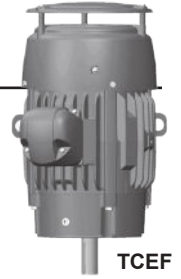
Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz; 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 105 208 Volt Suitable

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz; 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate



General Purpose Three Phase, Totally Enclosed Fan Cooled (TEFC) CORRO-DUTY® NEMA®† Premium Efficient, Vertical C-Face

NEMA
Premium


(continued)

HP	RPM	Voltage	Frame	Catalog Number	List	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
75	3600	460	365TSC	C75P1FSCR	\$11,801	93.6	83	910	03
	1800	460	365TC	C75P2FCR	\$11,015	95.4	84	910	03
	1800	460	365TSC	C75P2FSCR	\$11,015	95.4	84	910	03
100	3600	460	405TSC	C100P1FSCR	\$16,042	94.1	112	1300	03
	1800	460	405TC	C100P2FCR	\$14,022	95.4	113	1300	03
	1800	460	405TSC	C100P2FSCR	\$14,022	95.4	113	1300	03
125	3600	460	444TSC	C125P1FSCR	\$19,461	95.0	144	1660	03,12
	1800	460	444TC	C125P2FCR	\$16,896	95.4	147	1660	03
	1800	460	444TSC	C125P2FSCR	\$16,896	95.4	147	1660	03
150	3600	460	445TSC	C150P1FSCR	\$23,468	95.0	176	1750	03,12
	1800	460	445TC	C150P2FCR	\$19,664	95.8	171	1750	03
	1800	460	445TSC	C150P2FSCR	\$19,664	95.8	171	1750	03
200	3600	460	447TSC	C200P1FSCR	\$29,321	95.4	220	2100	03,12
	1800	460	447TC	C200P2FCR	\$23,716	96.2	224	2100	03
	1800	460	447TSC	C200P2FSCR	\$23,716	96.2	224	2100	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note 12 Unidirectional Fan – CCW direction facing opposite drive end (FODE)



Vertical Solid Shaft Normal Thrust - "P" Base Three Phase Totally Enclosed Fan Cooled (TEFC), CORRO-DUTY® NEMA® Premium Efficient

NEMA
Premium


TVCS

APPLICATIONS:

For pulp & paper, mill & chemical and any other severe duty environments found in the process industries.

FEATURES:

- Class F Insulation, Class B Rise At Full Load On 60 Hertz Sine Wave Power
- All Cast Iron Construction
- Corrosion Resistant Mill & Chemical Duty Paint
- Stainless Steel Nameplate
- Shaft Slinger On Both Ends For IP54 Protection
- Type HP Shaft And Shaft/Flange Tolerances per NEMA® MG1-18.252
- Regreasable Bearings 180 Frame & Up, Lifting Provisions 180 Frame & Up
- 40°C Ambient, NEMA® Design B Performance On 60 Hertz Sine Wave Power
- 50 Hz. rated at 200/400V (140-280 Frame) or 380V (320 Frame & Larger)
- Special Balance (< 0.08 In/Sec Vibration)
- Upper Thrust Bearing Open Bearings 180-447
- Steel Canopy Cap/Drip Cover
- Cast Iron Inner Bearing Caps (180 Frame & Larger)
- Condensation Drain With Threaded Brass Breather Plug
- Oversized Cast Iron Conduit Box - 1 Size Larger Than NEMA® Standard
- Zinc Plated Hardware
- **Discount Symbol: DS-7CE**

HP	RPM	Voltage	Frame	Catalog Number	List	Down Thrust (lbs)	Base Dia. (In)	NEMA Nom. Eff.	Full Load Amps	Ship Wt. (lbs.)	Notes
3	3600	230/460	182HP	CNT3P1EE	\$1,459	350	10	86.5	8.2/4.1	110	G
	1800	230/460	182HP	CNT3P2EE	\$1,327	420	10	89.5	7.7/3.9	130	G
5	3600	230/460	184HP	CNT5P1EE	\$1,745	350	10	88.5	12.3/6.1	120	G
	1800	230/460	184HP	CNT5P2EE	\$1,489	420	10	89.5	12.7/6.3	130	G
7 1/2	3600	230/460	213HP	CNT7P1EE	\$2,165	520	10	89.5	18.5/9.2	170	G
	1800	230/460	213HP	CNT7P2EE	\$1,997	640	10	91.7	19.3/9.6	200	G
	1800	230/460	213HP	CNT7P2DE	\$1,997	635	10	91.7	18.5/9.3	220	03, LA
10	3600	230/460	215HP	CNT10P1EE	\$2,465	520	10	90.2	23.6/11.8	190	G
	1800	230/460	215HP	CNT10P2EE	\$2,326	640	10	91.7	25.7/12.8	210	G
	1800	230/460	215HP	CNT10P2DE	\$2,326	635	10	91.7	23.9/12.0	230	03, LA
15	3600	230/460	254HP	CNT15P1EE	\$3,140	900	10	91.0	35.0/17.5	260	G
	1800	230/460	254HP	CNT15P2EE	\$2,875	1110	10	92.4	36.0/18.0	290	G
20	3600	230/460	256HP	CNT20P1EE	\$3,770	900	10	91.0	46.0/22.9	300	G
	1800	230/460	256HP	CNT20P2EE	\$3,427	1110	10	93.0	47.0/23.7	320	G
25	3600	230/460	284HP	CNT25P1EE	\$4,696	1050	10	91.7	58.0/28.8	380	G
	1800	230/460	284HP	CNT25P2EE	\$4,212	1380	10	93.6	58.0/29.2	400	G
30	3600	230/460	286HP	CNT30P1EE	\$5,369	1050	10	91.7	69.0/35.0	380	G
	1800	230/460	286HP	CNT30P2EE	\$4,780	1380	10	93.6	70.0/35.0	420	G
40	3600	460	324HP	CNT40P1FG	\$6,698	1090	16-1/2	92.4	46	740	03
	1800	460	324HP	CNT40P2FG	\$6,020	1395	16-1/2	94.1	46	740	03
50	3600	460	326HP	CNT50P1FG	\$8,320	1090	16-1/2	93.0	56	750	03
	1800	460	326HP	CNT50P2FG	\$7,154	1395	16-1/2	94.5	56	750	03
60	3600	460	364HP	CNT60P1FG	\$11,077	1360	16-1/2	93.6	68	925	03
	1800	460	364HP	CNT60P2FG	\$10,294	1800	16-1/2	95.0	69	925	03
75	3600	460	365HP	CNT75P1FG	\$13,571	1360	16-1/2	93.6	83	940	03
	1800	460	365HP	CNT75P2FG	\$12,667	1800	16-1/2	95.4	84	940	03
100	3600	460	405HP	CNT100P1FG	\$18,448	1825	16-1/2	94.5	112	1600	03
	1800	460	405HP	CNT100P2FG	\$16,125	2300	16-1/2	95.4	113	1600	03
125	3600	460	444HP	CNT125P1FG	\$22,380	1210	16-1/2	95.8	142	1900	03
	1800	460	444HP	CNT125P2FG	\$19,430	1530	16-1/2	95.4	147	1900	03
150	3600	460	445HP	CNT150P1FG	\$26,988	1210	16-1/2	95.8	171	2000	03
	1800	460	445HP	CNT150P2FG	\$22,614	1530	16-1/2	95.8	171	2000	03
200	3600	460	447HP	CNT200P1FG	\$33,720	1210	16-1/2	96.2	217	2300	03
	1800	460	447HP	CNT200P2FG	\$27,273	1530	16-1/2	96.2	224	2300	03

Note 03 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 190/380 volt 50 Hz, 460V 60 Hz ratings operate on 380V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note G 60/50 Hz rated with no derate on HP; 230/460 volt 60 Hz ratings operate on 200/400 volt 50 Hz, 460V 60 Hz ratings operate on 400V 50 Hz; Full 60 & 50 Hz data on Nameplate

Note LA Limited Availability



HOLLOSHAFT® Motors Steady Bushing Kits

FEATURES:

Steady bushings are designed to fit HOLLOSHAFT® motors and will give the mechanical characteristics of a solid shaft motor. Be sure to enter steady bushings with the motor order. Steady bushings will be included with the motor attached to the skid for customer installation in the field. Product listed may not be available from stock.

Frame	Type	Kit Part Number	Bore Size	List Price
182-215	AUS, AUSI, TUS, TUCI	365649	0.750	\$202
		978141	0.875	\$202
		365650	1.000	\$202
254-286	AUS, AUSI, TUS	365651	0.750	\$202
		978142	0.875	\$202
		365657	1.000	\$202
		978143	1.063	\$202
		365659	1.188	\$202
		365662	1.250	\$202
284-286	TUCI	365663	1.000	\$202
		365664	1.188	\$202
		365665	1.250	\$202
		978146	1.500	\$202
324-326	RUS, RUSI, TUS, TUCI	978147	1.000	\$300
		365666	1.188	\$300
		365667	1.250	\$300
		978148	1.313	\$300
		365668	1.438	\$300
		365669	1.500	\$300
364-365	RUS, RUSI	978147	1.000	\$300
		365666	1.188	\$300
		365667	1.250	\$300
		978148	1.313	\$300
		365668	1.438	\$300
		365669	1.500	\$300
364-365	TUS, TUCI	978149	1.000	\$300
		365670	1.188	\$300
		365671	1.250	\$300
		365672	1.438	\$300
		365673	1.500	\$300
		978150	1.563	\$300
		978151	1.625	\$300
		978153	1.688	\$300
		978152	1.750	\$300
404-405	RUS, RUSI	978154	1.188	\$300
		978155	1.250	\$300
		365674	1.438	\$300
		365675	1.500	\$300
		978156	1.563	\$300
		365676	1.688	\$300
		978157	1.813	\$300

Discount Symbol: DS-7VS



HOLLOSHAFT® Motors Steady Bushing Kits

FEATURES:

Steady bushings are designed to fit HOLLOSHAFT® motors and will give the mechanical characteristics of a solid shaft motor. Be sure to enter steady bushings with the motor order. Steady bushings will be included with the motor attached to the skid for customer installation in the field. Product listed may not be available from stock.

Frame	Type	Kit Part Number	Bore Size	List Price
404-405	TUS, TUCI	365677	1.438	\$300
		365678	1.500	\$300
		978158	1.563	\$300
		978159	1.625	\$300
		365679	1.688	\$300
		978160	1.750	\$300
		978161	1.875	\$300
		365680	1.938	\$300
H444-447	RUS, RUSI	978162	1.313	\$300
		365677	1.438	\$300
		365678	1.500	\$300
		365679	1.688	\$300
		978160	1.750	\$300
		365680	1.938	\$300
		978163	2.125	\$300
		365681	2.188	\$300
444-447	TUS, TUCI	365682	2.250	\$300
		2070898	1.188	\$300
		2070899	1.438	\$300
		2070900	1.500	\$300
		2070901	1.563	\$300
		2070902	1.625	\$300
		2070903	1.688	\$300
		2070904	1.750	\$300
449	RUS, RUSI	2070905	1.875	\$300
		2070906	1.938	\$300
		2074162	1.688	\$418
		2087668*	1.750	\$418
		2074161	1.938	\$418
		2087669*	2.125	\$418
		2074160	2.188	\$418
		2087670*	2.375	\$418
449	HUS, HUSI, JUE, JUCEI	2087671*	2.438	\$418
		2087672*	2.500	\$418
		970273	1.688	\$418
		970274	1.938	\$418
		970275	2.125	\$418
		970276	2.188	\$418
		970277	2.375	\$418
		970278	2.438	\$418
5008-5012	RUE, RUEI	970279	2.500	\$418
		2037052	1.688	\$418
		2037054	1.938	\$418
		2037055*	2.125	\$418
		2037056	2.188	\$418
		2037057*	2.250	\$418
		2037058*	2.375	\$418
		2037059	2.438	\$418
		2037060*	2.500	\$418

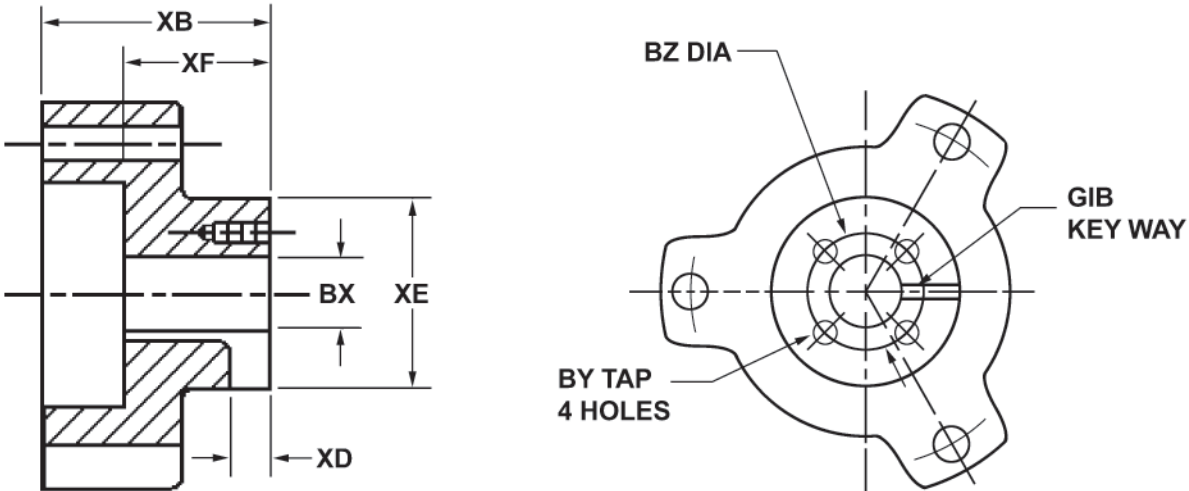
Discount Symbol: DS-7VS

* Product listed may not be available from stock.



HOLLOSHAFT®

Drive Coupling Part Numbers



FRAME	TYPE	PART NO.	BORE SIZE		KEY	BY	BZ	XB	XD	XE	XF
			NOMINAL	ACTUAL							
182-215	AUS, AUSI, TUS, TUCI, AUR	159002	0.750	0.751	0.188	10-32	1.375	1.750	0.344	2.000	1.125
		181107	0.875	0.876	0.188	10-32	1.375	1.750	0.406	2.000	1.125
		159001	1.000	1.001	0.250	10-32	1.375	1.750	0.406	2.000	1.125
		157744	BLANK	0.624	-	-	-	1.750	-	2.000	1.125
254-256	AUS, AUSI, TUS, TUCI, AUC	174431	0.750	0.751	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		181105	0.875	0.876	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		B 102999	1.000	1.001	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		779353*	1.063	1.063	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		B 104720	1.188	1.188	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		152434	1.250	1.251	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		366983	1.250	1.251	0.375	.25-20	1.750	2.563	0.531	2.250	1.625
		B 102986	BLANK	0.751	-	-	-	2.563	-	2.250	1.625
284-286	AUS, AUSI, TUS	174431	0.750	0.751	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		181105	0.875	0.876	0.188	10-32	1.375	2.563	0.344	2.250	1.625
		B 102999	1.000	1.001	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		779353*	1.063	1.063	0.250	10-32	1.375	2.563	0.406	2.250	1.625
		B 104720	1.188	1.188	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		152434	1.250	1.251	0.250	.25-20	1.750	2.563	0.406	2.250	1.625
		366983	1.250	1.251	0.375	.25-20	1.750	2.563	0.531	2.250	1.625
		B 102986	BLANK	0.751	-	-	-	2.563	-	2.250	1.625
284-286	TUCI	922477*	0.750	0.751	0.188	10-32	1.375	2.563	0.406	2.625	1.625
		181104	0.875	0.876	0.188	10-32	1.375	2.563	0.406	2.625	1.625
		A 112000-000	1.000	1.001	0.250	10-32	1.375	2.563	0.406	2.625	1.625
		A 108186-000	1.188	1.188	0.250	.25-20	1.750	2.563	0.406	2.625	1.625
		922970*	1.313	1.313	0.250	.25-20	1.750	2.563	0.406	2.625	1.625
		162457-000	1.250	1.251	0.250	.25-20	1.750	2.563	0.406	2.625	1.625
		366982-000	1.250	1.251	0.375	.25-20	1.750	2.563	0.531	2.625	1.625
		661737*	1.500	1.501	0.250	.25-20	2.125	2.563	0.406	2.625	1.625
		B 108184-000	BLANK	0.751	-	-	-	2.563	-	2.625	1.625

** Gib key is not included.



HOLLOSHAFT®

Drive Coupling Part Numbers

VERTICAL
MOTORS

KITS &
ACCESSORIES

CONVERSION
CENTER

PRODUCT
SPECIFICATION GUIDE

INDEX

FRAME	TYPE	PART NO.	BORE SIZE		KEY	BY	BZ	XB	XD	XE	XF
			NOMINAL	ACTUAL							
324-326	RUS, RUSI, TUS, TUCI	136731	1.000	1.001	0.250	10-32	1.375	2.938	0.406	2.875	1.938
		132607	1.188	1.188	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		162458	1.250	1.251	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		132608	1.250	1.251	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		795905*	1.313	1.313	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		132609	1.438	1.438	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		132610	1.500	1.501	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		B 108565	BLANK	0.751	-	-	-	2.938	-	2.875	1.938
364-365	RUS, RUSI	136731	1.000	1.001	0.250	10-32	1.375	2.938	0.406	2.875	1.938
		132607	1.188	1.188	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		162458	1.250	1.251	0.250	.25-20	1.750	2.938	0.406	2.875	1.938
		132608	1.250	1.251	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		795905*	1.313	1.313	0.375	.25-20	1.750	2.938	0.531	2.875	1.938
		132609	1.438	1.438	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		132610	1.500	1.501	0.375	.25-20	2.125	2.938	0.531	2.875	1.938
		B 108565	BLANK	0.751	-	-	-	2.938	-	2.875	1.938
364-365	TUS, TUCI	471208*	1.000	1.001	0.250	.25-20	1.375	3.813	0.406	3.625	2.750
		172313	1.188	1.188	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		172315	1.250	1.251	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		366985	1.250	1.251	0.375	.25-20	1.750	3.813	0.531	3.625	2.750
		172314	1.438	1.438	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118296	1.500	1.501	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		929360*	1.563	1.563	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		789957*	1.625	1.626	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118297*	1.688	1.688	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		118298*	1.750	1.751	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		118295	BLANK	0.751	-	-	-	3.813	-	3.625	2.750
404-405	RUS, RUSI	133000	1.188	1.188	0.250	.25-20	1.750	3.406	0.406	3.125	2.406
		707806*	1.250	1.251	0.250	.25-20	1.750	3.406	0.406	3.125	2.406
		661856	1.250	1.251	0.375	.25-20	1.750	3.406	0.531	3.125	2.406
		133002	1.438	1.438	0.375	.25-20	2.125	3.406	0.531	3.125	2.406
		133003	1.500	1.501	0.375	.25-20	2.125	3.406	0.531	3.125	2.406
		766777*	1.563	1.563	0.375	.25-20	2.500	3.406	0.531	3.125	2.406
		149451	1.688	1.688	0.375	.25-20	2.500	3.406	0.531	3.125	2.406
		928124*	1.813	1.813	0.375	.25-20	2.500	3.406	0.531	3.125	2.406
		133005	BLANK	0.751	-	-	-	3.406	-	3.125	2.406
404-405	TUS, TUCI	471208*	1.000	1.001	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		172313	1.188	1.188	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		172315	1.250	1.251	0.250	.25-20	1.750	3.813	0.406	3.625	2.750
		366985	1.250	1.251	0.375	.25-20	1.750	3.813	0.531	3.625	2.750
		172314	1.438	1.438	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118296	1.500	1.501	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		929360*	1.563	1.563	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		789957*	1.625	1.626	0.375	.25-20	2.125	3.813	0.531	3.625	2.750
		118297	1.688	1.688	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		118298*	1.750	1.751	0.375	.25-20	2.500	3.813	0.531	3.625	2.750
		926393*	1.875	1.876	0.500	.25-20	2.500	3.813	0.531	3.625	2.750
		118299*	1.938	1.938	0.500	.25-20	2.500	3.813	0.531	3.625	2.750
		118295	BLANK	0.751	-	-	-	3.813	-	3.625	2.750

** Gib key is not included.



HOLLOSHAFT®

Drive Coupling Part Numbers

FRAME	TYPE	PART NO.	BORE SIZE		KEY	BY	BZ	XB	XD	XE	XF
			NOMINAL	ACTUAL							
H444-447	RUS, RUSI	945496*	1.313	1.313	0.375	.25-20	2.125	4.000	0.688	3.688	2.875
		132576	1.438	1.438	0.375	.25-20	2.125	4.000	0.688	3.688	2.875
		132577	1.500	1.501	0.375	.25-20	2.125	4.000	0.531	3.688	2.875
		132578	1.688	1.688	0.375	.25-20	2.500	4.000	0.531	3.688	2.875
		742204*	1.750	1.751	0.375	.25-20	2.500	4.000	0.531	3.688	2.875
		132579	1.938	1.938	0.500	.25-20	2.500	4.000	0.688	3.688	2.875
		934083*	2.125	2.126	0.500	.375-16	3.250	4.000	0.688	4.000	2.875
		136874	2.188	2.188	0.500	.375-16	3.250	4.000	0.688	4.000	2.875
		136875	2.250	2.251	0.500	.375-16	3.250	4.000	0.688	4.000	2.875
444-447	TUS, TUCI	131805	BLANK	0.751	-	-	-	4.000	-	3.688	2.875
		172314	1.438	1.438	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		118296	1.500	1.501	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		929360*	1.563	1.563	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		789957*	1.625	1.626	0.375	.25-20	2.125	3.813	0.531	3.875	2.750
		118297	1.688	1.688	0.375	.25-20	2.500	3.813	0.531	3.875	2.750
		118298	1.750	1.751	0.375	.25-20	2.500	3.813	0.531	3.875	2.750
		926393*	1.875	1.876	0.500	.25-20	2.500	3.813	0.531	3.875	2.750
		118299	1.938	1.938	0.500	.25-20	2.500	3.813	0.531	3.875	2.750
449-5008	RUS, RUSI, RUE, RUEI, JUE, JUCEI	118295-000	BLANK	0.751	-	-	-	2.563	-	3.625	2.750
		129679	1.688	1.688	0.375	.25-20	2.500	4.375	0.531	4.750	3.063
		A 113288	1.938	1.938	0.500	.25-20	2.500	4.375	0.688	4.750	3.063
		A 113287	2.125	2.126	0.500	.375-16	3.250	4.375	0.688	4.750	3.063
		A 113289	2.188	2.188	0.500	.375-16	3.250	4.375	0.688	4.750	3.063
		863877	2.250	2.251	0.500	.375-16	3.250	4.375	0.688	4.750	3.063
		A 113313	2.375	2.376	0.625	.375-16	3.250	4.375	25/32	4.750	3.063
		A 113290	2.438	2.438	0.625	.375-16	3.250	4.375	25/32	4.750	3.063
		A 113314	2.500	2.501	0.625	.375-16	3.750	4.375	25/32	4.750	3.063
5012	RUE, RUEI	A 113285	BLANK	-	-	-	-	4.375	-	4.750	3.063
		803186*	1.688	1.688	0.375	.250-20	2.500	5.125	0.500	5.000	3.625
		235069*	1.938	1.938	0.500	.250-20	2.500	5.125	0.500	5.000	3.625
		248380*	2.125	2.126	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		143112*	2.188	2.188	0.500	.375-16	3.250	5.125	0.500	5.000	3.625
		238062*	2.250	2.251	0.500	.375-16	3.250	5.125	0.500	5.000	3.625
		A143113*	2.438	2.438	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		249156*	2.500	2.501	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		143115*	2.688	2.688	0.625	.375-16	3.750	5.125	0.500	5.000	3.625
		143116*	2.750	2.751	0.625	.375-16	3.250	5.125	0.500	5.000	3.625
		143111*	BLANK	BLANK	-	-	-	5.125	-	5.000	3.625

** Gib key is not included.

*Product listed may not be available from stock.

