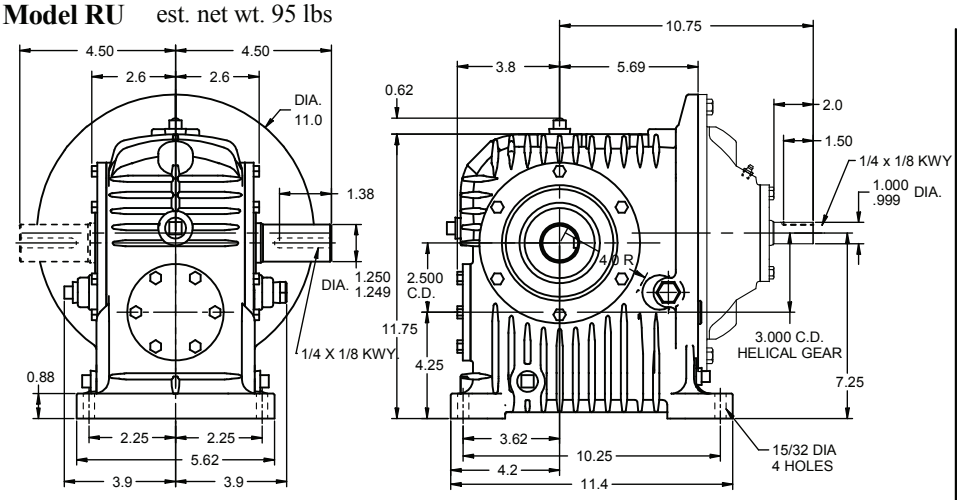
Cone Drive Helical/Worm Speed Reducer - 2.500″C.D.

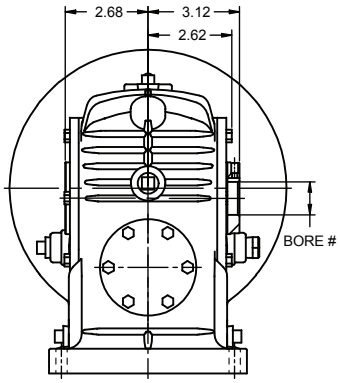
Size 25 Solid Shaft

Model RU est. net wt. 95 lbs



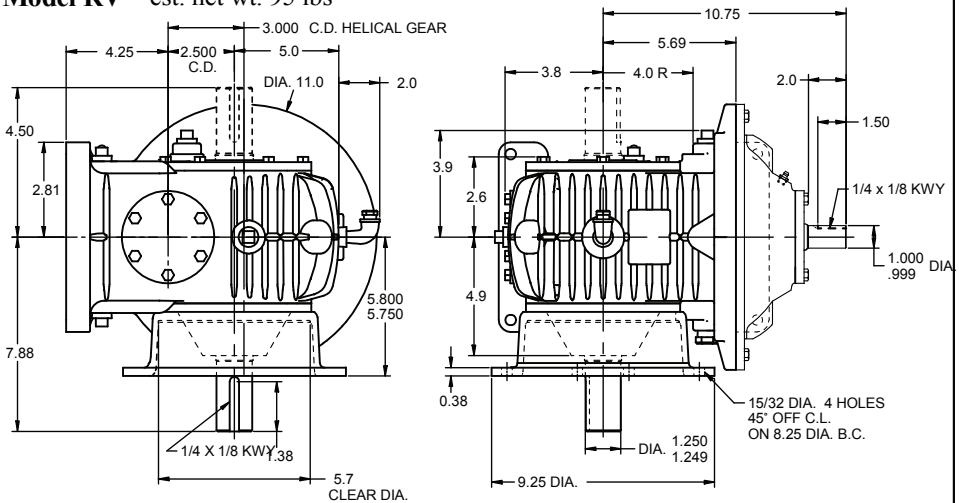
Hollow Shaft

SRU est. net wt. 95 lbs



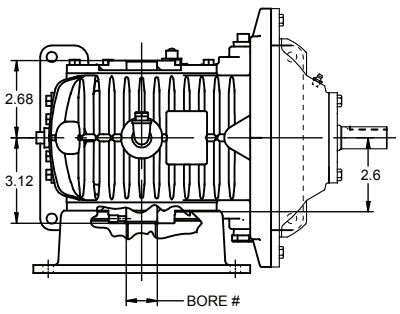
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 95 lbs



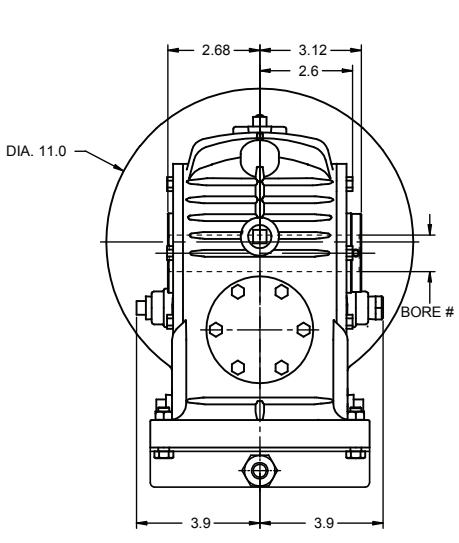
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SRV est. net wt. 95 lbs

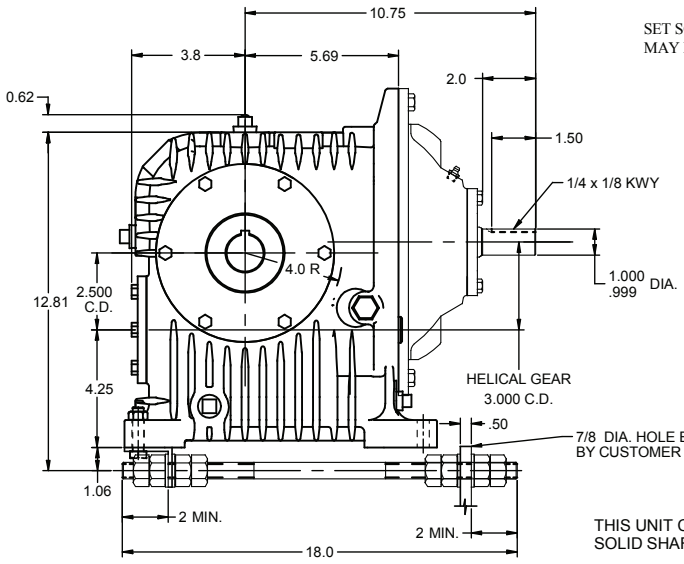


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 95 lbs



FOR DIMENSIONS NOT SHOWN SEE MODEL "RU" ABOVE



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

THIS UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 25 3.000" C.D. HELICAL PRI./2.500" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	0.80	3.63	4.82	5.65	7.08
	Th.HP	0.80	3.63	4.82	5.65	7.08
	O.T.	2180	1740	1550	1380	1140
7.5:1 1.5 x 5	Me.HP	0.54	2.62	3.63	4.44	5.69
	Th.HP	0.54	2.62	3.63	4.44	5.69
	O.T.	2180	1880	1740	1620	1370
9:1 1.8 x 5	Me.HP	0.46	2.24	3.15	3.91	5.14
	Th.HP	0.46	2.24	3.15	3.91	5.14
	O.T.	2180	1920	1810	1710	1480
10:1 1 x 10	Me.HP	0.51	2.33	3.14	3.73	4.68
	Th.HP	0.51	2.33	3.14	3.73	4.68
	O.T.	2580	2150	1960	1770	1480
12.5:1 2.5 x 5	Me.HP	0.33	1.68	2.40	3.02	4.17
	Th.HP	0.33	1.68	2.40	3.02	4.17
	O.T.	2180	2000	1910	1820	1660
15:1 1.5 x 10	Me.HP	0.35	1.67	2.33	2.88	3.76
	Th.HP	0.35	1.67	2.33	2.88	3.76
	O.T.	2580	2280	2150	2030	1760
18:1 1.8 x 10	Me.HP	0.29	1.42	2.01	2.52	3.39
	Th.HP	0.29	1.42	2.01	2.52	3.39
	O.T.	2580	2320	2210	2110	1890
20:1 4 x 5	Me.HP	0.21	1.12	1.59	2.03	2.90
	Th.HP	0.21	1.12	1.59	2.03	2.90
	O.T.	2180	2110	2010	1950	1840
22.5:1 1.5 x 15	Me.HP	0.24	1.17	1.64	2.04	2.67
	Th.HP	0.24	1.17	1.64	2.04	2.67
	O.T.	2590	2310	2210	2100	1840
25:1 2.5 x 10	Me.HP	0.21	1.07	1.52	1.93	2.70
	Th.HP	0.21	1.07	1.52	1.93	2.70
	O.T.	2580	2400	2300	2230	2070
27:1 1.8 x 15	Me.HP	0.20	1.00	1.42	1.77	2.39
	Th.HP	0.20	1.00	1.42	1.77	2.39
	O.T.	2590	2340	2260	2170	1970
30:1 1.5 x 20	Me.HP	0.19	0.90	1.26	1.56	2.05
	Th.HP	0.19	0.90	1.26	1.56	2.05
	O.T.	2510	2260	2190	2070	1800
36:1 1.8 x 20	Me.HP	0.16	0.77	1.09	1.36	1.84
	Th.HP	0.16	0.77	1.09	1.36	1.84
	O.T.	2510	2280	2230	2150	1930
37.5:1 2.5 x 15	Me.HP	0.15	0.75	1.07	1.36	1.90
	Th.HP	0.15	0.75	1.07	1.36	1.90
	O.T.	2590	2420	2330	2280	2140
40:1 4 x 10	Me.HP	0.14	0.71	1.01	1.29	1.85
	Th.HP	0.14	0.71	1.01	1.29	1.85
	O.T.	2580	2510	2410	2350	2250
45:1 1.8 x 25	Me.HP	0.13	0.62	0.88	1.09	1.48
	Th.HP	0.13	0.62	0.88	1.09	1.48
	O.T.	2410	2270	2200	2120	1930
50:1 2.5 x 20	Me.HP	0.11	0.57	0.82	1.04	1.46
	Th.HP	0.11	0.57	0.82	1.04	1.46
	O.T.	2510	2340	2270	2240	2110
54:1 1.8 x 30	Me.HP	0.11	0.52	0.73	0.92	1.24
	Th.HP	0.11	0.52	0.73	0.92	1.24
	O.T.	2300	2120	2060	2000	1860
60:1 4 x 15	Me.HP	0.09	0.50	0.71	0.91	1.30
	Th.HP	0.09	0.50	0.71	0.91	1.30
	O.T.	2590	2530	2430	2370	2290
62.5:1 2.5 x 25	Me.HP	0.09	0.46	0.66	0.84	1.18
	Th.HP	0.09	0.46	0.66	0.84	1.18
	O.T.	2410	2320	2260	2220	2090
72:1 1.8 x 40	Me.HP	0.08	0.39	0.55	0.69	0.93
	Th.HP	0.08	0.39	0.55	0.69	0.93
	O.T.	2070	2000	1970	1920	1770
75:1 2.5 x 30	Me.HP	0.08	0.39	0.55	0.70	0.98
	Th.HP	0.08	0.39	0.55	0.70	0.98
	O.T.	2300	2170	2110	2070	1980

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
80:1 4 x 20	Me.HP	0.07	0.38	0.54	0.69	1.00
	Th.HP	0.07	0.38	0.54	0.69	1.00
	O.T.	2510	2450	2360	2290	2250
90:1 1.8 x 50	Me.HP	0.07	0.31	0.44	0.55	0.75
	Th.HP	0.07	0.31	0.44	0.55	0.75
	O.T.	1840	1910	1910	1870	1700
100:1 4 x 25	Me.HP	0.06	0.31	0.44	0.56	0.80
	Th.HP	0.06	0.31	0.44	0.56	0.80
	O.T.	2410	2370	2320	2290	2230
108:1 1.8 x 60	Me.HP	0.06	0.27	0.38	0.46	0.64
	Th.HP	0.06	0.27	0.38	0.46	0.64
	O.T.	1800	1835	1820	1785	1665
120:1 4 x 30	Me.HP	0.05	0.26	0.37	0.47	0.67
	Th.HP	0.05	0.26	0.37	0.47	0.67
	O.T.	2300	2250	2180	2140	2080
125:1 2.5 x 50	Me.HP	0.05	0.23	0.33	0.42	0.59
	Th.HP	0.05	0.23	0.33	0.42	0.59
	O.T.	1840	1900	1910	1920	1840
150:1 2.5 x 60	Me.HP	0.04	0.20	0.28	0.36	0.49
	Th.HP	0.04	0.20	0.28	0.36	0.49
	O.T.	1800	1880	1835	1820	1760
160:1 4 x 40	Me.HP	0.04	0.19	0.28	0.35	0.51
	Th.HP	0.04	0.19	0.28	0.35	0.51
	O.T.	2070	2030	1980	1990	1980
200:1 4 x 50	Me.HP	0.03	0.16	0.22	0.28	0.41
	Th.HP	0.03	0.16	0.22	0.28	0.41
	O.T.	1840	1880	1890	1900	1920
240:1 4 x 60	Me.HP	0.03	0.13	0.19	0.24	0.34
	Th.HP	0.03	0.13	0.19	0.24	0.34
	O.T.	1800	1845	1890	1850	1825

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

Set screw end of hollow shaft is considered the extension end.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	**GEARSHAFT NUMBER**	**KEYWAY SIZE**
2.000*	25-S60-200	1/4 X 1/8
1.9375*	25-S60-115	1/4 X 1/8
1.6875*	25-S60-111	3/8 X 3/16
1.4375*	25-S60-107	3/8 X 3/16
1.250*	25-S60-104	1/4 X 1/8
1.1875*	25-S60-103	1/4 X 1/8

Special hollow gear shaft bore sizes are available at additional cost.

*AGMA Standard Bore Tolerance: +.002, -.000

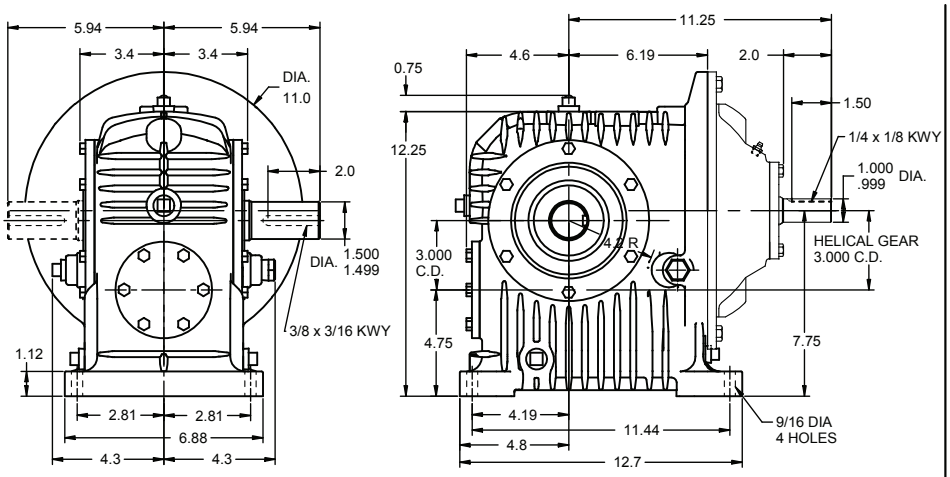
2 set screws at long end of shaft.

Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducer - 3.000″ C.D.

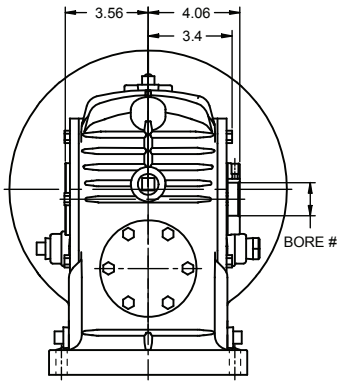
Size 30 Solid Shaft

Model RU est. net wt. 125 lbs.



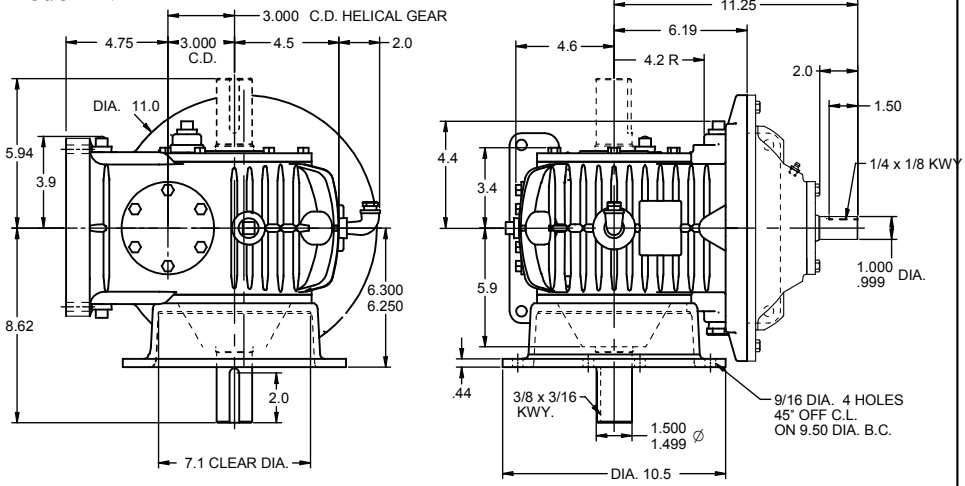
Hollow Shaft

SRU est. net wt. 125 lbs.



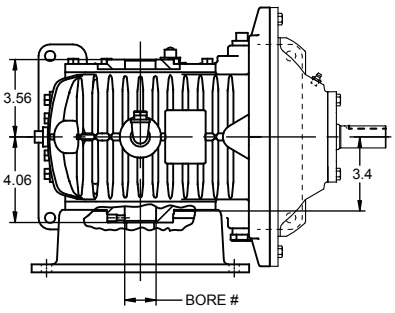
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 135 lbs.



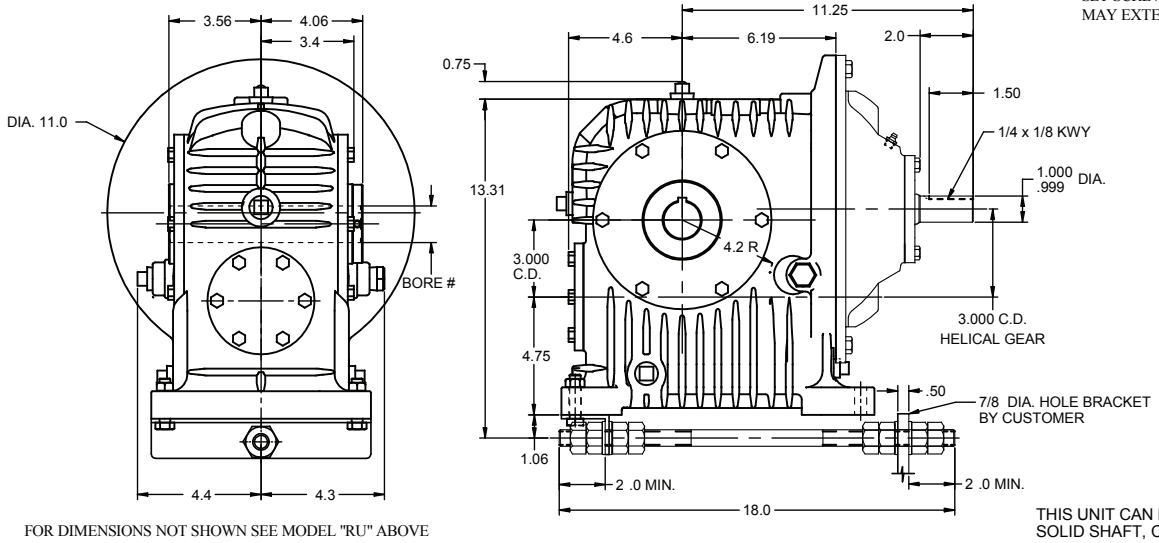
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SRV est. net wt. 135 lbs.



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 130 lbs.



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

FOR DIMENSIONS NOT SHOWN SEE MODEL "RU" ABOVE

THIS UNIT CAN BE SUPPLIED WITH
SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 30 3.000" C.D. HELICAL PRI./3.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
5:1 1 x 5	Me.HP	1.42	6.24	8.03	9.34	11.7
	Th.HP	1.42	6.24	8.03	9.34	9.20
	O.T.	3870	3000	2590	2280	1880
7.5:1 1.5 x 5	Me.HP	0.97	4.57	6.24	7.47	9.41
	Th.HP	0.97	4.57	6.24	7.47	9.20
	O.T.	3870	3280	3000	2730	2270
9:1 1.8 x 5	Me.HP	0.81	3.94	5.45	6.66	8.53
	Th.HP	0.81	3.94	5.45	6.66	8.53
	O.T.	3870	3380	3140	2910	2460
10:1 1 x 10	Me.HP	0.91	4.09	5.43	6.35	7.96
	Th.HP	0.91	4.09	5.43	6.35	7.96
	O.T.	4600	3770	3380	3010	2510
12.5:1 2.5 x 5	Me.HP	0.59	2.97	4.20	5.25	7.08
	Th.HP	0.59	2.97	4.20	5.25	7.08
	O.T.	3870	3520	3340	3170	2820
15:1 1.5 x 10	Me.HP	0.62	2.96	4.09	4.99	6.40
	Th.HP	0.62	2.96	4.09	4.99	6.40
	O.T.	4600	4040	3770	3510	3000
18:1 1.8 x 10	Me.HP	0.52	2.53	3.55	4.40	5.78
	Th.HP	0.52	2.53	3.55	4.40	5.78
	O.T.	4600	4130	3910	3700	3230
20:1 4 x 5	Me.HP	0.35	1.97	2.80	3.58	5.05
	Th.HP	0.35	1.97	2.80	3.58	5.05
	O.T.	3550	3720	3550	3430	3200
22.5:1 1.5 x 15	Me.HP	0.43	2.08	2.89	3.54	4.55
	Th.HP	0.43	2.08	2.89	3.54	4.55
	O.T.	4620	4100	3880	3660	3140
25:1 2.5 x 10	Me.HP	0.38	1.90	2.70	3.41	4.70
	Th.HP	0.38	1.90	2.70	3.41	4.70
	O.T.	4600	4260	4090	3930	3610
27:1 1.8 x 15	Me.HP	0.36	1.78	2.50	3.11	4.11
	Th.HP	0.36	1.78	2.50	3.11	4.11
	O.T.	4620	4170	3990	3820	3390
30:1 1.5 x 20	Me.HP	0.33	1.59	2.22	2.72	3.50
	Th.HP	0.33	1.59	2.22	2.72	3.50
	O.T.	4470	4020	3860	3600	3090
36:1 1.8 x 20	Me.HP	0.28	1.36	1.92	2.39	3.16
	Th.HP	0.28	1.36	1.92	2.39	3.16
	O.T.	4470	4060	3940	3780	3330
37.5:1 2.5 x 15	Me.HP	0.26	1.34	1.90	2.40	3.32
	Th.HP	0.26	1.34	1.90	2.40	3.32
	O.T.	4620	4300	4140	4020	3740
40:1 4 x 10	Me.HP	0.24	1.26	1.80	2.29	3.27
	Th.HP	0.24	1.26	1.80	2.29	3.27
	O.T.	4600	4460	4280	4170	3970
45:1 1.8 x 25	Me.HP	0.23	1.10	1.55	1.92	2.55
	Th.HP	0.23	1.10	1.55	1.92	2.55
	O.T.	4300	4050	3890	3730	3340
50:1 2.5 x 20	Me.HP	0.20	1.02	1.46	1.84	2.55
	Th.HP	0.20	1.02	1.46	1.84	2.55
	O.T.	4470	4160	4040	3960	3690
54:1 1.8 x 30	Me.HP	0.19	0.92	1.29	1.61	2.14
	Th.HP	0.19	0.92	1.29	1.61	2.14
	O.T.	4110	3780	3630	3510	3200
60:1 4 x 15	Me.HP	0.17	0.89	1.26	1.61	2.31
	Th.HP	0.17	0.89	1.26	1.61	2.31
	O.T.	4620	4500	4330	4220	4050
62.5:1 2.5 x 25	Me.HP	0.17	0.82	1.18	1.48	2.06
	Th.HP	0.17	0.82	1.18	1.48	2.06
	O.T.	4300	4120	4030	3920	3660
72:1 1.8 x 40	Me.HP	0.14	0.69	0.97	1.21	1.61
	Th.HP	0.14	0.69	0.97	1.21	1.61
	O.T.	3700	3560	3480	3370	3050
75:1 2.5 x 30	Me.HP	0.14	0.69	0.98	1.24	1.72
	Th.HP	0.14	0.69	0.98	1.24	1.72
	O.T.	4110	3870	3760	3650	3470
80:1 4 x 20	Me.HP	0.13	0.68	0.97	1.23	1.77
	Th.HP	0.13	0.68	0.97	1.23	1.77
	O.T.	4470	4350	4190	4080	3980
90:1 1.8 x 50	Me.HP	0.12	0.56	0.78	0.97	1.29
	Th.HP	0.12	0.56	0.78	0.97	1.29
	O.T.	3280	3400	3380	3290	2940
100:1 4 x 25	Me.HP	0.11	0.55	0.78	0.99	1.43
	Th.HP	0.11	0.55	0.78	0.99	1.43
	O.T.	4300	4220	4130	4080	3940
108:1 1.8 x 60	Me.HP	0.10	0.46	0.65	0.81	1.08
	Th.HP	0.10	0.46	0.65	0.81	1.08
	O.T.	3230	3260	3200	3110	2830
120:1 4 x 30	Me.HP	0.09	0.46	0.65	0.83	1.19
	Th.HP	0.09	0.46	0.65	0.83	1.19
	O.T.	4110	4000	3880	3810	3680
125:1 2.5 x 50	Me.HP	0.09	0.42	0.59	0.75	1.04
	Th.HP	0.09	0.42	0.59	0.75	1.04
	O.T.	3280	3370	3400	3390	3230
150:1 2.5 x 60	Me.HP	0.07	0.35	0.50	0.63	0.87
	Th.HP	0.07	0.35	0.50	0.63	0.87
	O.T.	3230	3290	3260	3210	3070
160:1 4 x 40	Me.HP	0.07	0.35	0.49	0.63	0.90
	Th.HP	0.07	0.35	0.49	0.63	0.90
	O.T.	3700	3610	3520	3550	3510
200:1 4 x 50	Me.HP	0.06	0.28	0.39	0.50	0.72
	Th.HP	0.06	0.28	0.39	0.50	0.72
	O.T.	3280	3350	3370	3390	3400
240:1 4 x 60	Me.HP	0.05	0.23	0.33	0.42	0.60
	Th.HP	0.05	0.23	0.33	0.42	0.60
	O.T.	3230	3280	3300	3250	3230

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

Set screw end of hollow shaft is considered the extension end.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	**GEAR SHAFT NUMBER**	**KEYWAY SIZE**
2.500*	30-S60-208	3/8 x 3/16
2.4375*	30-S60-207	3/8 x 3/16
2.1875*	30-S60-203	1/2 x 1/4
1.9375*	30-S60-115	1/2 x 1/4
1.6875*	30-S60-111	3/8 x 3/16
1.500*	30-S60-108	3/8 x 3/16

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard
Bore Tolerance: +.002, -.000
2 set screws at long end of shaft.

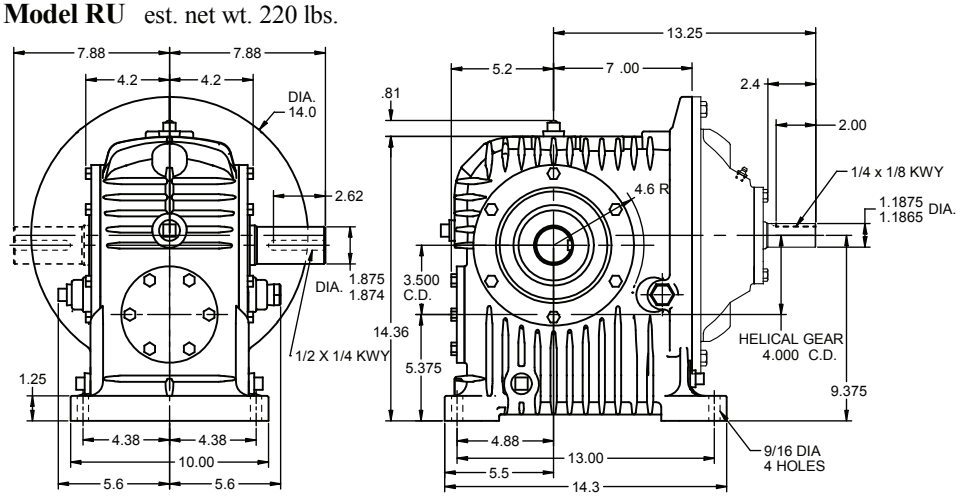
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducer - 3.500″ C.D.

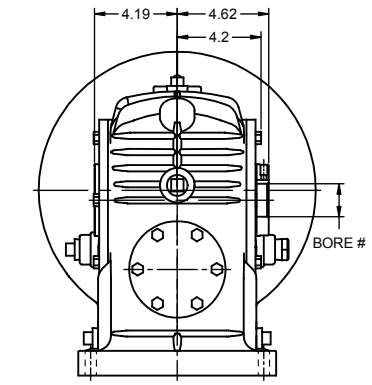
Size 35 Solid Shaft

Hollow Shaft

Model RU est. net wt. 220 lbs.

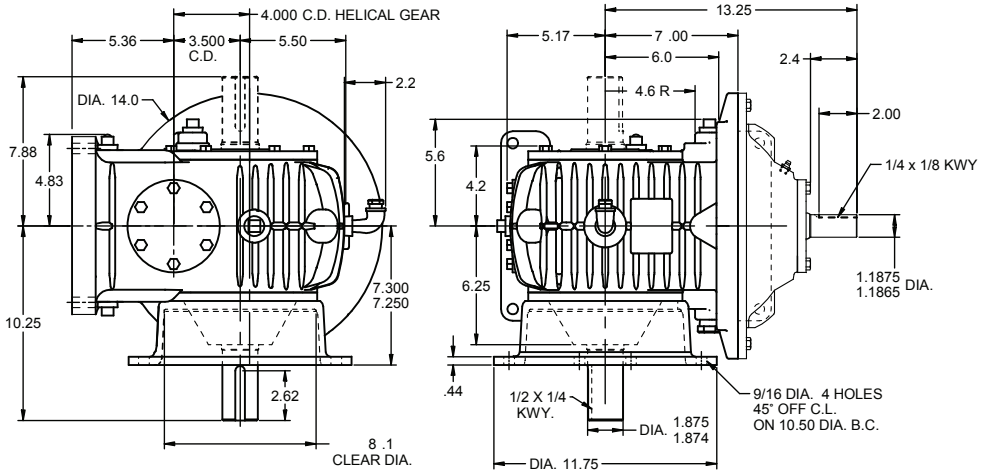


SRU est. net wt. 220 lbs.



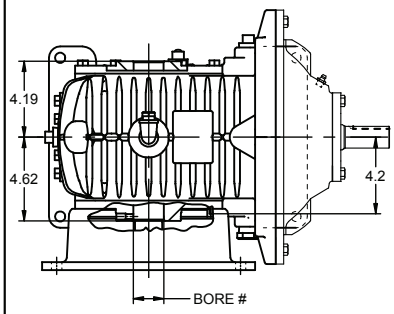
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 230 lbs.



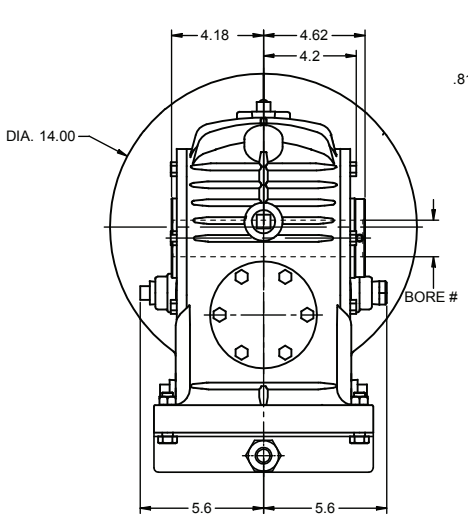
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SRV est. net wt. 230 lbs.

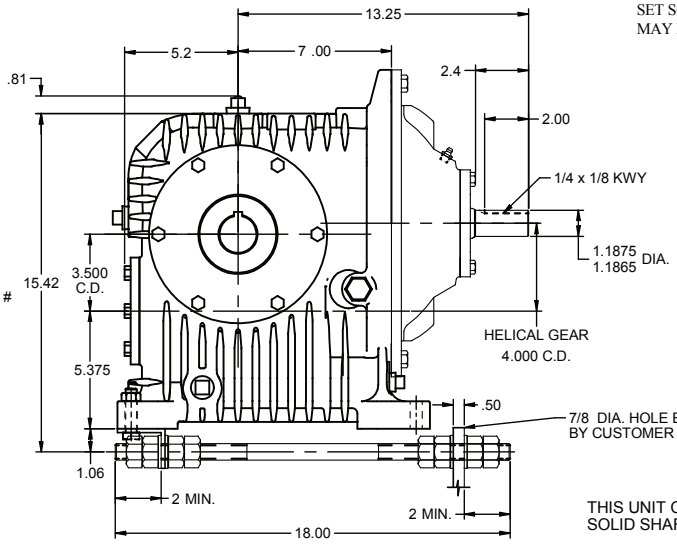


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 225 lbs.



FOR DIMENSIONS NOT SHOWN SEE MODEL "RU" ABOVE



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

THIS UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 35 4.000" C.D. HELICAL PRI./3.500" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	1.66	8.93	13.1	16.4	20.3
	Th.HP	1.66	8.93	11.7	11.9	12.2
	O.T.	4520	4290	4200	4000	3280
7.5:1 1.5 x 5	Me.HP	1.38	7.45	10.9	13.2	16.5
	Th.HP	1.38	7.45	10.1	10.7	12.2
	O.T.	5520	5340	5240	4800	3970
9:1 1.8 x 5	Me.HP	1.20	6.50	9.53	11.9	15.0
	Th.HP	1.20	6.50	9.53	10.2	12.2
	O.T.	5720	5580	5480	5180	4310
10:1 1 x 10	Me.HP	1.66	7.37	9.50	11.1	13.8
	Th.HP	1.66	7.37	9.30	10.2	10.3
	O.T.	8430	6790	5910	5250	4360
12.5:1 2.5 x 5	Me.HP	0.96	5.26	7.68	9.52	12.5
	Th.HP	0.96	5.26	7.68	9.20	10.4
	O.T.	6300	6240	6110	5750	4980
15:1 1.5 x 10	Me.HP	1.14	5.40	7.37	8.84	11.1
	Th.HP	1.14	5.40	7.37	8.84	10.2
	O.T.	8510	7370	6790	6220	5210
18:1 1.8 x 10	Me.HP	0.96	4.65	6.44	7.87	10.1
	Th.HP	0.96	4.65	6.44	7.87	10.1
	O.T.	8510	7580	7080	6600	5640
20:1 1 x 20	Me.HP	0.90	3.99	5.18	6.04	7.55
	Th.HP	0.90	3.99	5.18	6.04	7.55
	O.T.	8270	6950	6080	5390	4480
22.5:1 1.5 x 15	Me.HP	0.80	3.80	5.21	6.28	7.92
	Th.HP	0.80	3.80	5.21	6.28	7.92
	O.T.	8540	7490	7000	6480	5460
25:1 2.5 x 10	Me.HP	0.70	3.50	4.96	6.20	8.36
	Th.HP	0.70	3.50	4.96	6.20	8.36
	O.T.	8510	7840	7500	7150	6420
27:1 1.8 x 15	Me.HP	0.67	3.27	4.54	5.57	7.18
	Th.HP	0.67	3.27	4.54	5.57	7.18
	O.T.	8540	7650	7250	6830	5920
30:1 1.5 x 20	Me.HP	0.61	2.91	3.99	4.82	6.08
	Th.HP	0.61	2.91	3.99	4.82	6.08
	O.T.	8270	7340	6950	6390	5360
36:1 1.8 x 20	Me.HP	0.51	2.50	3.48	4.28	5.52
	Th.HP	0.51	2.50	3.48	4.28	5.52
	O.T.	8270	7450	7150	6770	5810
37.5:1 2.5 x 15	Me.HP	0.49	2.46	3.49	4.37	5.92
	Th.HP	0.49	2.46	3.49	4.37	5.92
	O.T.	8540	7920	7600	7310	6660
40:1 4 x 10	Me.HP	0.45	2.32	3.31	4.22	5.96
	Th.HP	0.45	2.32	3.31	4.22	5.96
	O.T.	8510	8210	7890	7680	7220
45:1 1.8 x 25	Me.HP	0.42	2.02	2.81	3.45	4.46
	Th.HP	0.42	2.02	2.81	3.45	4.46
	O.T.	7950	7440	7070	6690	5820
50:1 2.5 x 20	Me.HP	0.38	1.88	2.67	3.35	4.54
	Th.HP	0.38	1.88	2.67	3.35	4.54
	O.T.	8270	7660	7420	7200	6580
54:1 1.8 x 30	Me.HP	0.35	1.69	2.35	2.89	3.73
	Th.HP	0.35	1.69	2.35	2.89	3.73
	O.T.	7600	6950	6590	6300	5590
60:1 4 x 15	Me.HP	0.31	1.63	2.33	2.97	4.20
	Th.HP	0.31	1.63	2.33	2.97	4.20
	O.T.	8540	8270	7970	7780	7360
62.5:1 2.5 x 25	Me.HP	0.31	1.52	2.16	2.70	3.66
	Th.HP	0.31	1.52	2.16	2.70	3.66
	O.T.	7950	7580	7390	7120	6520
72:1 1.8 x 40	Me.HP	0.27	1.27	1.77	2.18	2.81
	Th.HP	0.27	1.27	1.77	2.18	2.81
	O.T.	6830	6540	6320	6050	5330
75:1 2.5 x 30	Me.HP	0.26	1.27	1.81	2.26	3.07
	Th.HP	0.26	1.27	1.81	2.26	3.07
	O.T.	7600	7120	6900	6640	6180

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
80:1 4 x 20	Me.HP	0.24	1.25	1.78	2.27	3.22
	Th.HP	0.24	1.25	1.78	2.27	3.22
	O.T.	8270	8010	7710	7520	7250
90:1 1.8 x 50	Me.HP	0.22	1.02	1.42	1.75	2.26
	Th.HP	0.22	1.02	1.42	1.75	2.26
	O.T.	6070	6240	6140	5900	5130
100:1 4 x 25	Me.HP	0.20	1.01	1.43	1.83	2.60
	Th.HP	0.20	1.01	1.43	1.83	2.60
	O.T.	7950	7770	7610	7510	7180
108:1 1.8 x 60	Me.HP	0.18	0.85	1.19	1.46	1.88
	Th.HP	0.18	0.85	1.19	1.46	1.88
	O.T.	5970	5990	5810	5580	4940
120:1 4 x 30	Me.HP	0.17	0.84	1.20	1.53	2.17
	Th.HP	0.17	0.84	1.20	1.53	2.17
	O.T.	7600	7360	7150	7010	6690
125:1 2.5 x 50	Me.HP	0.16	0.77	1.09	1.37	1.85
	Th.HP	0.16	0.77	1.09	1.37	1.85
	O.T.	6070	6210	6240	6160	5740
150:1 2.5 x 60	Me.HP	0.14	0.64	0.91	1.14	1.55
	Th.HP	0.14	0.64	0.91	1.14	1.55
	O.T.	5970	6050	5980	5840	5460
160:1 4 x 40	Me.HP	0.13	0.64	0.90	1.15	1.64
	Th.HP	0.13	0.64	0.90	1.15	1.64
	O.T.	6830	6650	6480	6530	6390
200:1 4 x 50	Me.HP	0.10	0.51	0.73	0.93	1.31
	Th.HP	0.10	0.51	0.73	0.93	1.31
	O.T.	6070	6160	6200	6240	6180
240:1 4 x 60	Me.HP	0.09	0.43	0.61	0.77	1.10
	Th.HP	0.09	0.43	0.61	0.77	1.10
	O.T.	5970	6040	6070	5990	5870

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

Set screw end of hollow shaft is considered the extension end.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
2.7500	35-S60-212	3/8 x 3/16
2.6875*	35-S60-211	3/8 x 3/16
2.500	35-S60-208	1/2 x 1/4
2.4375*	35-S60-207	1/2 x 1/4
2.1875*	35-S60-203	3/8 x 3/16
1.9375*	35-S60-115	3/8 x 3/16
1.6875*	35-S60-111	3/8 x 3/16

Special hollow gear shaft bore sizes are available at additional cost.

*AGMA Standard Bore Tolerance: +.002, -.000

2 set screws at long end of shaft.

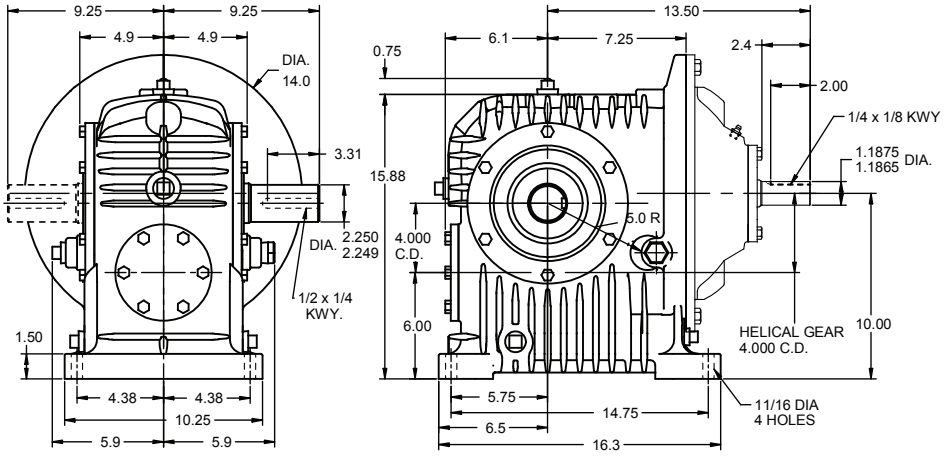
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducers - 4.000" C.D.

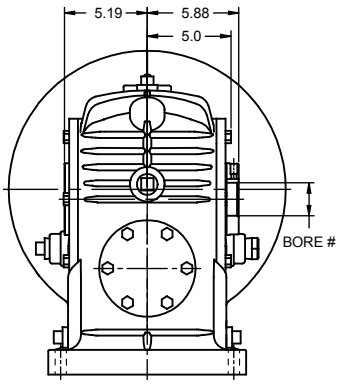
Size 40 Solid Shaft

Hollow Shaft

Model RU est. net wt. 275 lbs.

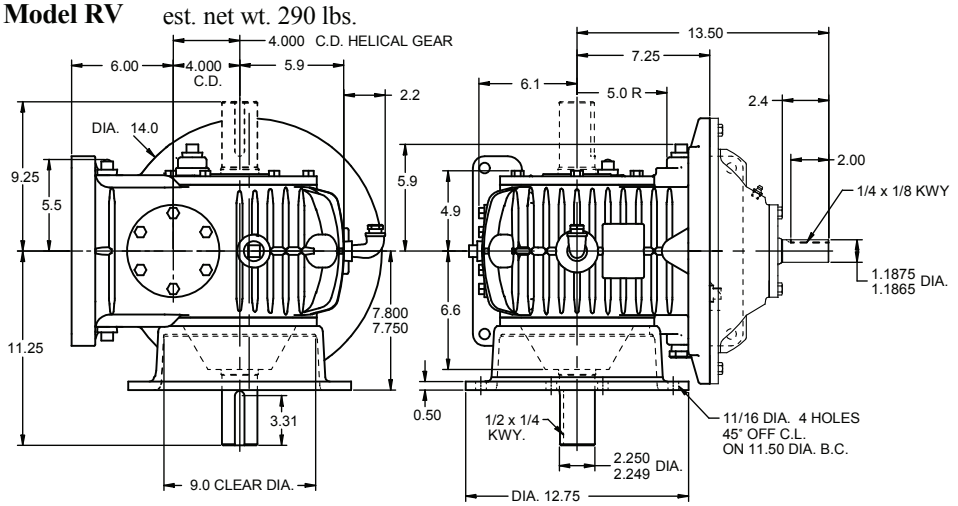


SRU est. net wt. 275 lbs.



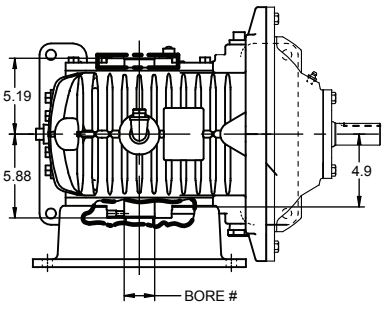
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 290 lbs.



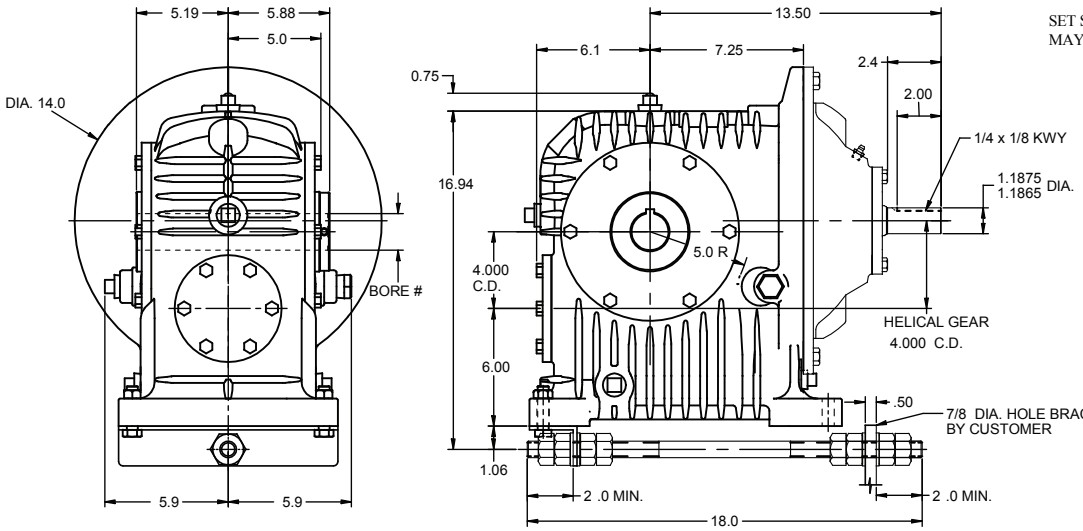
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SRV est. net wt. 290 lbs.



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 280 lbs.



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

FOR DIMENSIONS NOT SHOWN SEE MODEL "RU" ABOVE

THIS UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 40 4.000" C.D. HELICAL PRI./4.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	1.66	8.93	13.1	16.9	24.9
	Th.HP	1.66	8.93	13.1	16.9	18.7
	O.T.	4670	4430	4340	4270	4140
7.5:1 1.5 x 5	Me.HP	1.38	7.45	10.9	14.2	20.9
	Th.HP	1.38	7.45	10.9	14.2	18.7
	O.T.	5710	5520	5410	5330	5190
9:1 1.8 x 5	Me.HP	1.2	6.5	9.53	12.4	18.3
	Th.HP	1.2	6.5	9.53	12.4	17.9
	O.T.	5920	5770	5660	5580	5440
10:1 1 x 10	Me.HP	1.66	8.93	13.1	15.3	19
	Th.HP	1.66	8.93	13.1	15.3	15.4
	O.T.	8730	8520	8400	7490	6190
12.5:1 2.5 x 5	Me.HP	0.96	5.26	7.72	10.0	14.8
	Th.HP	0.96	5.26	7.72	10.0	14.8
	O.T.	6520	6450	6350	6260	6110
15:1 1.5 x 10	Me.HP	1.38	7.45	10.3	12.3	15.4
	Th.HP	1.38	7.45	10.3	12.3	15.2
	O.T.	10700	10500	9860	8910	7440
18:1 1.8 x 10	Me.HP	1.20	6.50	9.13	11.0	13.9
	Th.HP	1.20	6.50	9.13	11.0	13.9
	O.T.	11100	11000	10400	9580	8050
20:1 1 x 20	Me.HP	1.30	5.62	7.17	8.34	10.4
	Th.HP	1.30	5.62	7.17	8.34	10.4
	O.T.	12400	10100	8720	7710	6380
22.5:1 1.5 x 15	Me.HP	1.15	5.43	7.33	8.70	10.9
	Th.HP	1.15	5.43	7.33	8.70	10.9
	O.T.	12800	11100	10200	9300	7790
25:1 2.5 x 10	Me.HP	0.96	5.04	7.07	8.80	11.6
	Th.HP	0.96	5.04	7.07	8.80	11.6
	O.T.	12200	11700	11100	10500	9240
27:1 1.8 x 15	Me.HP	0.97	4.69	6.45	7.82	9.91
	Th.HP	0.97	4.69	6.45	7.82	9.91
	O.T.	12800	11400	10700	9920	8460
30:1 1.5 x 20	Me.HP	0.88	4.16	5.62	6.68	8.40
	Th.HP	0.88	4.16	5.62	6.68	8.40
	O.T.	12400	10900	10100	9190	7670
36:1 1.8 x 20	Me.HP	0.74	3.59	4.94	5.99	7.62
	Th.HP	0.74	3.59	4.94	5.99	7.62
	O.T.	12400	11100	10500	9840	8300
37.5:1 2.5 x 15	Me.HP	0.70	3.54	4.99	6.21	8.26
	Th.HP	0.70	3.54	4.99	6.21	8.26
	O.T.	12800	11800	11200	10800	9620
40:1 4 x 10	Me.HP	0.61	3.18	4.60	5.91	8.47
	Th.HP	0.61	3.18	4.60	5.91	8.47
	O.T.	12100	11700	11400	11100	10600
45:1 1.8 x 25	Me.HP	0.60	2.89	3.99	4.84	6.15
	Th.HP	0.60	2.89	3.99	4.84	6.15
	O.T.	11900	11100	10400	9730	8330
50:1 2.5 x 20	Me.HP	0.54	2.71	3.82	4.76	6.35
	Th.HP	0.54	2.71	3.82	4.76	6.35
	O.T.	12400	11500	11000	10600	9530
54:1 1.8 x 30	Me.HP	0.50	2.42	3.34	4.06	5.16
	Th.HP	0.50	2.42	3.34	4.06	5.16
	O.T.	11400	10400	9740	9190	8010
60:1 4 x 15	Me.HP	0.45	2.35	3.35	4.25	5.98
	Th.HP	0.45	2.35	3.35	4.25	5.98
	O.T.	12800	12300	11900	11600	10900
62.5:1 2.5 x 25	Me.HP	0.44	2.19	3.08	3.84	5.13
	Th.HP	0.44	2.19	3.08	3.84	5.13
	O.T.	11900	11300	11000	10500	9450
72:1 1.8 x 40	Me.HP	0.38	1.82	2.52	3.05	3.88
	Th.HP	0.38	1.82	2.52	3.05	3.88
	O.T.	10300	9790	9360	8840	7650
75:1 2.5 x 30	Me.HP	0.37	1.83	2.58	3.22	4.30
	Th.HP	0.37	1.83	2.58	3.22	4.30
	O.T.	11400	10700	10300	9830	8990
80:1 4 x 20	Me.HP	0.35	1.80	2.56	3.26	4.58
	Th.HP	0.35	1.80	2.56	3.26	4.58
	O.T.	12400	12000	11500	11200	10700
90:1 1.8 x 50	Me.HP	0.31	1.46	2.02	2.45	3.12
	Th.HP	0.31	1.46	2.02	2.45	3.12
	O.T.	9240	9360	9110	8620	7380
100:1 4 x 25	Me.HP	0.28	1.45	2.06	2.63	3.70
	Th.HP	0.28	1.45	2.06	2.63	3.70
	O.T.	11900	11600	11400	11200	10600
108:1 1.8 x 60	Me.HP	0.26	1.22	1.68	2.05	2.60
	Th.HP	0.26	1.22	1.68	2.05	2.60
	O.T.	9100	9010	8640	8180	7110
120:1 4 x 30	Me.HP	0.24	1.21	1.73	2.20	3.10
	Th.HP	0.24	1.21	1.73	2.20	3.10
	O.T.	11400	11000	10700	10500	9920
125:1 2.5 x 50	Me.HP	0.23	1.10	1.56	1.94	2.60
	Th.HP	0.23	1.10	1.56	1.94	2.60
	O.T.	9240	9370	9330	9150	8380
150:1 2.5 x 60	Me.HP	0.20	0.92	1.30	1.62	2.17
	Th.HP	0.20	0.92	1.30	1.62	2.17
	O.T.	9100	9150	8950	8700	7990
160:1 4 x 40	Me.HP	0.18	0.91	1.30	1.66	2.33
	Th.HP	0.18	0.91	1.30	1.66	2.33
	O.T.	10300	10000	9770	9800	9490
200:1 4 x 50	Me.HP	0.15	0.73	1.04	1.33	1.87
	Th.HP	0.15	0.73	1.04	1.33	1.87
	O.T.	9240	9320	9360	9380	9200
240:1 4 x 60	Me.HP	0.13	0.61	0.87	1.11	1.56
	Th.HP	0.13	0.61	0.87	1.11	1.56
	O.T.	9100	9160	9170	9030	8760

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.
All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.
Steeple bearing arrangements follow in this section.
When specified each unit can be supplied with a worm shaft extension located opposite the input end.
Set screw end of hollow shaft is considered the extension end.
Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.
Reducers are designed for shaft rotation in either direction.
For cap and carrier dimensions not shown see mounting section.
For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.
Refer to page 26 for lubrication information, efficiency, and service factors.
Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.
Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
2.9375*	40-S60-215	5/8 X 5/16
2.6875*	40-S60-211	5/8 X 5/16
2.4375*	40-S60-207	5/8 X 5/16
2.1875*	40-S60-203	5/8 X 5/16

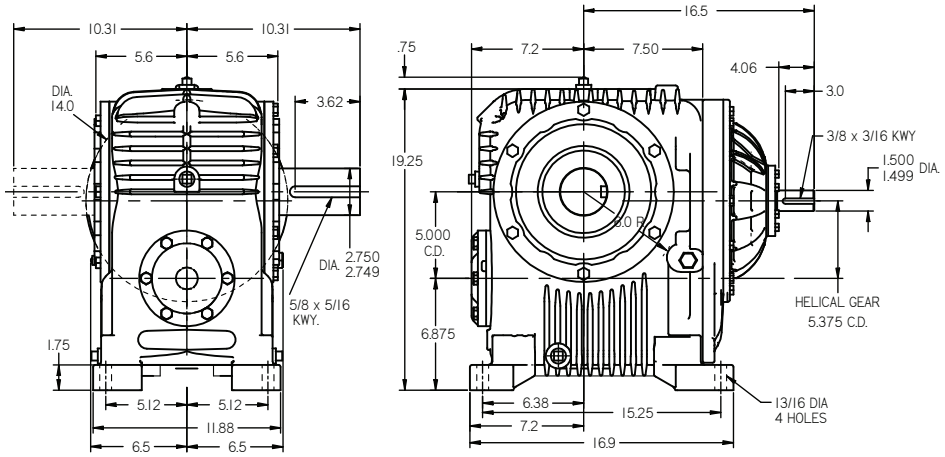
Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducers - 5.000" C.D.

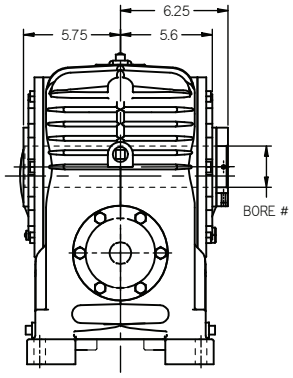
Size 50 - Solid Shaft

Model RU est. net wt. 430 lbs



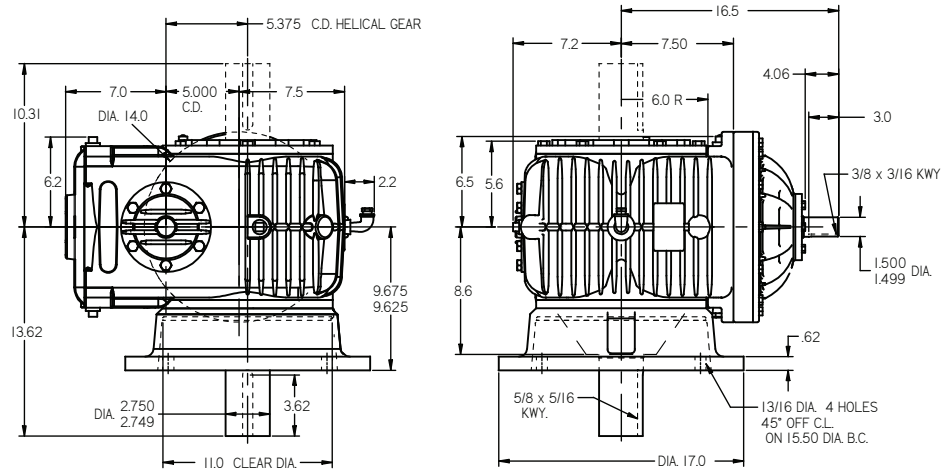
Hollow Shaft

SRU est. net wt. 430 lbs.



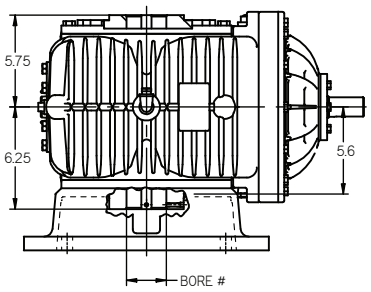
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 460 lbs



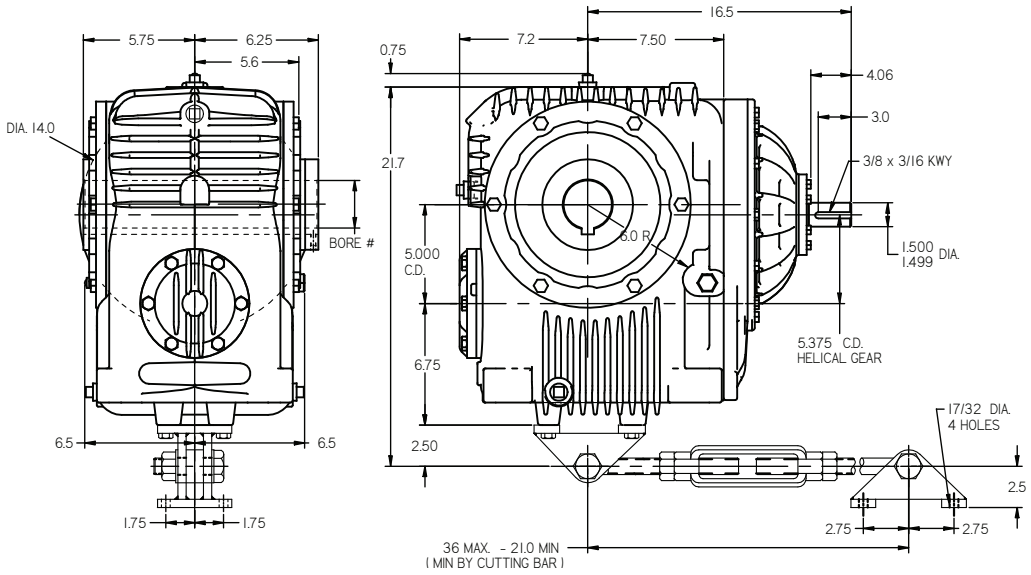
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SRV est. net wt. 460 lbs



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 440 lbs



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

THIS UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 50 5.375" C.D. HELICAL PRI./5.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	3.91	20.8	30.4	39.2	48.8
	Th.HP	3.91	19.8	23.7	24.2	24.8
	O.T.	11000	10300	10100	9900	8140
7.5:1 1.5 x 5	Me.HP	3.23	17.3	25.3	32.7	41.1
	Th.HP	3.23	17.3	20.3	21.4	24.8
	O.T.	13400	12800	12500	12300	10200
9:1 1.8 x 5	Me.HP	2.82	15.2	22.2	28.8	37.6
	Th.HP	2.82	15.2	18.8	20.6	24.8
	O.T.	13900	13500	13200	13000	11200
10:1 1 x 10	Me.HP	3.91	19.3	24.1	28.0	34.3
	Th.HP	3.91	15.1	18.3	20.2	20.5
	O.T.	20600	18400	15500	13800	11200
12.5:1 2.5 x 5	Me.HP	2.27	12.3	18.0	23.4	31.5
	Th.HP	2.27	12.3	16.7	18.4	20.5
	O.T.	15400	15100	14800	14600	13000
15:1 1.5 x 10	Me.HP	3.23	14.9	19.3	22.6	28.3
	Th.HP	3.23	12.7	14.9	17.8	20.2
	O.T.	25000	21000	18400	16400	13700
18:1 1.8 x 10	Me.HP	2.71	12.9	17.3	20.4	25.6
	Th.HP	2.71	11.3	13.7	15.7	19.8
	O.T.	25100	21800	19700	17700	14800
20:1 1 x 20	Me.HP	2.57	10.6	13.2	15.3	18.9
	Th.HP	2.57	10.6	13.2	12.7	13.1
	O.T.	24500	19000	16000	14200	11600
22.5:1 1.5 x 15	Me.HP	2.27	10.5	13.7	16.0	20.1
	Th.HP	2.27	10.5	12.9	14.3	16.9
	O.T.	25200	21400	19100	17100	14300
25:1 2.5 x 10	Me.HP	1.98	9.91	13.7	16.7	21.5
	Th.HP	1.98	9.91	11.5	13.4	17.2
	O.T.	25100	23000	21500	20000	17100
27:1 1.8 x 15	Me.HP	1.91	9.11	12.3	14.5	18.2
	Th.HP	1.91	9.11	11.0	13.0	16.2
	O.T.	25200	22100	20200	18400	15500
30:1 1.5 x 20	Me.HP	1.74	8.04	10.6	12.3	15.4
	Th.HP	1.74	8.04	10.6	12.0	13.2
	O.T.	24500	21000	19000	16900	14100
36:1 1.8 x 20	Me.HP	1.46	6.98	9.40	11.2	14.0
	Th.HP	1.46	6.98	9.40	11.2	12.7
	O.T.	24500	21600	20000	18300	15300
37.5:1 2.5 x 15	Me.HP	1.39	6.97	9.68	11.9	15.3
	Th.HP	1.39	6.97	9.68	10.6	13.4
	O.T.	25200	23300	21800	20500	17800
40:1 4 x 10	Me.HP	1.26	6.59	9.37	11.8	16.2
	Th.HP	1.26	6.30	8.20	9.70	11.70
	O.T.	25100	24100	23200	22200	20300
45:1 1.8 x 25	Me.HP	1.19	5.63	7.59	9.01	11.3
	Th.HP	1.19	5.63	7.59	9.01	11.3
	O.T.	23600	21600	19800	18100	15300
50:1 2.5 x 20	Me.HP	1.07	5.33	7.41	9.10	11.7
	Th.HP	1.07	5.33	7.41	9.10	11.3
	O.T.	24500	22600	21400	20300	17600
54:1 1.8 x 30	Me.HP	1	4.72	6.36	7.55	9.48
	Th.HP	1	4.72	6.36	7.55	9.48
	O.T.	22600	20200	18500	17100	14700
60:1 4 x 15	Me.HP	0.88	4.63	6.60	8.32	11.5
	Th.HP	0.88	4.63	6.60	7.80	10.3
	O.T.	25200	24300	23400	22600	20800
62.5:1 2.5 x 25	Me.HP	0.87	4.30	5.98	7.35	9.49
	Th.HP	0.87	4.30	5.98	7.35	9.49
	O.T.	23600	22400	21300	20100	17500
72:1 1.8 x 40	Me.HP	0.76	3.55	4.79	5.69	7.14
	Th.HP	0.76	3.55	4.79	5.69	7.14
	O.T.	20400	19000	17800	16500	14100
75:1 2.5 x 30	Me.HP	0.73	3.60	5.01	6.16	7.95
	Th.HP	0.73	3.60	5.01	6.16	7.95
	O.T.	22600	21000	19900	18800	16600

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
80:1 4 x 20	Me.HP	0.68	3.54	5.05	6.37	8.79
	Th.HP	0.68	3.54	5.05	6.37	8.79
	O.T.	24500	23600	22700	21900	20500
90:1 1.8 x 50	Me.HP	0.61	2.85	3.84	4.57	5.73
	Th.HP	0.61	2.85	3.84	4.57	5.73
	O.T.	18200	18200	17400	16100	13600
100:1 4 x 25	Me.HP	0.56	2.86	4.07	5.14	7.09
	Th.HP	0.56	2.86	4.07	5.14	7.09
	O.T.	23600	22900	22500	21900	20400
108:1 1.8 x 60	Me.HP	0.52	2.38	3.21	3.81	4.79
	Th.HP	0.52	2.38	3.21	3.81	4.79
	O.T.	17900	17500	16500	15200	13100
120:1 4 x 30	Me.HP	0.47	2.39	3.41	4.3	5.94
	Th.HP	0.47	2.39	3.41	4.3	5.94
	O.T.	22600	21800	21200	20500	19000
125:1 2.5 x 50	Me.HP	0.45	2.18	3.03	3.72	4.81
	Th.HP	0.45	2.18	3.03	3.72	4.81
	O.T.	18200	18500	18100	17500	15500
150:1 2.5 x 60	Me.HP	0.39	1.82	2.53	3.11	4.01
	Th.HP	0.39	1.82	2.53	3.11	4.01
	O.T.	17900	18000	17400	16700	14800
160:1 4 x 40	Me.HP	0.36	1.8	2.57	3.24	4.47
	Th.HP	0.36	1.8	2.57	3.24	4.47
	O.T.	20400	19800	19300	19200	18200
175:1 2.5 x 70	Me.HP	0.33	1.56	2.17	2.67	3.44
	Th.HP	0.33	1.56	2.17	2.67	3.44
	O.T.	17600	17700	17100	16400	14600
200:1 4 x 50	Me.HP	0.29	1.45	2.06	2.6	3.59
	Th.HP	0.29	1.45	2.06	2.6	3.59
	O.T.	18200	18400	18500	18300	17700
240:1 4 x 60	Me.HP	0.25	1.21	1.72	2.17	3.00
	Th.HP	0.25	1.21	1.72	2.17	3.00
	O.T.	17900	18000	18100	17600	16800
280:1 4 x 70	Me.HP	0.22	1.04	1.48	1.86	2.57
	Th.HP	0.22	1.04	1.48	1.86	2.57
	O.T.	17600	17800	17800	17400	16600

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

Set screw end of hollow shaft is considered the extension end.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
3.4375*	50-S60-307	5/8 X 5/16
3.1875*	50-S60-303	5/8 X 5/16
2.750	50-S60-212	5/8 X 5/16

Special hollow gear shaft bore sizes are available at additional cost.

*AGMA Standard Bore Tolerance: +.003, -.000

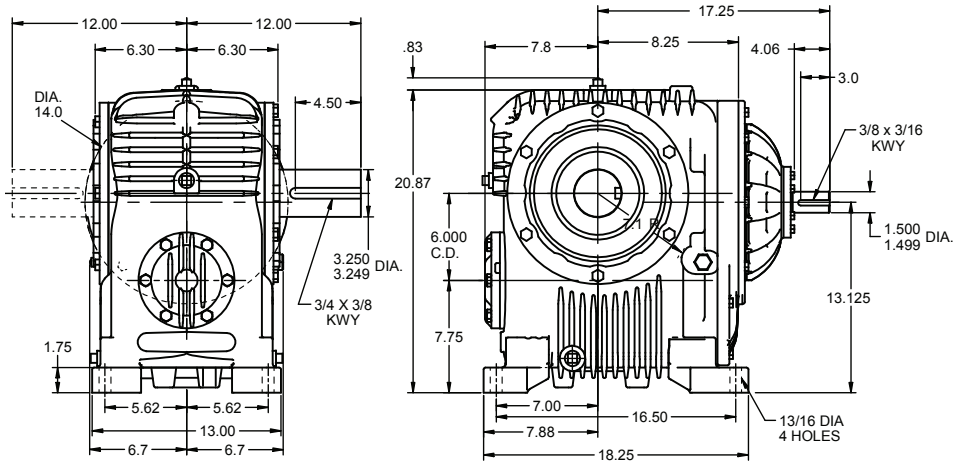
2 set screws at long end of shaft.

Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducers - 6.000" C.D.

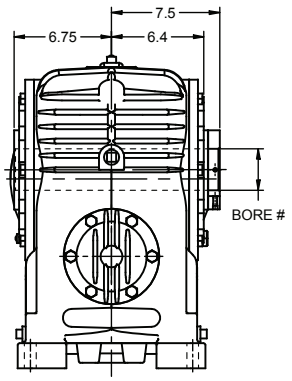
Size 60 Solid Shaft

Model RU est. net wt. 545 lbs



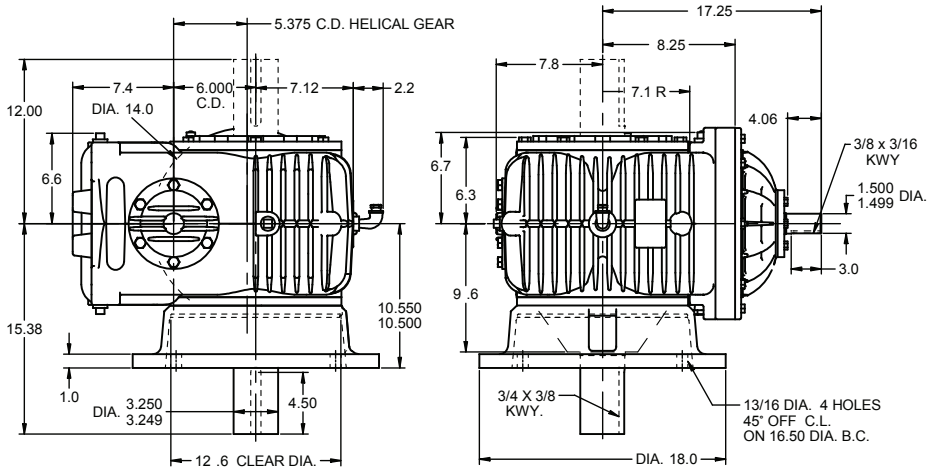
Hollow Shaft

SRU est. net wt. 545 lbs



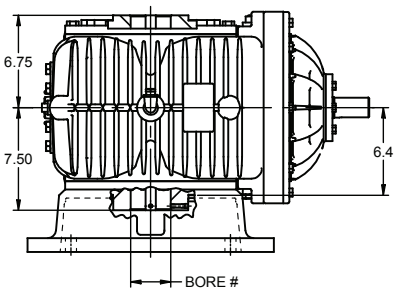
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 580 lbs



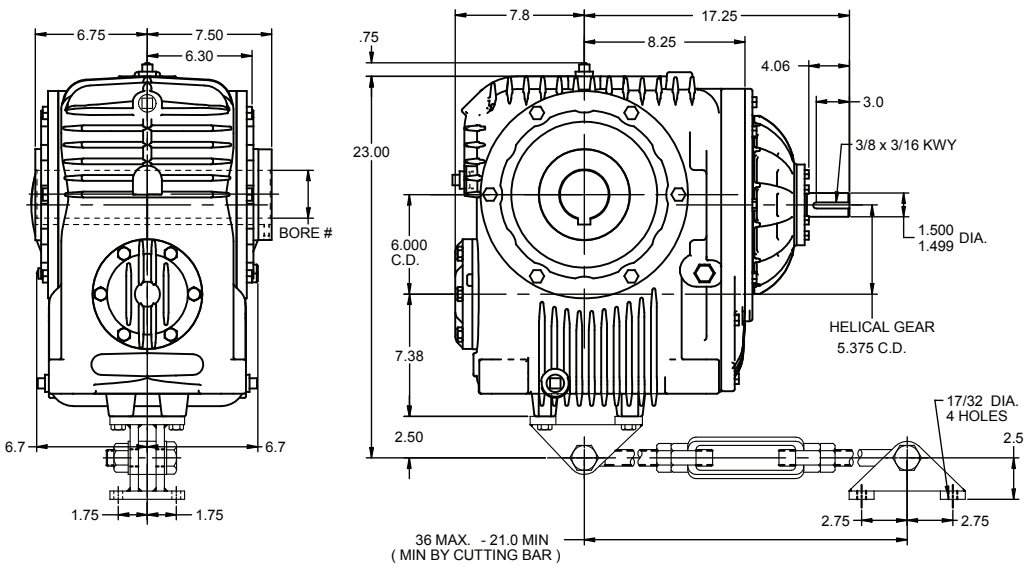
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SRV est. net wt. 580 lbs



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 560 lbs



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

THIS UNIT CAN BE SUPPLIED
WITH SOLID SHAFT,
CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 60 5.375" C.D. HELICAL PRI./6.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	3.91	20.8	30.4	39.2	57.4
	Th.HP	3.91	19.8	25.3	25.8	26.5
	O.T.	11000	10300	10100	9900	9580
7.5:1 1.5 x 5	Me.HP	3.23	17.3	25.3	32.7	48.1
	Th.HP	3.23	17.3	21.6	22.8	26.5
	O.T.	13400	12800	12500	12300	12000
9:1 1.8 x 5	Me.HP	2.82	15.2	22.2	28.8	42.3
	Th.HP	2.82	15.2	20.0	21.9	26.5
	O.T.	13900	13500	13200	13000	12600
10:1 1 x 10	Me.HP	3.91	20.8	30.4	39.2	47.9
	Th.HP	3.91	16.1	19.5	21.5	21.9
	O.T.	20600	19900	19500	19200	15600
12.5:1 2.5 x 5	Me.HP	2.27	12.3	18.0	23.4	34.1
	Th.HP	2.27	12.3	18.0	19.6	22.3
	O.T.	15400	15100	14800	14600	14100
15:1 1.5 x 10	Me.HP	3.23	17.3	25.3	32.5	40.3
	Th.HP	3.23	13.6	15.8	19.0	21.6
	O.T.	25000	24500	24100	23600	19500
18:1 1.8 x 10	Me.HP	2.82	15.2	22.2	28.8	36.9
	Th.HP	2.82	12.1	14.6	16.7	21.1
	O.T.	26100	25600	25300	25000	21300
20:1 1 x 20	Me.HP	3.91	15.2	19	21.9	26.4
	Th.HP	3.91	12.7	13.3	14.3	15.4
	O.T.	37300	27500	23000	20300	16200
22.5:1 1.5 x 15	Me.HP	3.23	15.6	19.8	23.1	28.7
	Th.HP	3.23	11.4	13.8	15.3	18.0
	O.T.	35800	31700	27600	24600	20400
25:1 2.5 x 10	Me.HP	2.27	12.3	18.0	23.4	30.9
	Th.HP	2.27	10.1	12.3	14.2	18.3
	O.T.	28700	28600	28200	27900	24600
27:1 1.8 x 15	Me.HP	2.82	13.7	17.9	20.9	26.2
	Th.HP	2.82	9.46	11.7	13.9	17.2
	O.T.	37400	33200	29600	26500	22300
30:1 1.5 x 20	Me.HP	2.67	11.9	15.2	17.7	22.0
	Th.HP	2.67	9.9	12.2	12.8	14.0
	O.T.	37500	31200	27500	24300	20100
36:1 1.8 x 20	Me.HP	2.24	10.5	13.8	16.1	20.1
	Th.HP	2.24	8.1	10.1	13.6	15.1
	O.T.	37500	32400	29300	26400	21900
37.5:1 2.5 x 15	Me.HP	2.13	10.6	14.5	17.4	22.0
	Th.HP	2.13	7.95	9.93	11.3	14.2
	O.T.	38600	35300	32600	30100	25600
40:1 4 x 10	Me.HP	1.45	7.47	10.8	13.8	19.8
	Th.HP	1.45	6.80	8.80	10.4	12.5
	O.T.	28700	27300	26600	25900	24800
45:1 1.8 x 25	Me.HP	1.82	8.47	11.1	13.0	16.3
	Th.HP	1.82	7.60	9.90	10.5	12.6
	O.T.	36100	32400	29000	26100	22000
50:1 2.5 x 20	Me.HP	1.63	8.10	11.1	13.4	16.9
	Th.HP	1.63	6.80	8.30	9.80	12.1
	O.T.	37500	34300	31900	29800	25300
54:1 1.8 x 30	Me.HP	1.52	7.09	9.31	10.9	13.6
	Th.HP	1.52	6.09	7.18	8.55	10.1
	O.T.	34500	30300	27200	24600	21200
60:1 4 x 15	Me.HP	1.35	7.10	10.0	12.6	16.9
	Th.HP	1.35	5.60	7.10	8.40	11.0
	O.T.	38600	37300	35700	34100	30700
62.5:1 2.5 x 25	Me.HP	1.33	6.54	8.95	10.8	13.6
	Th.HP	1.33	6.05	7.64	8.97	10.5
	O.T.	36100	33900	31900	29600	25100
72:1 1.8 x 40	Me.HP	1.16	5.34	7.01	8.19	10.3
	Th.HP	1.16	5.10	6.30	7.70	8.70
	O.T.	31200	28600	26100	23700	20200
75:1 2.5 x 30	Me.HP	1.12	5.48	7.5	9.05	11.4
	Th.HP	1.12	5.30	6.40	7.10	9.30
	O.T.	34500	31900	29800	27700	23900

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
80:1 4 x 20	Me.HP	1.04	5.43	7.69	9.62	13.0
	Th.HP	1.04	4.60	6.00	6.70	9.40
	O.T.	37500	36200	34600	33100	30300
90:1 1.8 x 50	Me.HP	0.94	4.28	5.63	6.57	8.24
	Th.HP	0.94	4.28	5.63	6.57	7.80
	O.T.	27900	27400	25400	23100	19500
100:1 4 x 25	Me.HP	0.85	4.38	6.2	7.76	10.5
	Th.HP	0.85	3.90	5.40	6.30	8.40
	O.T.	36100	35100	34200	33000	30000
108:1 1.8 x 60	Me.HP	0.79	3.58	4.70	5.49	6.88
	Th.HP	0.79	3.58	4.70	5.49	6.78
	O.T.	27500	26400	24100	21900	18800
120:1 4 x 30	Me.HP	0.72	3.67	5.20	6.50	8.77
	Th.HP	0.72	3.50	4.60	5.30	6.80
	O.T.	34500	33400	32200	31000	28100
125:1 2.5 x 50	Me.HP	0.69	3.31	4.53	5.47	6.90
	Th.HP	0.69	3.31	4.53	5.47	6.90
	O.T.	27900	28000	27100	25800	22300
150:1 2.5 x 60	Me.HP	0.59	2.76	3.78	4.57	5.77
	Th.HP	0.59	2.76	3.78	4.57	5.77
	O.T.	27500	27400	26000	24500	21200
160:1 4 x 40	Me.HP	0.56	2.76	3.91	4.89	6.60
	Th.HP	0.56	2.60	3.40	4.20	5.80
	O.T.	31200	30300	29400	28900	26900
175:1 2.5 x 70	Me.HP	0.51	2.37	3.25	3.92	4.95
	Th.HP	0.51	2.37	3.25	3.92	4.95
	O.T.	27000	27000	25600	24100	21000
200:1 4 x 50	Me.HP	0.45	2.22	3.14	3.92	5.30
	Th.HP	0.45	2.10	2.90	3.60	5.10
	O.T.	27900	28100	28100	27700	26000
240:1 4 x 60	Me.HP	0.39	1.85	2.62	3.28	4.42
	Th.HP	0.39	1.85	2.50	3.10	4.40
	O.T.	27500	27700	27600	26700	24800
280:1 4 x 70	Me.HP	0.33	1.59	2.25	2.81	3.80
	Th.HP	0.33	1.50	2.10	2.70	3.80
	O.T.	27000	27200	27200	26300	24400

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.
All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.
Steeple bearing arrangements follow in this section.
When specified each unit can be supplied with a worm shaft extension located opposite the input end.
Set screw end of hollow shaft is considered the extension end.
Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.
Reducers are designed for shaft rotation in either direction.
For cap and carrier dimensions not shown see mounting section.
For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.
Refer to page 26 for lubrication information, efficiency, and service factors.
Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.
Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
3.9375*	60-S60-315	3/4 X 3/8
3.4375*	60-S60-307	3/4 X 3/8
2.9375*	60-S60-215	3/4 X 3/8

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

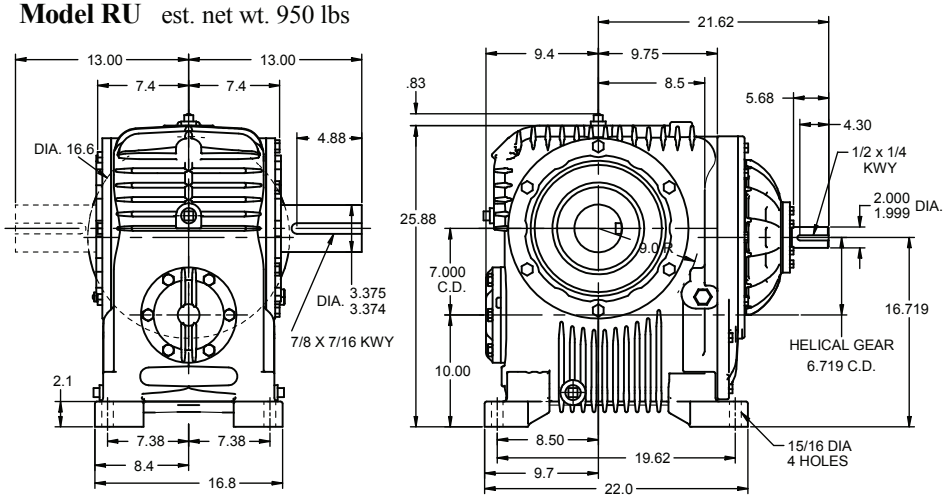
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducers - 7.000" C.D.

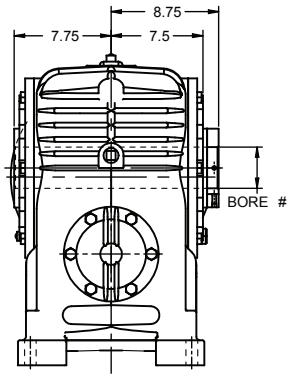
Size 70 Solid Shaft

Hollow Shaft

Model RU est. net wt. 950 lbs

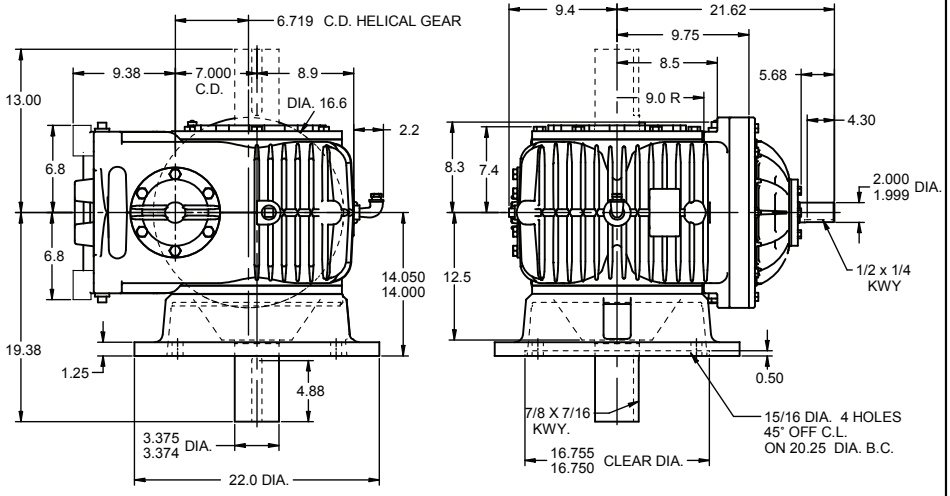


SRU est. net wt. 950 lbs



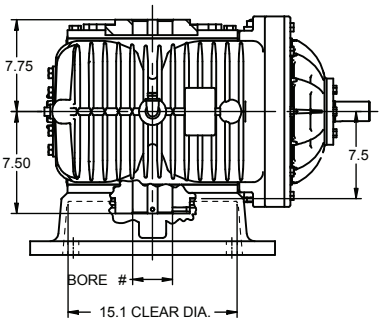
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 1000 lbs



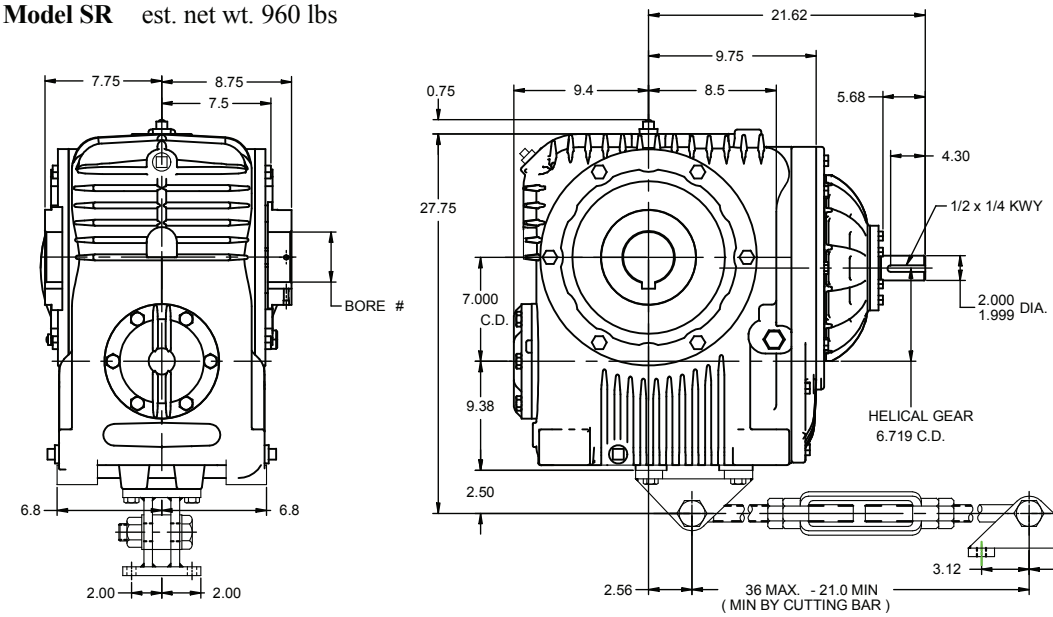
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SRV est. net wt. 1000 lbs



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 960 lbs



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

THIS UNIT CAN BE SUPPLIED
WITH SOLID SHAFT,
CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 70 6.719" C.D. HELICAL PRI./7.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	9.23	48.8	70.9	86.2	99.4
	Th.HP	8.77	31.1	36.6	37.3	38.2
	O.T.	25900	24200	23600	21800	16600
7.5:1 1.5 x 5	Me.HP	7.24	38.6	56.2	71.5	86.7
	Th.HP	7.24	27.9	31.2	32.9	38.2
	O.T.	30000	28500	27900	26900	21600
9:1 1.8 x 5	Me.HP	6.67	35.7	52.0	65.1	80.5
	Th.HP	5.24	24.6	28.9	31.7	38.2
	O.T.	33000	31600	30900	29400	24000
10:1 1 x 10	Me.HP	9.23	42.4	52.7	60.5	70.6
	Th.HP	9.23	23.3	28.1	31.1	31.6
	O.T.	48500	40400	33900	29700	23000
12.5:1 2.5 x 5	Me.HP	5.37	28.9	42.3	54.2	68.4
	Th.HP	4.73	20.1	25.7	28.3	32.2
	O.T.	36400	35500	34700	33800	28200
15:1 1.5 x 10	Me.HP	7.24	33.9	42.4	49.3	61.0
	Th.HP	6.38	19.6	22.9	27.4	31.1
	O.T.	56100	47900	40400	35800	29500
18:1 1.8 x 10	Me.HP	6.57	30.0	38.5	44.7	55.7
	Th.HP	4.18	17.4	21.1	24.1	30.5
	O.T.	60600	50700	43800	38800	32100
20:1 1 x 20	Me.HP	6.21	23.2	28.9	33.2	39.1
	Th.HP	6.21	18.3	19.2	20.7	22.2
	O.T.	59200	41900	35100	30700	24000
22.5:1 1.5 x 15	Me.HP	5.50	24.1	30.2	35.1	43.5
	Th.HP	5.50	16.5	19.9	22.0	26.0
	O.T.	61100	49100	42100	37500	31000
25:1 2.5 x 10	Me.HP	4.80	23.5	31.6	37.4	46.9
	Th.HP	3.59	14.5	17.7	20.6	26.4
	O.T.	60600	54600	49500	44700	37300
27:1 1.8 x 15	Me.HP	4.61	21.3	27.4	31.9	39.7
	Th.HP	3.82	13.7	16.9	20.1	24.9
	O.T.	61100	51600	45300	40400	33900
30:1 1.5 x 20	Me.HP	4.22	18.5	23.2	27.0	33.4
	Th.HP	4.22	14.2	17.6	18.4	20.3
	O.T.	59200	48200	41900	37100	30500
36:1 1.8 x 20	Me.HP	3.54	16.3	21.0	24.5	30.5
	Th.HP	3.19	11.7	14.6	18.4	19.6
	O.T.	59200	50400	44800	40100	33300
37.5:1 2.5 x 15	Me.HP	3.36	16.6	22.4	26.6	33.5
	Th.HP	3.19	11.5	14.4	16.4	20.5
	O.T.	61100	55500	50500	46100	39000
40:1 4 x 10	Me.HP	3.06	16.0	22.4	27.7	36.4
	Th.HP	2.40	9.80	12.6	15.0	18.0
	O.T.	60600	58500	55300	52200	45600
45:1 1.8 x 25	Me.HP	2.87	13.2	17.0	19.8	24.7
	Th.HP	2.87	11.0	14.3	15.2	18.2
	O.T.	57000	50400	44400	39700	33400
50:1 2.5 x 20	Me.HP	2.59	12.7	17.2	20.4	25.7
	Th.HP	2.59	9.80	12.0	14.2	17.4
	O.T.	59200	53800	49500	45600	38600
54:1 1.8 x 30	Me.HP	2.41	11.0	14.3	16.6	20.7
	Th.HP	2.41	8.80	10.4	12.4	14.6
	O.T.	54700	47200	41600	37600	32200
60:1 4 x 15	Me.HP	2.14	11.2	15.8	19.6	25.9
	Th.HP	2.00	8.00	10.3	12.1	15.9
	O.T.	61100	59000	56100	53300	47000
62.5:1 2.5 x 25	Me.HP	2.11	10.3	13.9	16.5	20.8
	Th.HP	2.11	8.74	11.0	13.0	15.1
	O.T.	57000	53300	49500	45200	38300
72:1 1.8 x 40	Me.HP	1.84	8.31	10.7	12.5	15.6
	Th.HP	1.84	7.40	9.10	11.1	12.6
	O.T.	49400	44600	39900	36100	30700
75:1 2.5 x 30	Me.HP	1.77	8.61	11.7	13.9	17.4
	Th.HP	1.77	7.70	9.30	10.3	13.4
	O.T.	54700	50200	46300	42300	36400
80:1 4 x 20	Me.HP	1.65	8.60	12.1	15	19.9
	Th.HP	1.58	6.70	8.60	9.90	13.6
	O.T.	59200	57300	54400	51600	46400
90:1 1.8 x 50	Me.HP	1.48	6.67	8.61	10.0	12.5
	Th.HP	1.48	6.40	8.40	9.9	11.2
	O.T.	44100	42700	38900	35300	29600
100:1 4 x 25	Me.HP	1.35	6.93	9.75	12.1	16.1
	Th.HP	1.30	5.70	7.70	9.10	12.2
	O.T.	57000	55600	53700	51700	46100
108:1 1.8 x 60	Me.HP	1.25	5.57	7.19	8.37	10.5
	Th.HP	1.22	5.30	6.98	8.31	9.79
	O.T.	43400	41000	36900	33500	28600
120:1 4 x 30	Me.HP	1.13	5.81	8.17	10.2	13.5
	Th.HP	1.13	5.00	6.60	7.70	9.90
	O.T.	54700	52900	50700	48400	43200
125:1 2.5 x 50	Me.HP	1.10	5.20	7.04	8.38	10.5
	Th.HP	1.10	5.09	6.60	7.85	10.1
	O.T.	44100	44100	42100	39400	34000
150:1 2.5 x 60	Me.HP	0.93	4.34	5.88	6.99	8.79
	Th.HP	0.93	4.34	5.88	6.99	8.79
	O.T.	43400	43000	40400	37500	32400
160:1 4 x 40	Me.HP	0.88	4.37	6.14	7.65	10.1
	Th.HP	0.88	3.80	5.0	6.10	8.30
	O.T.	49400	47900	46200	45200	41300
175:1 2.5 x 70	Me.HP	0.80	3.72	5.04	6.00	7.55
	Th.HP	0.80	3.72	5.04	6.00	7.55
	O.T.	42700	42400	39800	36900	32000
200:1 4 x 50	Me.HP	0.71	3.51	4.93	6.14	8.14
	Th.HP	0.71	3.00	4.20	5.20	7.30
	O.T.	44100	44600	44200	43300	40000
240:1 4 x 60	Me.HP	0.61	2.93	4.12	5.13	6.80
	Th.HP	0.61	2.50	3.60	4.40	6.40
	O.T.	43400	43800	43300	41700	38100
280:1 4 x 70	Me.HP	0.53	2.51	3.53	4.40	5.84
	Th.HP	0.53	2.10	3.00	3.90	5.80
	O.T.	42700	43100	42700	41100	37500

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

Set screw end of hollow shaft is considered the extension end.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
4.4375*	80-S60-407	1 X 1/2
3.9375*	80-S60-315	1 X 1/2

Special hollow gear shaft bore sizes are available at additional cost.

*AGMA Standard Bore Tolerance: +.003, -.000

2 set screws at long end of shaft.

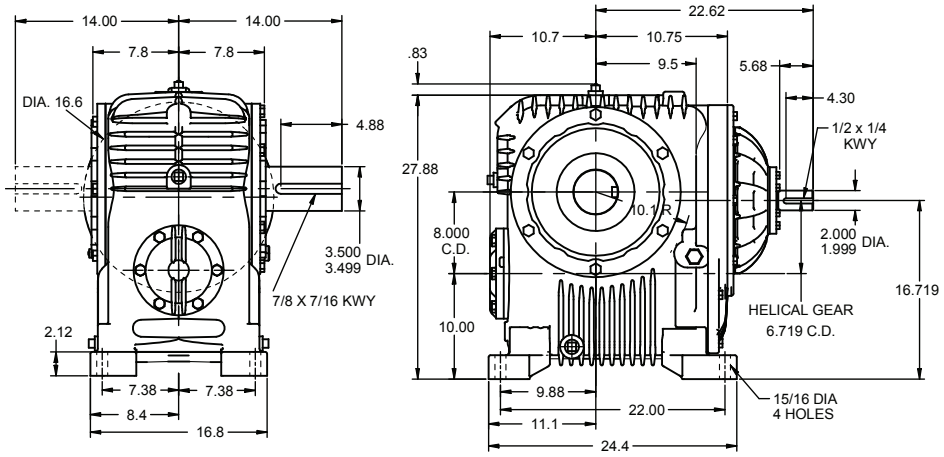
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducers - 8.000" C.D.

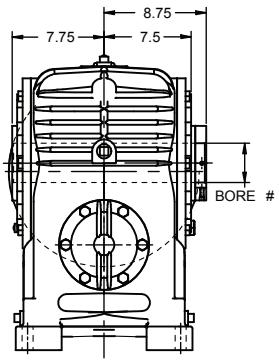
Size 80 Solid Shaft

Hollow Shaft

Model RU est. net wt. 1080 lbs

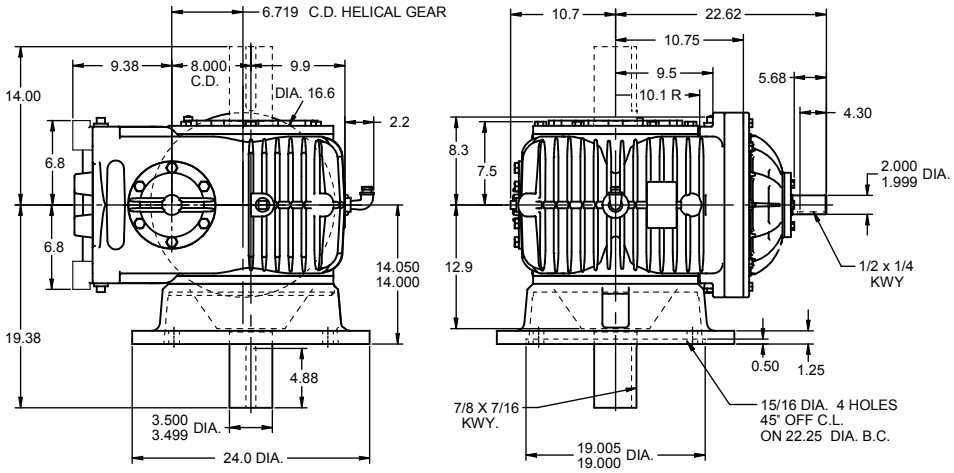


SRU est. net wt. 1080 lbs.



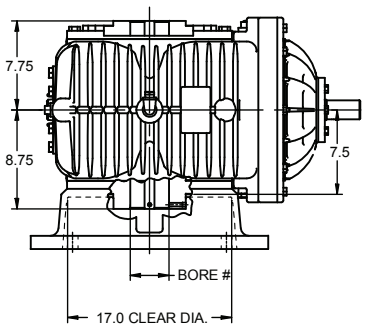
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model RV est. net wt. 1150 lbs



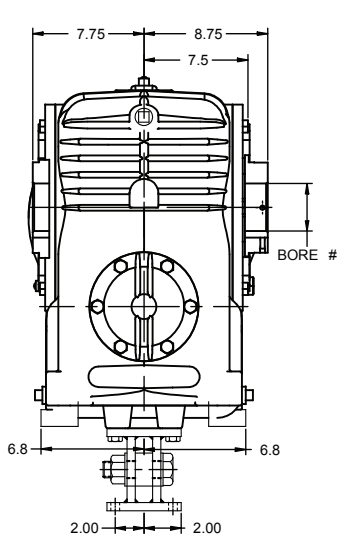
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

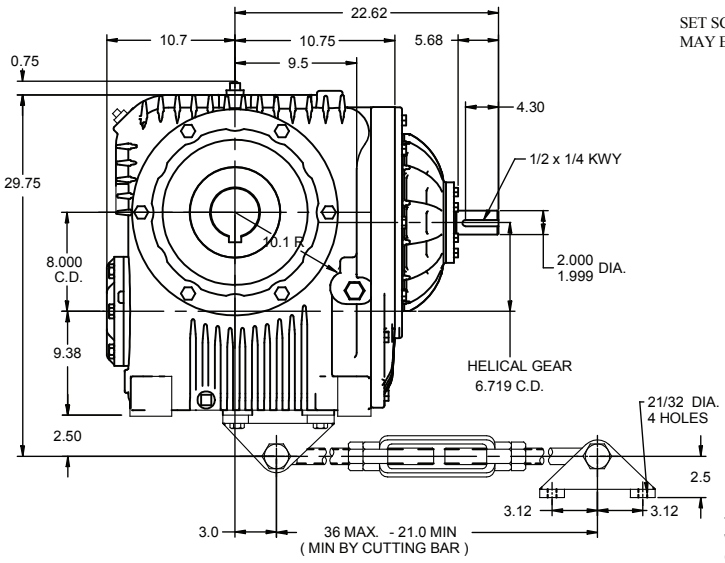
SRV est. net wt. 1150 lbs



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SR est. net wt. 1100 lbs





SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

THIS UNIT CAN BE SUPPLIED
WITH SOLID SHAFT,
CONTACT CONE DRIVE

Cone Drive Helical/Worm Speed Reducer

Size 80 6.719" C.D. HELICAL PRI./8.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	9.23	48.8	70.9	91.4	134
	Th.HP	8.77	33.4	39.2	40.0	41.0
	O.T.	25900	24200	23600	23100	22300
7.5:1 1.5 x 5	Me.HP	7.24	38.6	56.2	72.6	106
	Th.HP	7.03	29.9	33.5	35.3	41.0
	O.T.	30000	28500	27900	27300	26400
9:1 1.8 x 5	Me.HP	6.67	35.7	52	67.2	98.6
	Th.HP	5.61	26.4	31.0	33.9	41.0
	O.T.	33000	31600	30900	30300	29400
10:1 1 x 10	Me.HP	9.23	48.8	70.9	87.8	102
	Th.HP	8.77	25.0	30.1	33.3	33.9
	O.T.	48500	46500	45600	43100	33200
12.5:1 2.5 x 5	Me.HP	5.37	28.9	42.3	54.2	77.1
	Th.HP	5.37	21.5	27.5	30.4	34.5
	O.T.	36400	35500	34700	33800	31800
15:1 1.5 x 10	Me.HP	7.24	38.6	56.2	71.9	88.3
	Th.HP	6.84	21.0	24.5	29.4	33.4
	O.T.	56100	54500	53500	52300	42700
18:1 1.8 x 10	Me.HP	6.67	35.7	52.0	65.2	81.0
	Th.HP	4.48	18.7	22.6	25.9	32.7
	O.T.	61600	60100	59200	56600	46800
20:1 1 x 20	Me.HP	9.23	34.0	42.2	48.5	56.4
	Th.HP	6.88	19.7	20.6	22.2	23.9
	O.T.	88000	61300	51200	44900	34600
22.5:1 1.5 x 15	Me.HP	7.24	35.4	44.2	51.4	63.4
	Th.HP	6.04	17.7	21.3	23.6	27.9
	O.T.	80400	72100	61500	54900	45200
25:1 2.5 x 10	Me.HP	5.37	28.9	42.3	54.2	68.5
	Th.HP	3.85	15.6	19.0	22.1	28.3
	O.T.	67900	67100	66200	64800	54400
27:1 1.8 x 15	Me.HP	6.67	31.4	40.1	46.6	58
	Th.HP	4.1	14.7	18.1	21.5	26.7
	O.T.	88300	76200	66300	59100	49500
30:1 1.5 x 20	Me.HP	6.29	27.1	34.0	39.5	48.8
	Th.HP	5.30	15.3	18.9	19.8	21.7
	O.T.	88500	70900	61300	54200	44500
36:1 1.8 x 20	Me.HP	5.29	24.1	30.8	35.8	44.5
	Th.HP	3.43	12.5	15.7	21.0	22.0
	O.T.	88500	74400	65600	58700	48600
37.5:1 2.5 x 15	Me.HP	5.02	24.7	33.1	39	48.9
	Th.HP	3.42	12.3	15.4	17.6	22
	O.T.	91200	82400	74500	67600	57000
40:1 4 x 10	Me.HP	3.36	17.1	24.6	31.3	44.9
	Th.HP	2.58	11.8	14.4	17.2	20.2
	O.T.	66600	62700	60700	59000	56300
45:1 1.8 x 25	Me.HP	4.29	19.5	24.9	28.9	36.0
	Th.HP	3.04	11.8	15.4	16.3	19.5
	O.T.	85200	74500	65100	58100	48800
50:1 2.5 x 20	Me.HP	3.86	18.9	25.4	30.0	37.6
	Th.HP	2.89	10.5	12.9	15.2	18.7
	O.T.	88500	79900	73000	66900	56400
54:1 1.8 x 30	Me.HP	3.60	16.3	20.9	24.3	30.2
	Th.HP	2.75	9.44	11.1	13.2	15.6
	O.T.	81600	69800	60900	55000	47000
60:1 4 x 15	Me.HP	3.19	16.8	23.5	29.0	37.9
	Th.HP	2.15	8.60	11.0	12.9	17.1
	O.T.	91200	88100	83400	78800	68900
62.5:1 2.5 x 25	Me.HP	3.15	15.3	20.5	24.2	30.4
	Th.HP	2.54	9.37	11.8	13.9	16.2
	O.T.	85200	79200	72900	66300	56000
72:1 1.8 x 40	Me.HP	2.74	12.3	15.7	18.3	22.8
	Th.HP	2.30	7.90	9.80	11.9	13.5
	O.T.	73800	65900	58600	52900	44900
75:1 2.5 x 30	Me.HP	2.64	12.8	17.2	20.3	25.5
	Th.HP	1.98	8.20	10.0	11.1	14.4
	O.T.	81600	74600	68300	62100	53300

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
80:1 4 x 20	Me.HP	2.46	12.8	18.0	22.3	29.1
	Th.HP	1.69	7.20	9.20	10.3	14.6
	O.T.	88500	85500	80900	76500	68000
90:1 1.8 x 50	Me.HP	2.21	9.86	12.6	14.7	18.3
	Th.HP	1.62	6.90	9.00	10.6	12.1
	O.T.	65900	63100	57000	51600	43300
100:1 4 x 25	Me.HP	2.02	10.4	14.5	18.0	23.5
	Th.HP	1.39	6.10	8.30	9.70	13.1
	O.T.	85200	83100	80000	76500	67600
108:1 1.8 x 60	Me.HP	1.87	8.24	10.6	12.3	15.3
	Th.HP	1.31	5.68	7.72	9.08	10.5
	O.T.	64900	60700	54100	49000	41700
120:1 4 x 30	Me.HP	1.69	8.68	12.2	15.1	19.8
	Th.HP	1.23	5.40	7.10	8.30	10.6
	O.T.	81600	78900	75400	71800	63300
125:1 2.5 x 50	Me.HP	1.64	7.72	10.4	12.3	15.4
	Th.HP	1.54	5.45	7.07	8.42	10.8
	O.T.	65900	65500	62100	57800	49700
150:1 2.5 x 60	Me.HP	1.40	6.45	8.66	10.3	12.9
	Th.HP	1.31	4.64	6.35	7.39	9.46
	O.T.	64900	63900	59600	55000	47400
160:1 4 x 40	Me.HP	1.31	6.53	9.15	11.3	14.9
	Th.HP	0.96	4.00	5.40	6.50	9.00
	O.T.	73800	71600	68700	67100	60600
175:1 2.5 x 70	Me.HP	1.20	5.53	7.43	8.80	11.1
	Th.HP	1.15	4.20	6.20	7.20	9.30
	O.T.	63800	63000	58600	54200	46800
200:1 4 x 50	Me.HP	1.06	5.24	7.34	9.10	11.9
	Th.HP	0.79	3.20	4.50	5.60	7.80
	O.T.	65900	66600	65800	64200	58700
240:1 4 x 60	Me.HP	0.92	4.37	6.13	7.60	9.97
	Th.HP	0.72	2.70	3.80	4.70	6.90
	O.T.	64900	65400	64500	61800	55900
280:1 4 x 70	Me.HP	0.79	3.75	5.26	6.52	8.56
	Th.HP	0.69	2.30	3.20	4.20	6.30
	O.T.	63800	64400	63500	60900	55000

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.
All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.
Steeple bearing arrangements follow in this section.
When specified each unit can be supplied with a worm shaft extension located opposite the input end.
Set screw end of hollow shaft is considered the extension end.
Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.
Reducers are designed for shaft rotation in either direction.
For cap and carrier dimensions not shown see mounting section.
For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.
Refer to page 26 for lubrication information, efficiency, and service factors.
Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.
Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
4.4375*	80-S60-407	1 X 1/2
3.9375*	80-S60-315	1 X 1/2

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

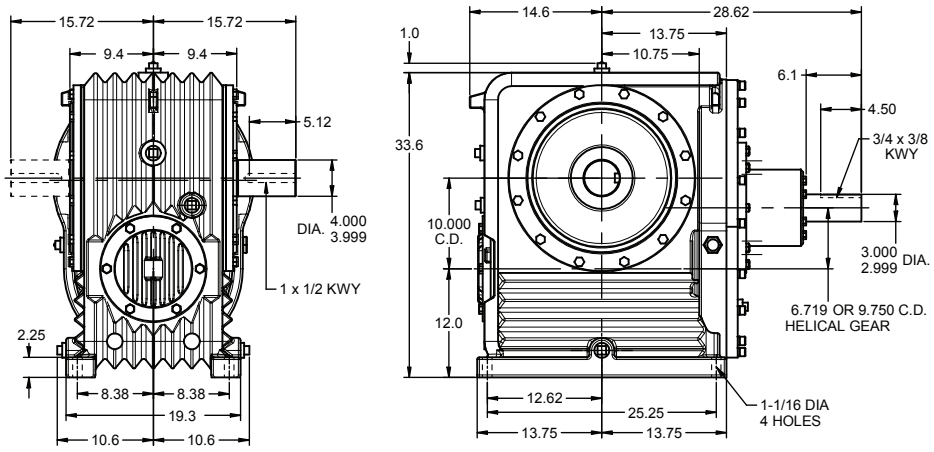
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducers - 10.000" C.D.

Size 100 Solid Shaft

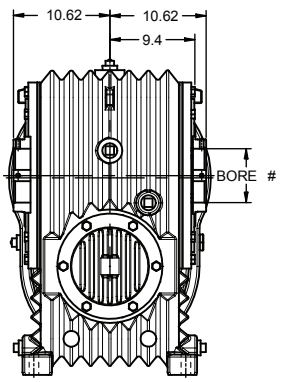
Model RU est. net wt. 1650 lbs

100 - 9.750 C.D. HELICALS
100 L - 6.719 C.D. HELICALS



Hollow Shaft

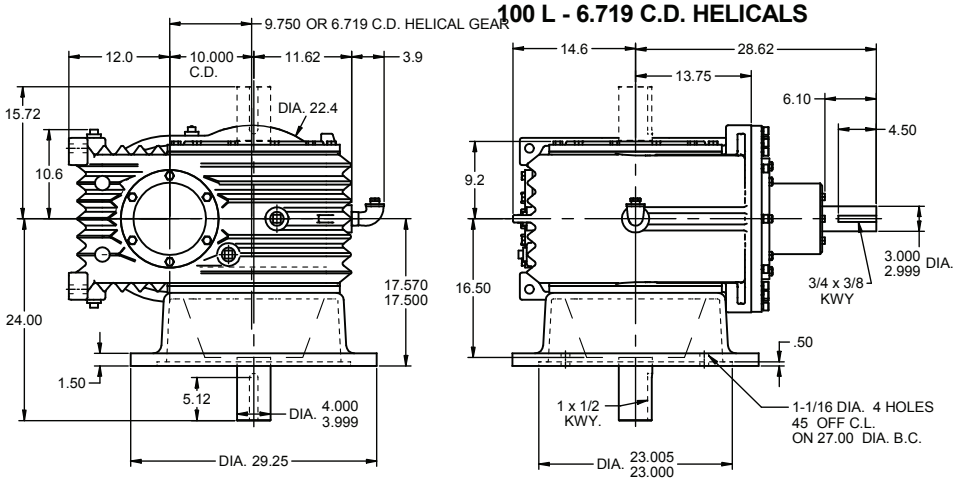
SRU est. net wt. 1650 lbs.



SEE GEAR SHAFT CHART

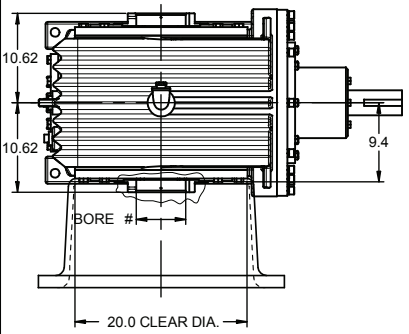
Model RV est. net wt. 1725 lbs

100 - 9.750 C.D. HELICALS
100 L - 6.719 C.D. HELICALS



SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

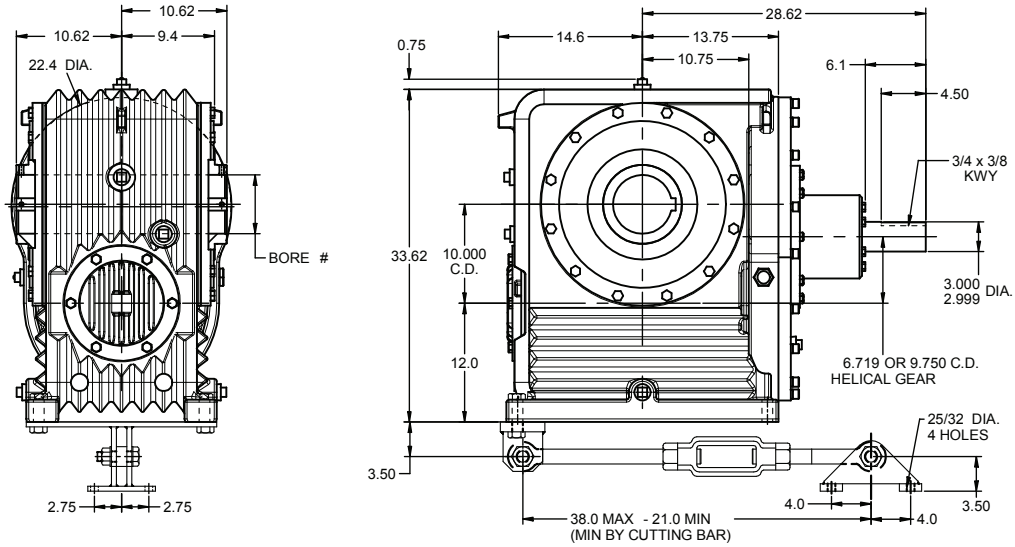
SRV est. net wt. 1725 lbs



SEE GEAR SHAFT CHART

Model SR est. net wt. 1700 lbs

100 - 9.750 C.D. HELICALS
100 L - 6.719 C.D. HELICALS



SEE GEAR SHAFT CHART

NOTE: HOLLOW SHAFT IS DOUBLE EXTENDED.

THIS UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

TORQUE ARM BRACKET CAN BE MOUNTED ON EITHER END OF HOUSING.

Cone Drive Helical/Worm Speed Reducer

Size 100 6.719" or 9.750"C.D. HELICAL PRI./10.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

UNITS WITH 6.719" C.D. HELICALS						
TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
20:1 1 x 20	Me.HP	9.23	48.8	70.9	82.3	94.7
	Th.HP	8.30	24.1	25.3	27.4	29.7
	O.T.	90200	90000	88100	77900	59500
30:1 1.5 x 20	Me.HP	7.24	38.6	56.2	68.5	82.8
	Th.HP	6.40	18.5	23.2	24.3	26.9
	O.T.	104000	103000	104000	96300	77300
45:1 1.8 x 25	Me.HP	6.67	34.8	43.4	50.5	62.2
	Th.HP	3.60	14.1	18.7	19.8	24.0
	O.T.	136000	136000	116000	104000	86100
50:1 2.5 x 20	Me.HP	5.37	28.9	42.3	52.3	65.5
	Th.HP	3.50	12.6	15.5	18.5	22.9
	O.T.	126000	125000	125000	119000	101000
54:1 1.8 x 30	Me.HP	6.67	29.2	36.5	42.3	52.9
	Th.HP	3.00	11.4	13.5	16.3	19.3
	O.T.	156000	128000	109000	98400	83000
62.5:1 2.5 x 25	Me.HP	5.37	28	36.3	42.3	52.9
	Th.HP	3.00	11.4	14.6	17.3	20.3
	O.T.	149000	149000	132000	119000	99900
72:1 1.8 x 40	Me.HP	5.15	22	27.5	31.9	39.3
	Th.HP	2.70	9.20	11.5	14.1	16.0
	O.T.	143000	121000	105000	94700	79400
75:1 2.5 x 30	Me.HP	4.95	23.4	30.5	35.5	44.4
	Th.HP	2.30	9.70	11.7	13.1	17.3
	O.T.	158000	140000	124000	111000	95200
90:1 1.8 x 50	Me.HP	4.15	17.6	22	25.6	31.6
	Th.HP	1.90	8.00	10.6	12.5	14.2
	O.T.	128000	116000	102000	92500	76700
100:1 4 x 25	Me.HP	3.36	17.1	24.6	31.3	41.2
	Th.HP	1.60	7.10	9.80	11.6	15.7
	O.T.	146000	141000	139000	137000	121000
108:1 1.8 x 60	Me.HP	3.51	14.7	18.4	21.4	26.4
	Th.HP	1.50	6.70	9.20	10.9	12.6
	O.T.	126000	112000	97200	87900	74000
120:1 4 x 30	Me.HP	3.17	16.2	22.4	27.1	34.5
	Th.HP	1.40	6.30	8.30	9.70	12.5
	O.T.	158000	152000	142000	133000	114000
125:1 2.5 x 50	Me.HP	3.07	14.2	18.4	21.5	26.9
	Th.HP	1.80	6.50	8.40	10.1	13.1
	O.T.	128000	124000	113000	104000	89100
150:1 2.5 x 60	Me.HP	2.61	11.8	15.4	17.9	22.5
	Th.HP	1.50	5.50	7.50	8.80	11.4
	O.T.	126000	121000	109000	98900	85100
160:1 4 x 40	Me.HP	2.46	12.2	16.8	20.4	26
	Th.HP	1.10	4.70	5.90	7.60	10.5
	O.T.	143000	138000	130000	124000	109000
175:1 2.5 x 70	Me.HP	2.25	10.2	13.2	15.4	19.3
	Th.HP	1.60	4.80	7.10	8.40	10.9
	O.T.	124000	119000	107000	97500	84000
200:1 4 x 50	Me.HP	1.99	9.79	13.5	16.4	20.9
	Th.HP	0.90	3.70	5.20	6.50	9.10
	O.T.	128000	128000	125000	119000	106000
240:1 4 x 60	Me.HP	1.71	8.17	11.3	13.7	17.4
	Th.HP	0.80	3.10	4.40	5.40	8.00
	O.T.	126000	126000	122000	115000	101000
280:1 4 x 70	Me.HP	1.48	7.01	9.67	11.8	15.0
	Th.HP	0.80	2.60	3.70	4.80	7.20
	O.T.	124000	125000	121000	113000	99200

UNITS WITH 9.750" C.D. HELICALS*						
TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
5:1 1 x 5	Me.HP	34.9	151	182	199	231
	Th.HP	16.3	44.5	53.2	54.3	55.7
	O.T.	102000	78200	63000	52200	40200
7.5:1 1.5 x 5	Me.HP	28.4	124	153	174	201
	Th.HP	11.0	39.8	44.6	47.1	55.7
	O.T.	120000	93500	77400	66900	51100
9:1 1.8 x 5	Me.HP	25.4	112	139	160	189
	Th.HP	7.10	35.2	41.3	45.2	55.7
	O.T.	128000	102000	84600	73800	57500
10:1 1 x 10	Me.HP	31.8	107	131	148	170
	Th.HP	12.2	31.6	39.0	43.7	44.4
	O.T.	174000	106000	88000	75500	57800
12.5:1 2.5 x 5	Me.HP	20.6	94.2	118	137	169
	Th.HP	6.50	28.2	36.7	40.4	46
	O.T.	142000	117000	98100	86500	70500
15:1 1.5 x 10	Me.HP	21.9	87	108	125	149
	Th.HP	8.50	26.4	31.1	38.0	43.8
	O.T.	174000	126000	105000	92600	73700
18:1 1.8 x 10	Me.HP	18.4	78.6	98.0	114	139
	Th.HP	5.50	23.4	28.6	33.1	42.9
	O.T.	174000	136000	114000	101000	82200
22.5:1 1.5 x 15	Me.HP	15.4	62	77.1	89	107
	Th.HP	7.40	21.7	26.6	29.6	35.7
	O.T.	175000	129000	110000	97300	78200
25:1 2.5 x 10	Me.HP	13.6	64.2	82.8	96.2	120
	Th.HP	4.70	19.4	23.8	27.9	36.7
	O.T.	174000	151000	131000	117000	96800
27:1 1.8 x 15	Me.HP	12.9	56	69.9	81.2	99.8
	Th.HP	5.00	18.4	23.0	27.7	35.0
	O.T.	175000	139000	118000	105000	87000
36:1 1.8 x 20	Me.HP	9.93	43	53.7	62.4	76.8
	Th.HP	4.10	15.0	19.0	25.8	26.0
	O.T.	170000	136000	117000	105000	85700
37.5:1 2.5 x 15	Me.HP	9.50	45.5	58.9	68.6	85.8
	Th.HP	4.20	15.4	19.40	22.3	28.3
	O.T.	175000	154000	135000	121000	101000
40:1 4 x 10	Me.HP	8.56	44.4	60.9	73.6	92.9
	Th.HP	3.10	12.9	16.9	20.2	24.3
	O.T.	174000	166000	154000	142000	119000
60:1 4 x 15	Me.HP	59.9	31.3	43.1	52.2	65.3
	Th.HP	2.60	10.4	13.3	15.8	21.1
	O.T.	175000	168000	157000	145000	123000
80:1 4 x 20	Me.HP	4.62	24	33	40.1	50.9
	Th.HP	2.00	8.50	11.0	12.9	17.7
	O.T.	170000	164000	152000	141000	122000

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
5.9375	100-S61-515	1-1/4 X 7/16

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.004, -.000
2 set screws at long end of shaft.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

All units can be motorized. VR & SVR units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All RV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

When specified each unit can be supplied with a worm shaft extension located opposite the input end. Set screw end of hollow shaft is considered the extension end.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

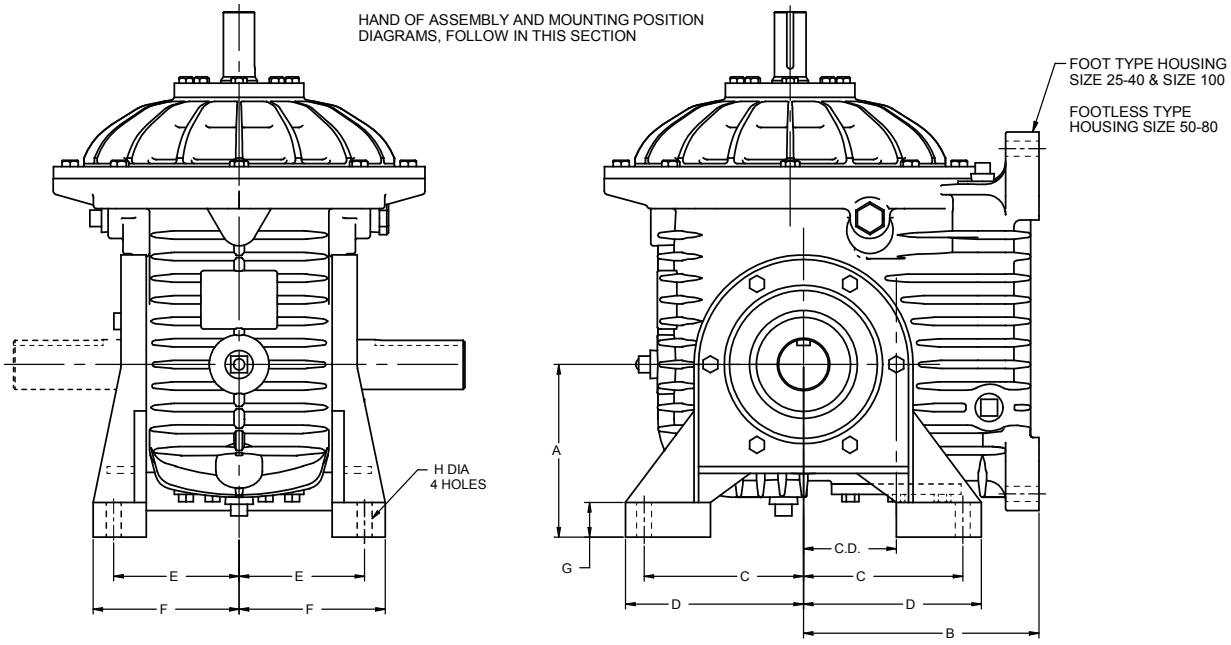
*Available at additional cost.

Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm Speed Reducer

Sizes 25 thru 100

Models VR & SVR Input Vertical-Horizontal Output Shaft
Special Foot Brackets

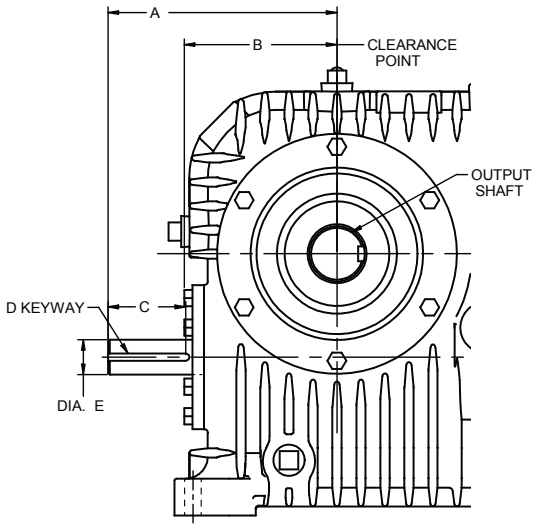


MODEL AVAILABLE IN ALL SOLID AND HOLLOW OUTPUT SHAFT CONFIGURATIONS.
FOR ALL OTHER DIMENSIONS REFER TO CORRESPONDING SIZE MODEL SR OR RU.

Reducer Size	Center Distance	A	B	C	D	E	F	G	H
25	2.500	4.50	6.75	4.25	4.8	4.75	5.4	0.9	15/32
30	3.000	5.50	7.75	5.00	5.7	5.25	5.9	1.2	9/16
35	3.500	6.50	8.87	6.00	6.7	6.50	7.2	1.3	9/16
40	4.000	7.50	10.00	6.75	7.6	7.75	8.6	1.5	11/16
50	5.000	8.50	11.8	7.50	8.4	8.25	9.2	1.8	13/16
60	6.000	8.50	13.4	8.25	9.1	9.00	9.9	1.5	13/16
70	7.000	13.75	16.4	10.00	11.3	9.75	10.8	1.5	15/16
80	8.000	15.50	17.4	11.50	12.8	10.30	11.3	1.8	15/16
100	10.000	19.50	22.0	14.50	16	13.10	14.3	2.3	1–1/16

Worm Extension Opposite Reducer Input

Reducer Size	Center Distance	A	B	C	D	E
25	2.500	5.25	3.8	1.00	3/16 x 3/32	0.750
30	3.000	6.69	4.6	1.75	1/4 x 1/8	1.000
35	3.500	7.75	5.2	2.62	1/4 x 1/8	1.188
40	4.000	9.31	6.1	2.75	3/8 x 3/16	1.500
50	5.000	10.50	7.2	2.75	3/8 x 3/16	1.500
60	6.000	11.75	7.8	3.50	3/8 x 3/16	1.750
70	7.000	14.50	9.4	4.50	1/2 x 1/4	1.875
80	8.000	15.50	10.8	4.75	1/2 x 1/4	2.000
100	10.000	19.25	14.5	4.20	5/8 x 5/16	2.375



FOR SHAFT SPEED DIVIDE INPUT SPEED BY HELICAL GEAR RATIO.

Fan & Water Cooling for Cone Drive Helical/Worm Speed Reducer

Model FRV, FRU, FSR, FSRU, FSRV
Fan Cooling

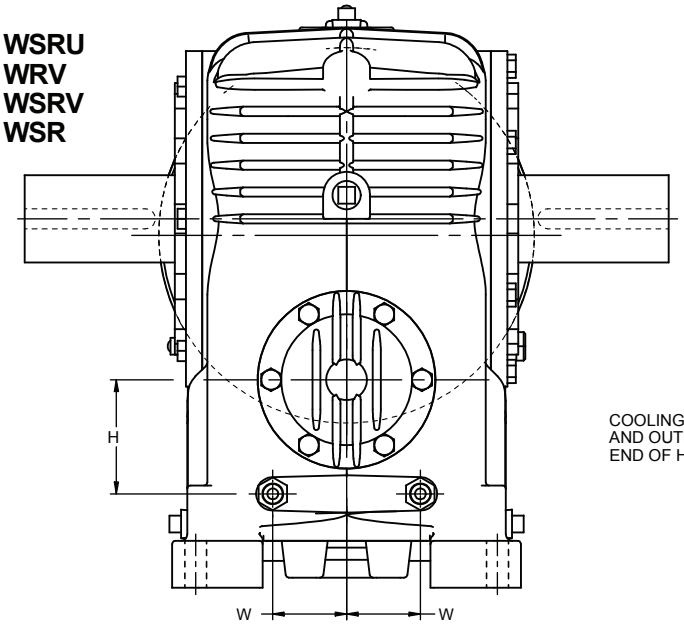
Cone Drive fan-cooled helical/worm double reduction speed reducers are available in all models size 40 through 100. They are identical with standard models except for the use of an extended worm shaft, fan and air-flow control cover. All size 40 fan-cooled models have thermal horsepower ratings equal to mechanical horsepower ratings, regardless of ratio.

CLEARANCE DIMESNION FROM CENTERLINE OF UNIT OVER FAN COVER						
SIZE	40	50	60	70	80	100
DIM	8.0	9.5	10.2	12.9	14.3	16.5

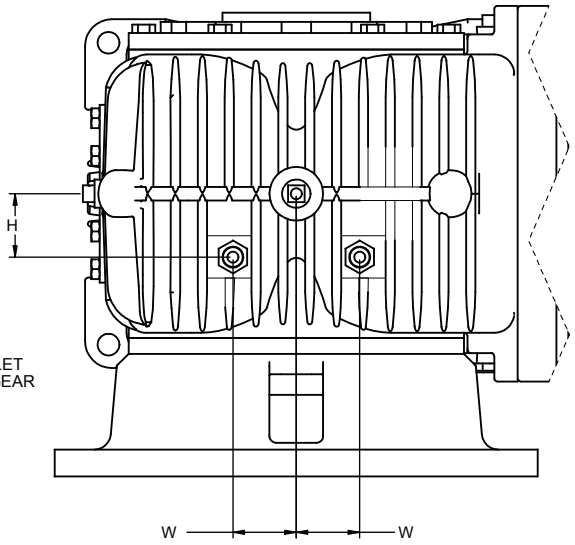
Water Cooling Inlet and Outlet Locations

WRU Shown

WSRU
WRV
WSRV
WSR



WRV and WSRV sizes 70-100 only



COOLING COIL INLET AND OUTLET AT GEAR END OF HOUSING

Floor Mounted Position Shown

MODELS	SIZE	W	H	FEMALE THREAD
WRU WRV WSR	40	2.43	3.50	3/8 - 18 NPT
WRU WRV WSR	50	2.25	3.75	3/8 - 18 NPT
WRU WRV WSR	60	2.06	4.44	3/8 - 18 NPT
WRU WSR	70	3.25	5.88	3/8 - 18 NPT
WRU WSR	80	3.25	5.88	3/8 - 18 NPT
WRU WSR	100	4.25	8.00	3/8 - 18 NPT

COOLING COILS MAY BE SUPPLIED IN EITHER PLAIN OR FINNED O.D. TUBING.

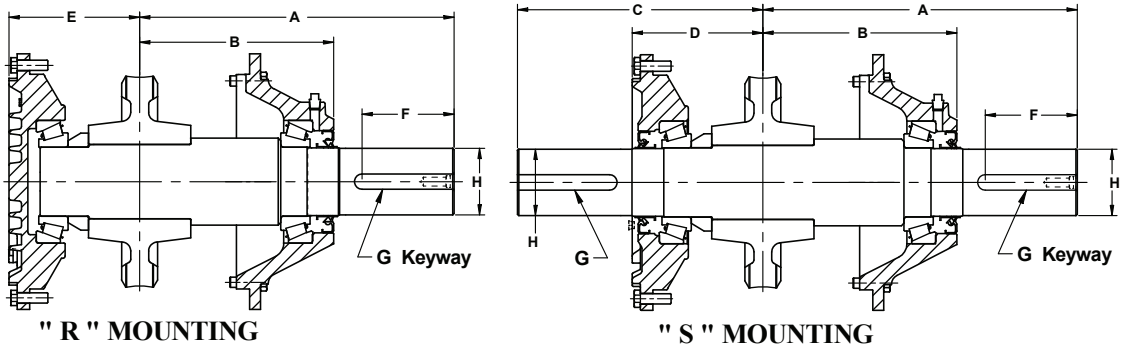
Floor Mounted Position Shown

MODELS	SIZE	W	H	FEMALE THREAD
WRV WSRV	70	3.00	3.75	3/8 - 18 NPT
WRV WSRV	80	3.50	3.75	3/8 - 18 NPT
WRV WSRV	100	5.00	4.25	3/8 - 18 NPT

IMPORTANT: WHEN ASSEMBLING EXTERNAL PIPING TO REDUCER INLET AND OUTLET FITTINGS A BACKUP WRENCH MUST BE USED ON REDUCER FITTINGS TO PREVENT TURNING TO AVOID DAMAGE TO COOLING COILS INSIDE UNIT.

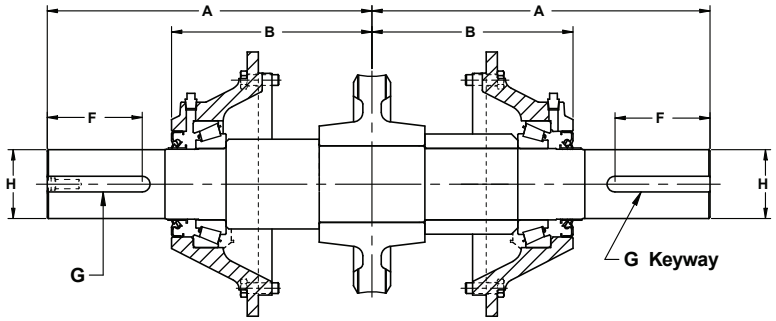
INLET AND OUTLET LOCATIONS MAY VARY DEPENDING ON MOUNTING POSITION OF UNIT.

Steeple Bearings for Cone Drive Helical/Worm Speed Reducers



" R " MOUNTING

" S " MOUNTING



" T " MOUNTING

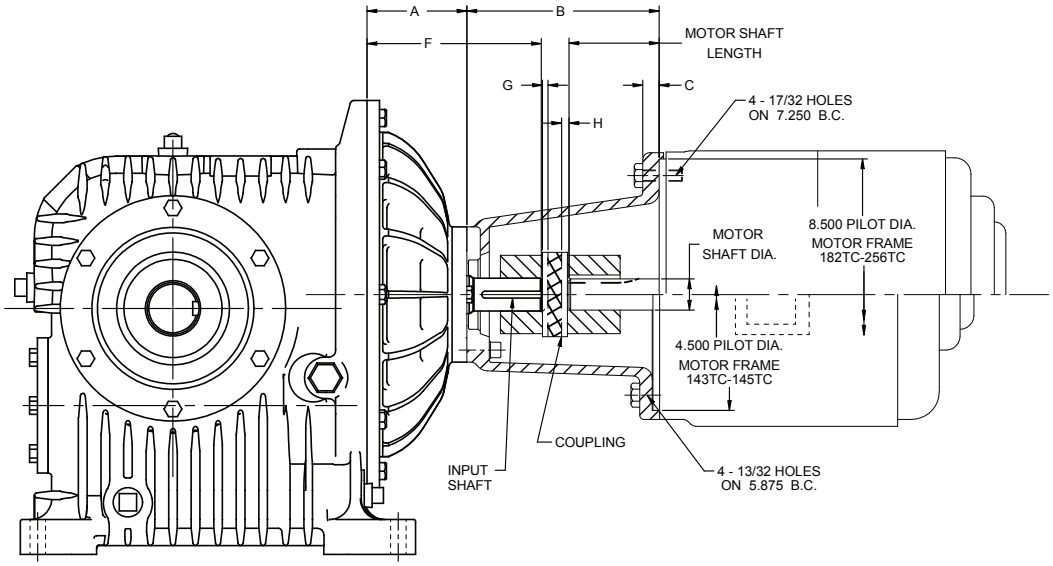
Reducer Size	Center Distance	A	B	C	D	E	F	G	H DIA.
25	2.500	7.88	4.9	4.50	2.6	2.6	1.38	1/4 x 1/8	1.250 1.249
30	3.000	8.62	5.9	5.94	3.4	3.4	2.00	3/8 x 3/16	1.500 1.499
35	3.500	10.25	6.3	7.88	4.2	4.2	2.68	1/2 x 1/4	1.875 1.875
40	4.000	11.25	6.6	9.25	4.9	4.9	3.31	1/2 x 1/4	2.250 2.249
50	5.000	13.62	8.6	10.31	5.6	5.6	3.62	5/8 x 5/16	2.750 2.749
60	6.000	15.38	9.6	12.00	6.3	6.4	4.62	3/4 x 3/8	3.250 3.249
70	7.000	19.38	12.5	13.00	7.4	7.4	4.88	7/8 x 7/16	3.375 3.374
80	8.000	19.38	12.9	14.00	7.8	7.8	4.88	7/8 x 7/16	3.500 3.499
100	10.000	24.00	16.5	15.72	9.4	9.4	5.12	1 x 1/2	4.000 3.999

When ordering, specify model size, hand of assembly, and steeple bearings using the letter designation R, S, or T for the mounting configuration required.
For R and T mountings, use the standard hand of assembly designation shown throughout the catalog for various sizes of reducers and mounting positions.
For double-extended S mountings on worm over and worm under units, specify steeple bearing on left (L) or right (R) of unit as viewed from the input end.
For S mounting on vertical gear shaft unit, specify steeple bearing opposite feet (U) or through feet (D).

Motorizing for Cone Drive Standard Helical/Worm Reducers

Models RV, RU, SR, VR, SRU, SRV, SVR
NEMA "C" Face Motor

Add letter 'MA' before model designation.



General Information

Reducer dimensions precede in this section.

Motor bolts and coupling keys are furnished when mounted by Cone Drive.

Important

Note 1: Motor shaft length, frame 213TC-215TC, must be 2.250 (cut off) for reducer size 25 & 30 and standard length 3.125 for reducer sizes 35 & 40.

Note 2: Motor shaft length, frame 254TC-256TC to be 2.750 (cut off) for reducer sizes 35 & 40.

Note 3: input shaft detail number G60 required for all standard helical pinion ratios except 4:1 which requires shaft detail. G61. All dash number will remain the same.

Note 4: It is the purchaser's or user's responsibility to guard all shafting in accordance to OSHA requirements.

MOTOR FRAME SIZE	PILOT DIA.	SHAFT			A REDUCER SIZE			B REDUCER SIZE			C REDUCER SIZE		
		LGTH.	DIA.	KWY	25 & 30	35 & 40	50 & 60	25 & 30	35 & 40	50 & 60	25 & 30	35 & 40	50 & 60
143TC-145TC	4.500	2.125	.875	3/16	2.500	3.125	4.00	4.812	5.937	7.960	.56	.53	.400
182TC-184TC	8.500	2.625	1.125	1/4				5.531	6.562	9.060			.580
213TC - 215TC		Note 1	1.375	5/16									
254TC-256TC		Note 2	1.625	3/8	N.A			N.A			N.A		

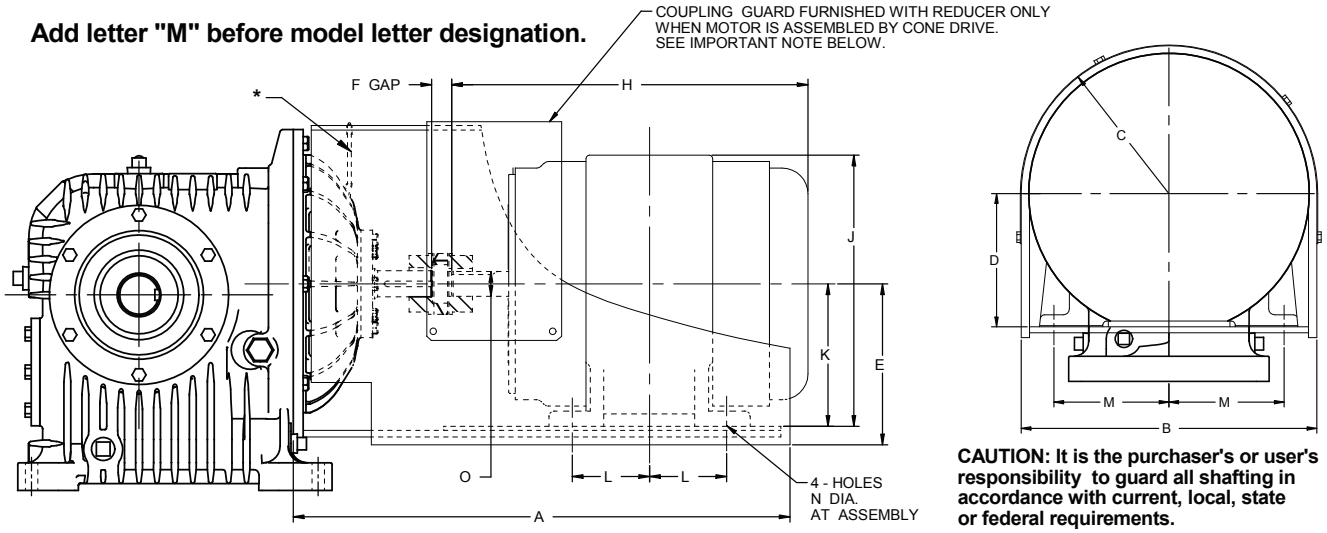
MOTORFRAME SIZE	F REDUCER SIZE			G REDUCER SIZE			H REDUCER SIZE			INPUT SHAFT (NOTE #3) REDUCER SIZE		
	25 & 30	35 & 40	50 & 60	25 & 30	35 & 40	50 & 60	25 & 30	35 & 40	50 & 60	25 & 30	35 & 40	50 & 60
143TC - 145TC	4.687	6.250	9.000	.00	.00	.00	.18	.00	.00	30-G60A-1	40-G60	53-G60
182TC - 184TC							.00	-.06	.56			
213TC - 215TC	5.062	5.812		.21	.12			.00	.00	30-G60A	40-G60-1	
254TC - 256TC	N.A	6.250	8.375	.00	.31					N.A	40-G60	53-G60-1

MOTOR ADAPTOR NUMBER					COUPLING NUMBER		
MOTORFRAME SIZE	REDUCER SIZE				REDUCER SIZE		
	25 & 30	35 & 40	50 & 60		25 & 30	35 & 40	50 & 60
143TC - 145TC	30-MG20	40-MG20	53-MG20-SW		720107	720112	720207
182TC - 184TC	30-MG21	40-MG21	53-MG21-SW		720109	720113	720208
213TC - 215TC					720201-1	720204	720209
254TC - 256TC	N.A				N.A	720254-1	720258

Motorizing for Cone Drive Standard Helical/Worm Reducers

Models RV, RU, SR, VR, SRU, SRV, SVR

Add letter "M" before model letter designation.



CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current, local, state or federal requirements.

MODEL SIZE	APPROX. BRACKET WEIGHT LBS. LESS MOTOR	FRAMES NEW NEMA	FRAMES OLD NEMA	A	B	C	D	E	FGAP	MOTOR SUPPORT BRACKET	GUARD COVER (supplied only with motor)
25 & 30	55	143T - 145T	**143 - 145**	16.0	12.0	5.75	3.56	4.38	TO SUIT COUPLING	30-G84	111500
	120	182T - 215T	**182 - 215**	23.0	14.8	6.00	5.31	6.25		30-G85	111503
35 & 40	85	143T - 145T	**143 - 145**	17.0	13.3	6.00	3.56	4.38		40-G84	111500
	150	182T - 215T	**182 - 215**	24.5	17.0	7.38	5.31	6.25		40-G85	111503
	190	254T - 286TS	**254U - 286U**	31.0	18.0	7.38	7.06	8.00		40-G86	111503
50 & 60	150	182T - 215T	**182-215**	25.8	17.0	7.62	5.31	6.31		40-G85	111503
	190	254T - 286T	**254U - 286U**	32.4	18.0	8.62	7.06	7.88		40-G86	111506
	270	324T - 326TS	**324US - 365US**	34.8	23.0	10.88	9.06	10.00		53-G87	111506
70 & 80	200	182T - 215T	**182 - 215**	27.2	19.0	8.88	5.31	6.50		67-G85	111503
	230	254T - 286TS	**254U - 286U**	33.2	19.0	8.88	7.06	8.00		67-G86	111506
	310	324T - 365TS	**324U - 365US**	39.6	23.0	10.88	9.06	10.00		67-G87	111506

MOTOR FRAME	H			J			K	L	M	N	O		HORSEPOWER	
	OPEN	TEFC	TEFC-XP	OPEN	TEFC	TEFC-XP				DIA.	DIA.	KEYWAY	1800 RPM	1200 RPM
143T	11.56	12.00		7.25	7.25		3.50	2.00	2.75	11/32	.875	3/16	1	.75
145T	12.56	13.00		7.25	7.25		3.50	2.50	2.75	11/32	.875	3/16	1.5 & 2	1
182T	13.75	14.62		9.38	9.38		4.50	2.25	3.75	13/32	1.125	1/4	3	1.5
184T	14.75	15.62		9.38	9.38		4.50	2.75	3.75	13/32	1.125	1/4	5	2
213T	15.94	17.75		10.31	12.00		5.25	2.75	4.25	13/32	1.375	5/16	7.5	3
215T	17.44	19.25		10.31	12.00		5.25	3.50	4.25	13/32	1.375	5/16	10	5
254T	20.56	21.81		12.62	13.62		6.25	4.12	5.00	17/32	1.625	3/8	15	7.5
256T	22.31	23.56		12.62	13.62		6.25	5.00	5.00	17/32	1.625	3/8	20	10
284TS	22.06	23.19		14.00	15.25		7.00	4.75	5.50	17/32	1.625	3/8	25	15
286TS	23.56	24.69		14.00	15.25		7.00	5.50	5.50	17/32	1.625	3/8	30	20
324TS	24.56	25.69		16.00	17.38		8.00	5.25	6.25	21/32	1.875	1/2	40	25
182	12.31	12.31*	14.19*	9.00	8.94*	9.31*	4.50	2.25	3.75	13/32	.875	3/16	1	.75
184	13.31	15.19*	15.19*	9.00	9.19*	9.38	4.50	2.75	3.75	13/32	.875	3/16	1.5 & 2	1 & 1.5
213	15.62	17.50	17.50	10.50	10.75	11.00	5.25	2.75	4.25	13/32	1.125	1/4	3	2
215	17.12	18.94	18.94	10.50	10.75	11.00	5.25	3.50	4.25	13/32	1.125	1/4	5	3
254U	20.62	21.56	21.56	12.62	13.06	13.12	6.25	4.12	5.00	17/32	1.375	5/16	7.5	5
256U	22.06	23.31	23.31	12.62	13.06	13.12	6.25	5.00	5.00	17/32	1.375	5/16	10	7.5
284U	23.69	24.81	24.81	14.00	14.62	14.62	7.00	4.75	5.50	17/32	1.625	3/8	15	10
286U	25.31	26.31	26.31	14.00	14.62	14.62	7.00	5.50	5.50	17/32	1.625	3/8	20	
324U	26.44	27.56	27.56	16.00	16.75	16.75	8.00	5.25	6.25	21/32	1.875	1/2	25	15
326U	27.94	29.06	29.06	16.00	16.75	16.75	8.00	6.00	6.25	21/32	1.875	1/2	30	10
364US	29.56	30.94	30.94	18.25	18.75	18.75	9.00	5.62	7.00	21/32	1.875	1/2	40	25
365US	27.56	31.94	31.94	18.25	18.75	18.75	9.00	6.12	7.00	21/32	1.875	1/2	50	30

Motor dimensions shown are for reference only and may vary with each manufacturer.
For all other dimensions see corresponding model size dimension pages. Unless otherwise specified, motor support bracket surface shall be under motor, except when mounted vertically.
*Frame 182 is TENV, frame 184 may be TENV.

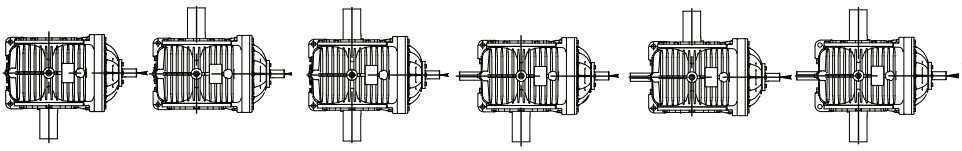
Assembly & Mounting Position Numbers for Cone Drive Helical/Worm Speed Reducers

Models RU, SRU, MRU, MSRU, SR, MSR - Solid & Hollow Shaft

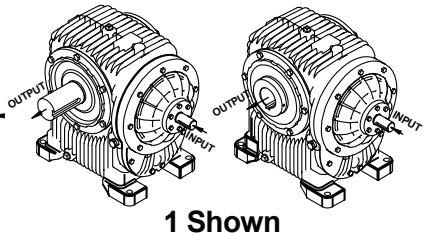
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE

◀ = INPUT

Top View, Floor Mounted

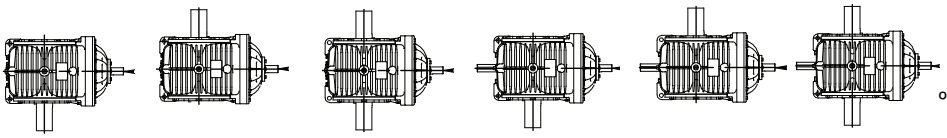


1.....2.....3.....4.....5.....6

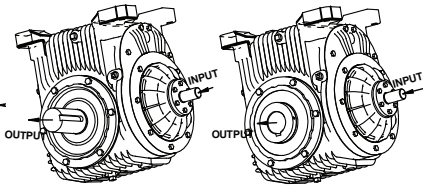


1 Shown

Ceiling Mounted

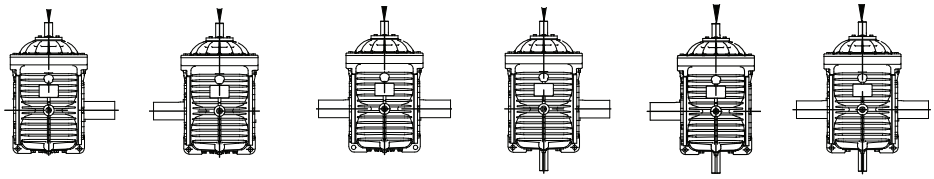


C1.....C2.....C3.....C4.....C5.....C6

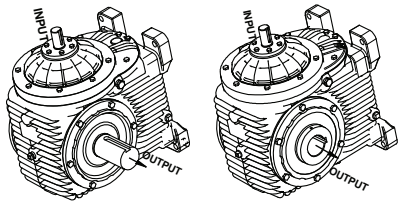


C2 Shown

Wall Mounted, Worm Vertical Up

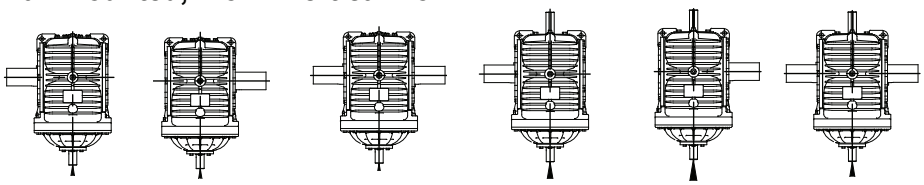


W1.....W2.....W3.....W4.....W5.....W6

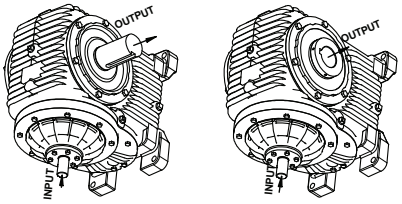


W1 Shown

Wall Mounted, Worm Vertical Down

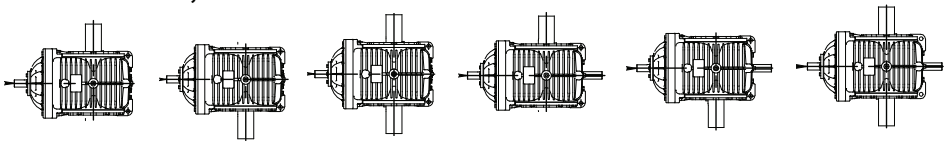


X1.....X2.....X3.....X4.....X5.....X6

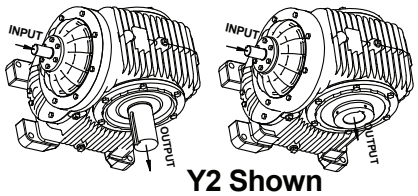


X2 Shown

Wall Mounted, Worm Horizontal to the Left

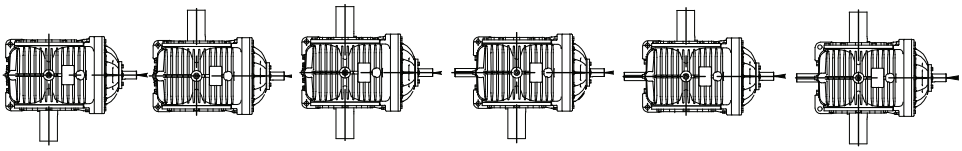


Y1.....Y2.....Y3.....Y4.....Y5.....Y6

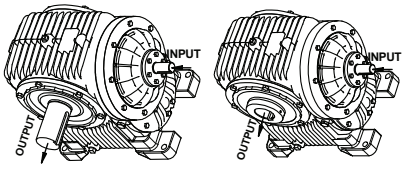


Y2 Shown

Wall Mounted, Worm Horizontal to the Right



Z1.....Z2.....Z3.....Z4.....Z5.....Z6



Z1 Shown

Assembly & Mounting Position Numbers for Cone Drive Helical/Worm Speed Reducers

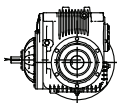
Models RV, SRV, MRV, MSRV - Solid & Hollow Shaft

ALL DIAGRAMS SHOW REDUCER WITH BASE ON FAR SIDE

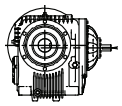
RV	SRV	
A	A	Gearshaft Extended Opposite Base
BR	B	Gearshaft Extended Through Base
SD	C	Gearshaft Double Extended

Floor Mounted - Top View

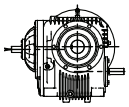
◀ = INPUT



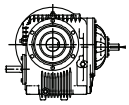
RV	SRV
1A	1A
1BR	1B
1SD	1C



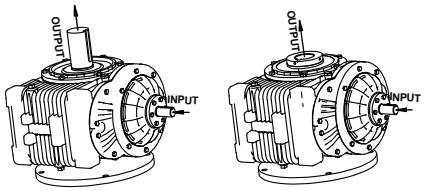
RV	SRV
2A	2A
2BR	2B
2SD	2C



RV	SRV
3A	3A
3BR	3B
3SD	3C

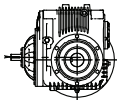


RV	SRV
4A	4A
4BR	4B
4SD	4C

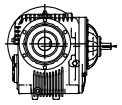


2A Shown

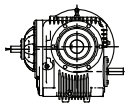
Ceiling Mounted



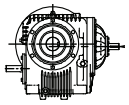
RV	SRV
C1A	C1A
C1BR	C1B
C1SD	C1C



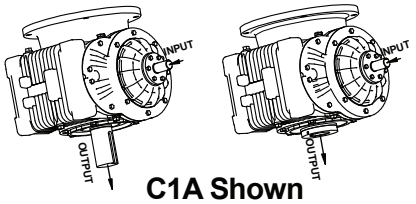
RV	SRV
C2A	C2A
C2BR	C2B
C2SD	C2C



RV	SRV
C3A	C3A
C3BR	C3B
C3SD	C3C

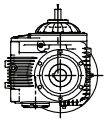


RV	SRV
C4A	C4A
C4BR	C4B
C4SD	C4C

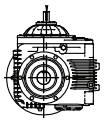


C1A Shown

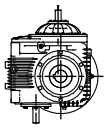
Wall Mounted - Input Shaft Up



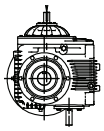
RV	SRV
W1A	W1A
W1BR	W1B
W1SD	W1C



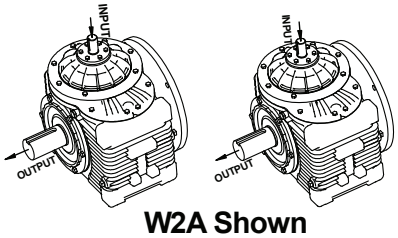
RV	SRV
W2A	W2A
W2BR	W2B
W2SD	W2C



RV	SRV
W3A	W3A
W3BR	W3B
W3SD	W3C

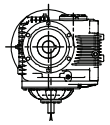


RV	SRV
W4A	W4A
W4BR	W4B
W4SD	W4C

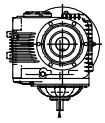


W2A Shown

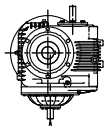
Wall Mounted - Input Shaft Down



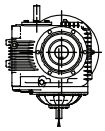
RV	SRV
X1A	X1A
X1BR	X1B
X1SD	X1C



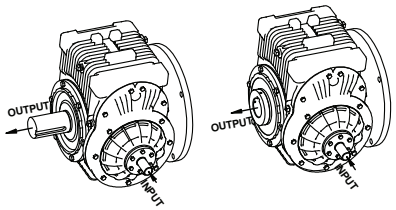
RV	SRV
X2A	X2A
X2BR	X2B
X2SD	X2C



RV	SRV
X3A	X3A
X3BR	X3B
X3SD	X3C

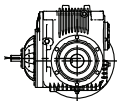


RV	SRV
X4A	X4A
X4BR	X4B
X4SD	X4C

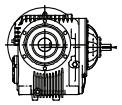


X1A Shown

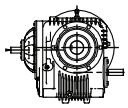
Wall Mounted - Worm Under



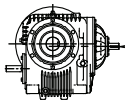
RV	SRV
Y1A	Y1A
Y1BR	Y1B
Y1SD	Y1C



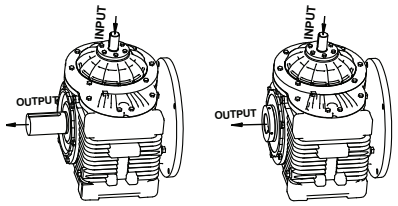
RV	SRV
Y2A	Y2A
Y2BR	Y2B
Y2SD	Y2C



RV	SRV
Y3A	Y3A
Y3BR	Y3B
Y3SD	Y3C

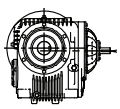


RV	SRV
Y4A	Y4A
Y4BR	Y4B
Y4SD	Y4C

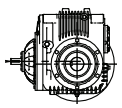


Y2A Shown

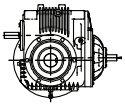
Wall Mounted - Worm Over



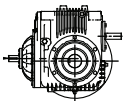
RV	SRV
Z1A	Z1A
Z1BR	Z1B
Z1SD	Z1C



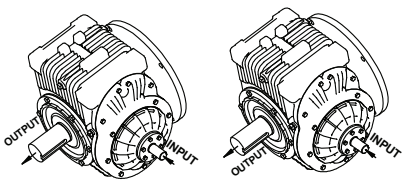
RV	SRV
Z2A	Z2A
Z2BR	Z2B
Z2SD	Z2C



RV	SRV
Z3A	Z3A
Z3BR	Z3B
Z3SD	Z3C



RV	SRV
Z4A	Z4A
Z4BR	Z4B
Z4SD	Z4C



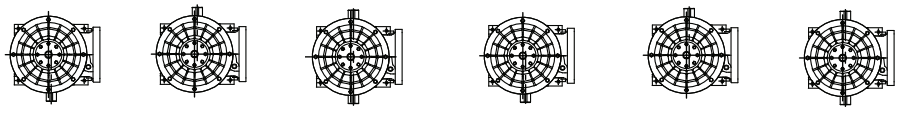
Z1A Shown

Assembly & Mounting Position Numbers for Cone Drive Helical/Worm Speed Reducers

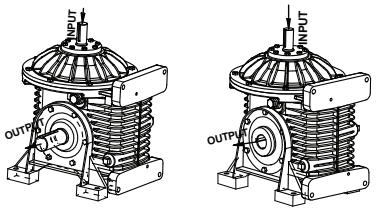
Models VR, SVR, MVR, MSVR - Solid & Hollow Shaft

ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE. DIAGRAMS 4-6 HAVE SHAFT EXTENSION OPPOSITE INPUT END.

Top View, Floor Mounted

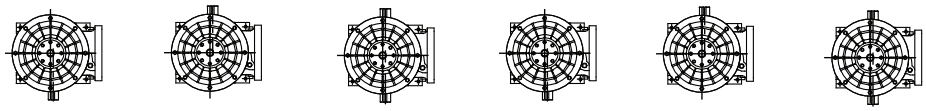


1.....2.....3.....4.....5.....6

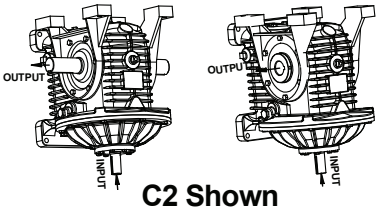


1 Shown

Ceiling Mounted

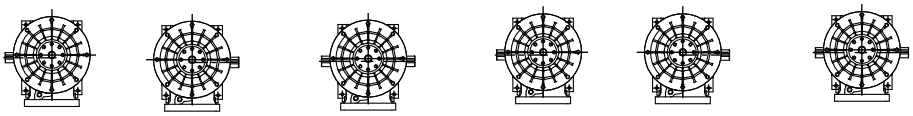


C1.....C2.....C3.....C4.....C5.....C6

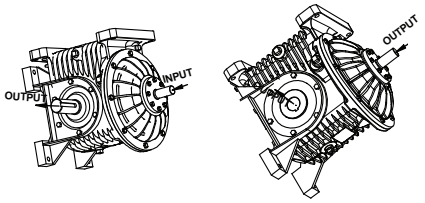


C2 Shown

Wall Mounted, Worm Under Horizontal Gearshaft

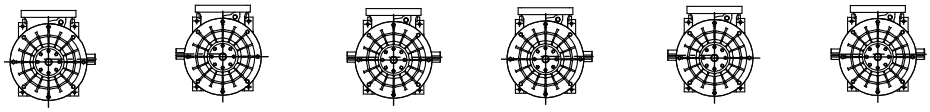


W1.....W2.....W3.....W4.....W5.....W6

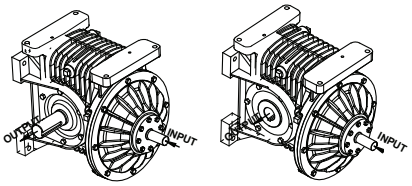


W1 Shown

Wall Mounted, Worm Over Horizontal Gearshaft

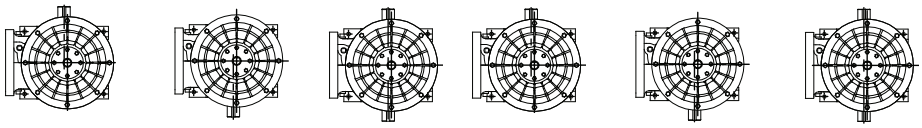


X1.....X2.....X3.....X4.....X5.....X6

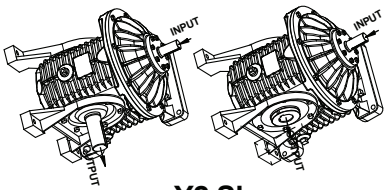


X2 Shown

Wall Mounted, Worm Left Vertical Gearshaft

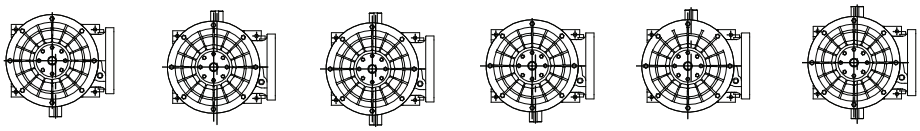


Y1.....Y2.....Y3.....Y4.....Y5.....Y6

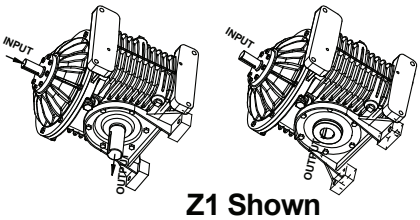


Y2 Shown

Wall Mounted, Worm Right Vertical Gearshaft



Z1.....Z2.....Z3.....Z4.....Z5.....Z6

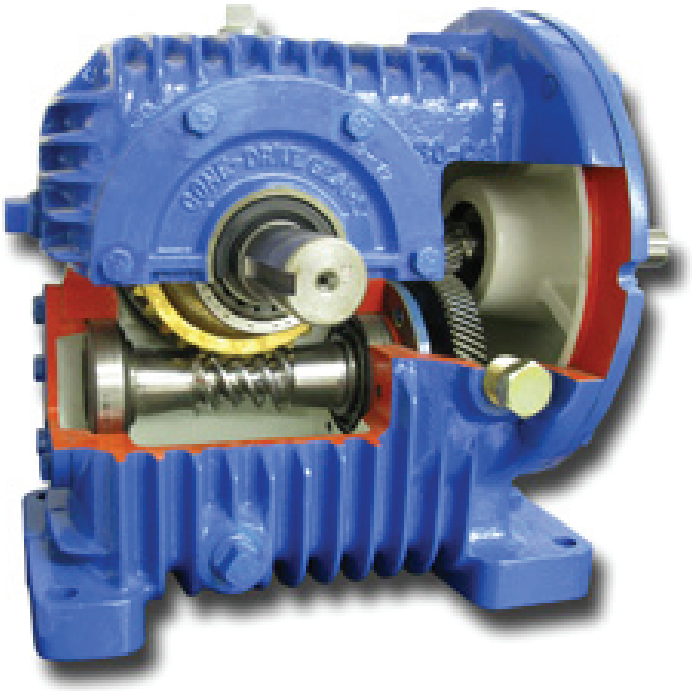


Z1 Shown

Helical/Worm Illustrations

Shown below are two Cone Drive helical/worm configurations

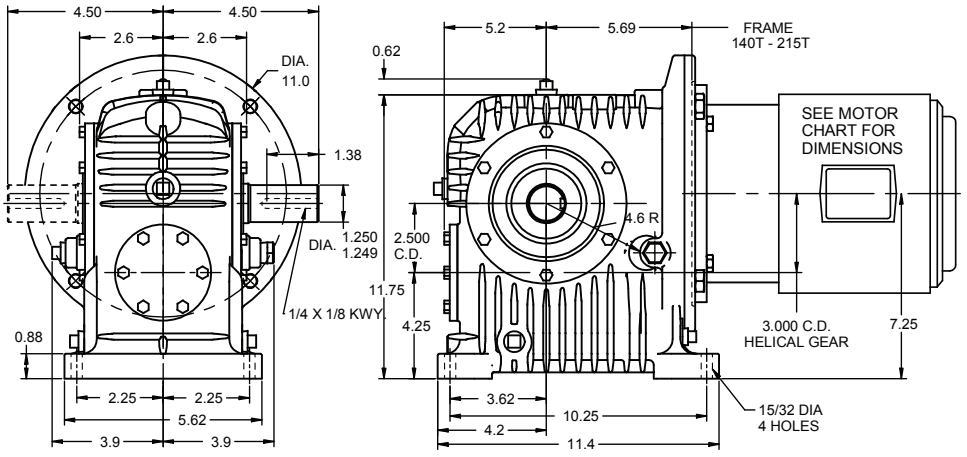
Helical/Worm Speed Reducer



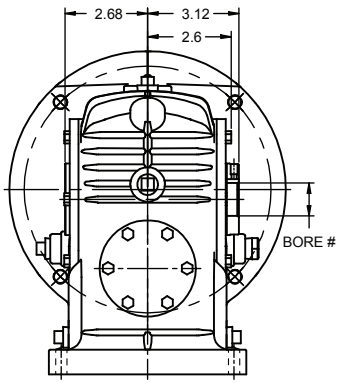
Helical/Worm D-Flange Gearhead

Cone Drive Helical/Worm D-Flange Gearhead - 2.500" C.D.
Size 25 Solid Shaft

Model MU est. wt. 70 lbs less motor

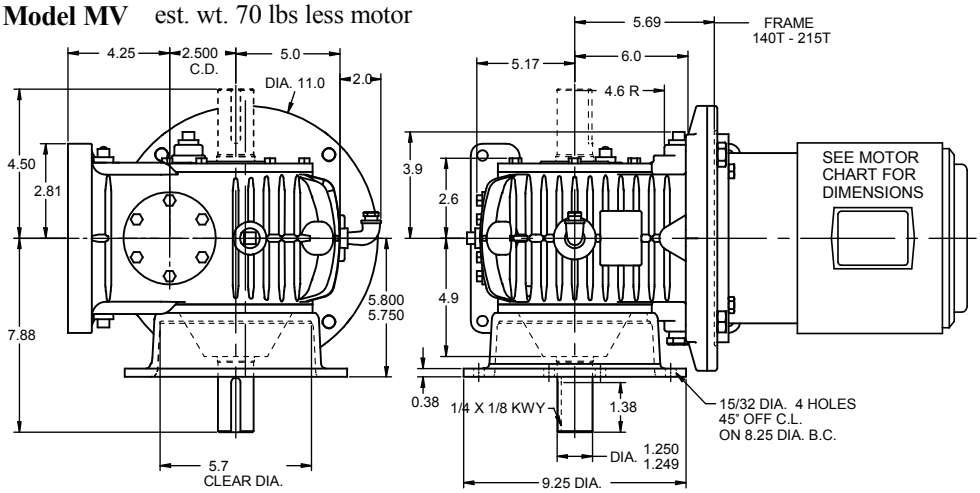


SMU est. wt. 70 lbs less motor



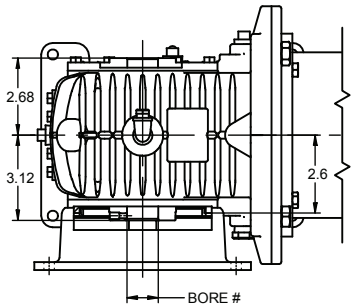
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 70 lbs less motor



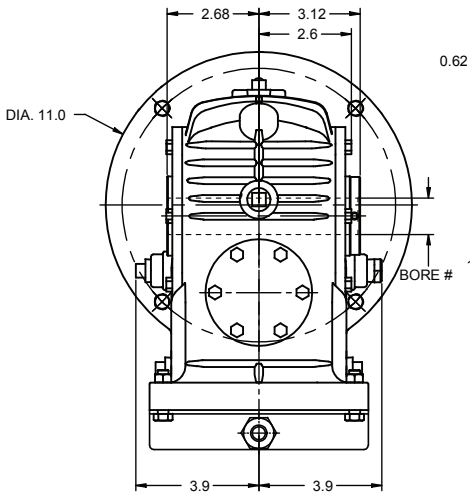
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

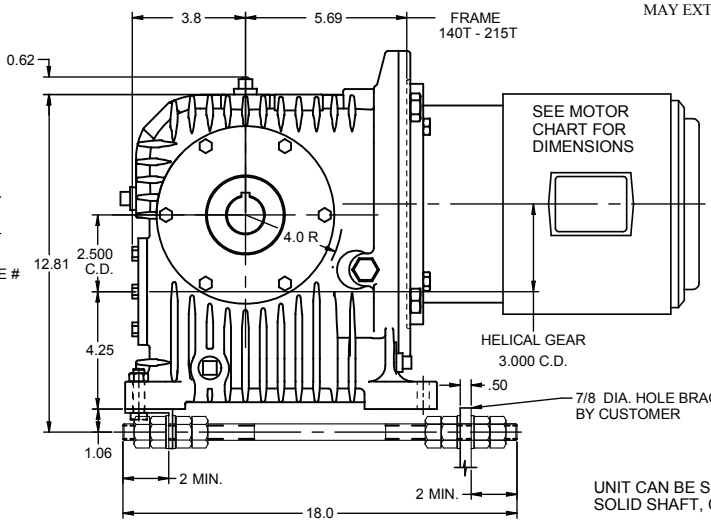
SMV est. wt. 70 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SM est. wt. 70 lbs less motor





SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED WITH
SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 25 3.000" C.D. HELICAL PRI./2.500" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
5:1 1 x 5	Me.HP	0.80	3.63	4.82	5.65	7.08
	Th.HP	0.80	3.63	4.82	5.65	7.08
	O.T.	2180	1740	1550	1380	1140
7.5:1 1.5 x 5	Me.HP	0.54	2.62	3.63	4.44	5.69
	Th.HP	0.54	2.62	3.63	4.44	5.69
	O.T.	2180	1880	1740	1620	1370
9:1 1.8 x 5	Me.HP	0.46	2.24	3.15	3.91	5.14
	Th.HP	0.46	2.24	3.15	3.91	5.14
	O.T.	2180	1920	1810	1710	1480
10:1 1 x 10	Me.HP	0.51	2.33	3.14	3.73	4.68
	Th.HP	0.51	2.33	3.14	3.73	4.68
	O.T.	2580	2150	1960	1770	1480
12.5:1 2.5 x 5	Me.HP	0.33	1.68	2.40	3.02	4.17
	Th.HP	0.33	1.68	2.40	3.02	4.17
	O.T.	2180	2000	1910	1820	1660
15:1 1.5 x 10	Me.HP	0.35	1.67	2.33	2.88	3.76
	Th.HP	0.35	1.67	2.33	2.88	3.76
	O.T.	2580	2280	2150	2030	1760
18:1 1.8 x 10	Me.HP	0.29	1.42	2.01	2.52	3.39
	Th.HP	0.29	1.42	2.01	2.52	3.39
	O.T.	2580	2320	2210	2110	1890
20:1 4 x 5	Me.HP	0.21	1.12	1.59	2.03	2.90
	Th.HP	0.21	1.12	1.59	2.03	2.90
	O.T.	2180	2110	2010	1950	1840
22.5:1 1.5 x 15	Me.HP	0.24	1.17	1.64	2.04	2.67
	Th.HP	0.24	1.17	1.64	2.04	2.67
	O.T.	2590	2310	2210	2100	1840
25:1 2.5 x 10	Me.HP	0.21	1.07	1.52	1.93	2.70
	Th.HP	0.21	1.07	1.52	1.93	2.70
	O.T.	2580	2400	2300	2230	2070
27:1 1.8 x 15	Me.HP	0.20	1.00	1.42	1.77	2.39
	Th.HP	0.20	1.00	1.42	1.77	2.39
	O.T.	2590	2340	2260	2170	1970
30:1 1.5 x 20	Me.HP	0.19	0.90	1.26	1.56	2.05
	Th.HP	0.19	0.90	1.26	1.56	2.05
	O.T.	2510	2260	2190	2070	1800
36:1 1.8 x 20	Me.HP	0.16	0.77	1.09	1.36	1.84
	Th.HP	0.16	0.77	1.09	1.36	1.84
	O.T.	2510	2280	2230	2150	1930
37.5:1 2.5 x 15	Me.HP	0.15	0.75	1.07	1.36	1.90
	Th.HP	0.15	0.75	1.07	1.36	1.90
	O.T.	2590	2420	2330	2280	2140
40:1 4 x 10	Me.HP	0.14	0.71	1.01	1.29	1.85
	Th.HP	0.14	0.71	1.01	1.29	1.85
	O.T.	2580	2510	2410	2350	2250
45:1 1.8 x 25	Me.HP	0.13	0.62	0.88	1.09	1.48
	Th.HP	0.13	0.62	0.88	1.09	1.48
	O.T.	2410	2270	2200	2120	1930
50:1 2.5 x 20	Me.HP	0.11	0.57	0.82	1.04	1.46
	Th.HP	0.11	0.57	0.82	1.04	1.46
	O.T.	2510	2340	2270	2240	2110
54:1 1.8 x 30	Me.HP	0.11	0.52	0.73	0.92	1.24
	Th.HP	0.11	0.52	0.73	0.92	1.24
	O.T.	2300	2120	2060	2000	1860
60:1 4 x 15	Me.HP	0.09	0.50	0.71	0.91	1.30
	Th.HP	0.09	0.50	0.71	0.91	1.30
	O.T.	2590	2530	2430	2370	2290
62.5:1 2.5 x 25	Me.HP	0.09	0.46	0.66	0.84	1.18
	Th.HP	0.09	0.46	0.66	0.84	1.18
	O.T.	2410	2320	2260	2220	2090
72:1 1.8 x 40	Me.HP	0.08	0.39	0.55	0.69	0.93
	Th.HP	0.08	0.39	0.55	0.69	0.93
	O.T.	2070	2000	1970	1920	1770
75:1 2.5 x 30	Me.HP	0.08	0.39	0.55	0.70	0.98
	Th.HP	0.08	0.39	0.55	0.70	0.98
	O.T.	2300	2170	2110	2070	1980

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
80:1 4 x 20	Me.HP	0.07	0.38	0.54	0.69	1.00
	Th.HP	0.07	0.38	0.54	0.69	1.00
	O.T.	2510	2450	2360	2290	2250
90:1 1.8 x 50	Me.HP	0.07	0.31	0.44	0.55	0.75
	Th.HP	0.07	0.31	0.44	0.55	0.75
	O.T.	1840	1910	1910	1870	1700
100:1 4 x 25	Me.HP	0.06	0.31	0.44	0.56	0.80
	Th.HP	0.06	0.31	0.44	0.56	0.80
	O.T.	2410	2370	2320	2290	2230
108:1 1.8 x 60	Me.HP	0.06	0.27	0.38	0.46	0.64
	Th.HP	0.06	0.27	0.38	0.46	0.64
	O.T.	1800	1835	1820	1785	1665
120:1 4 x 30	Me.HP	0.05	0.26	0.37	0.47	0.67
	Th.HP	0.05	0.26	0.37	0.47	0.67
	O.T.	2300	2250	2180	2140	2080
125:1 2.5 x 50	Me.HP	0.05	0.23	0.33	0.42	0.59
	Th.HP	0.05	0.23	0.33	0.42	0.59
	O.T.	1840	1900	1910	1920	1840
150:1 2.5 x 60	Me.HP	0.04	0.20	0.28	0.36	0.49
	Th.HP	0.04	0.20	0.28	0.36	0.49
	O.T.	1800	1880	1835	1820	1760
160:1 4 x 40	Me.HP	0.04	0.19	0.28	0.35	0.51
	Th.HP	0.04	0.19	0.28	0.35	0.51
	O.T.	2070	2030	1980	1990	1980
200:1 4 x 50	Me.HP	0.03	0.16	0.22	0.28	0.41
	Th.HP	0.03	0.16	0.22	0.28	0.41
	O.T.	1840	1880	1890	1900	1920
240:1 4 x 60	Me.HP	0.03	0.13	0.19	0.24	0.34
	Th.HP	0.03	0.13	0.19	0.24	0.34
	O.T.	1800	1845	1890	1850	1825

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	**GEARSHAFT NUMBER**	**KEYWAY SIZE**
2.000*	25-S60-200	1/4 X 1/8
1.9375*	25-S60-115	1/4 X 1/8
1.6875*	25-S60-111	3/8 X 3/16
1.4375*	25-S60-107	3/8 X 3/16
1.250*	25-S60-104	1/4 X 1/8
1.1875*	25-S60-103	1/4 X 1/8

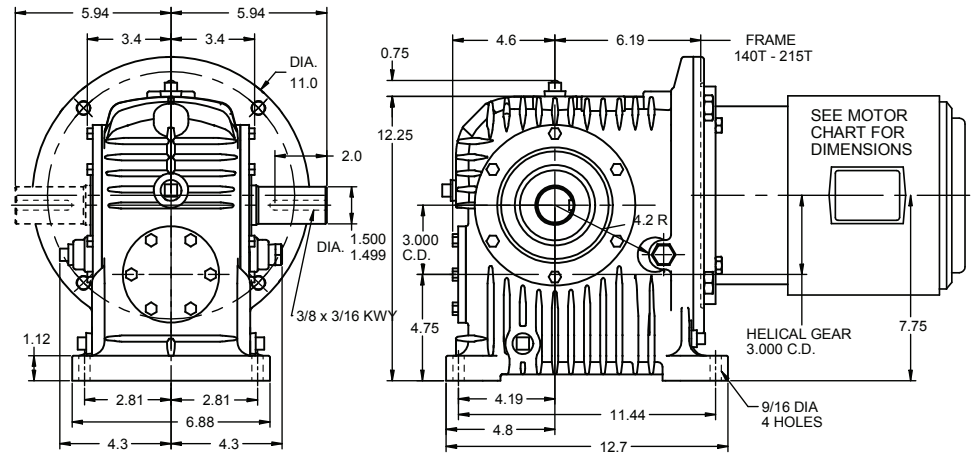
Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.002, -.000
2 set screws at long end of shaft.

Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm D-Flange Gearhead - 3.000" C.D.

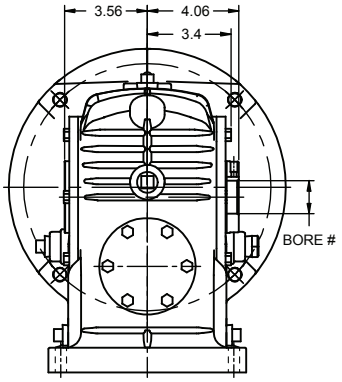
Size 30 Solid Shaft

Model MU est. wt. 100 lbs less motor



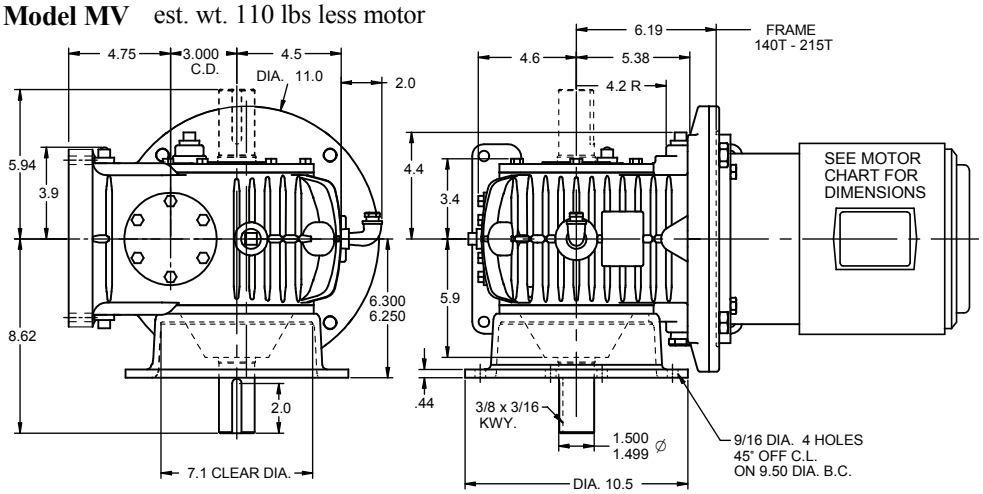
Hollow Shaft

SMU est. wt. 100 lbs less motor



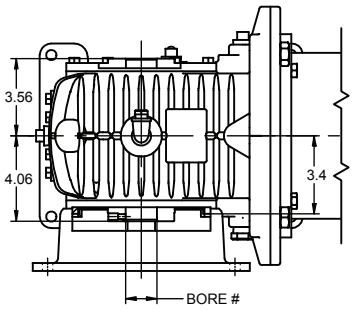
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 110 lbs less motor



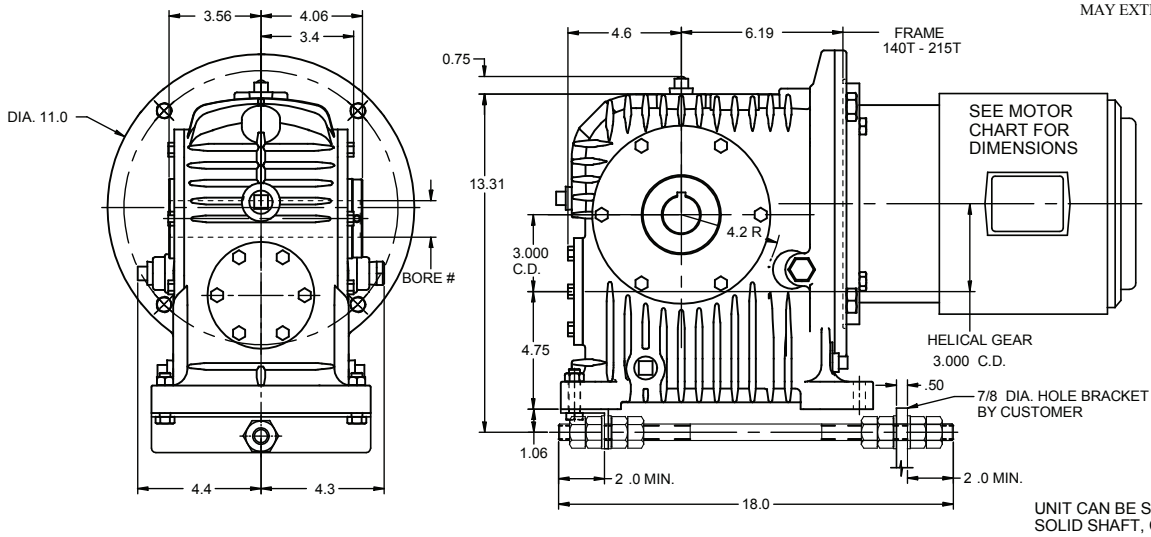
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SMV est. wt. 110 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SM est. wt. 100 lbs less motor



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED WITH
SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 30 3.000" C.D. HELICAL PRI./3.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	1.42	6.24	8.03	9.34	11.7
	Th.HP	1.42	6.24	8.03	9.34	9.20
	O.T.	3870	3000	2590	2280	1880
7.5:1 1.5 x 5	Me.HP	0.97	4.57	6.24	7.47	9.41
	Th.HP	0.97	4.57	6.24	7.47	9.20
	O.T.	3870	3280	3000	2730	2270
9:1 1.8 x 5	Me.HP	0.81	3.94	5.45	6.66	8.53
	Th.HP	0.81	3.94	5.45	6.66	8.53
	O.T.	3870	3380	3140	2910	2460
10:1 1 x 10	Me.HP	0.91	4.09	5.43	6.35	7.96
	Th.HP	0.91	4.09	5.43	6.35	7.96
	O.T.	4600	3770	3380	3010	2510
12.5:1 2.5 x 5	Me.HP	0.59	2.97	4.20	5.25	7.08
	Th.HP	0.59	2.97	4.20	5.25	7.08
	O.T.	3870	3520	3340	3170	2820
15:1 1.5 x 10	Me.HP	0.62	2.96	4.09	4.99	6.40
	Th.HP	0.62	2.96	4.09	4.99	6.40
	O.T.	4600	4040	3770	3510	3000
18:1 1.8 x 10	Me.HP	0.52	2.53	3.55	4.40	5.78
	Th.HP	0.52	2.53	3.55	4.40	5.78
	O.T.	4600	4130	3910	3700	3230
20:1 4 x 5	Me.HP	0.35	1.97	2.80	3.58	5.05
	Th.HP	0.35	1.97	2.80	3.58	5.05
	O.T.	3550	3720	3550	3430	3200
22.5:1 1.5 x 15	Me.HP	0.43	2.08	2.89	3.54	4.55
	Th.HP	0.43	2.08	2.89	3.54	4.55
	O.T.	4620	4100	3880	3660	3140
25:1 2.5 x 10	Me.HP	0.38	1.90	2.70	3.41	4.70
	Th.HP	0.38	1.90	2.70	3.41	4.70
	O.T.	4600	4260	4090	3930	3610
27:1 1.8 x 15	Me.HP	0.36	1.78	2.50	3.11	4.11
	Th.HP	0.36	1.78	2.50	3.11	4.11
	O.T.	4620	4170	3990	3820	3390
30:1 1.5 x 20	Me.HP	0.33	1.59	2.22	2.72	3.50
	Th.HP	0.33	1.59	2.22	2.72	3.50
	O.T.	4470	4020	3860	3600	3090
36:1 1.8 x 20	Me.HP	0.28	1.36	1.92	2.39	3.16
	Th.HP	0.28	1.36	1.92	2.39	3.16
	O.T.	4470	4060	3940	3780	3330
37.5:1 2.5 x 15	Me.HP	0.26	1.34	1.90	2.40	3.32
	Th.HP	0.26	1.34	1.90	2.40	3.32
	O.T.	4620	4300	4140	4020	3740
40:1 4 x 10	Me.HP	0.24	1.26	1.80	2.29	3.27
	Th.HP	0.24	1.26	1.80	2.29	3.27
	O.T.	4600	4460	4280	4170	3970
45:1 1.8 x 25	Me.HP	0.23	1.10	1.55	1.92	2.55
	Th.HP	0.23	1.10	1.55	1.92	2.55
	O.T.	4300	4050	3890	3730	3340
50:1 2.5 x 20	Me.HP	0.20	1.02	1.46	1.84	2.55
	Th.HP	0.20	1.02	1.46	1.84	2.55
	O.T.	4470	4160	4040	3960	3690
54:1 1.8 x 30	Me.HP	0.19	0.92	1.29	1.61	2.14
	Th.HP	0.19	0.92	1.29	1.61	2.14
	O.T.	4110	3780	3630	3510	3200
60:1 4 x 15	Me.HP	0.17	0.89	1.26	1.61	2.31
	Th.HP	0.17	0.89	1.26	1.61	2.31
	O.T.	4620	4500	4330	4220	4050
62.5:1 2.5 x 25	Me.HP	0.17	0.82	1.18	1.48	2.06
	Th.HP	0.17	0.82	1.18	1.48	2.06
	O.T.	4300	4120	4030	3920	3660
72:1 1.8 x 40	Me.HP	0.14	0.69	0.97	1.21	1.61
	Th.HP	0.14	0.69	0.97	1.21	1.61
	O.T.	3700	3560	3480	3370	3050
75:1 2.5 x 30	Me.HP	0.14	0.69	0.98	1.24	1.72
	Th.HP	0.14	0.69	0.98	1.24	1.72
	O.T.	4110	3870	3760	3650	3470
80:1 4 x 20	Me.HP	0.13	0.68	0.97	1.23	1.77
	Th.HP	0.13	0.68	0.97	1.23	1.77
	O.T.	4470	4350	4190	4080	3980
90:1 1.8 x 50	Me.HP	0.12	0.56	0.78	0.97	1.29
	Th.HP	0.12	0.56	0.78	0.97	1.29
	O.T.	3280	3400	3380	3290	2940
100:1 4 x 25	Me.HP	0.11	0.55	0.78	0.99	1.43
	Th.HP	0.11	0.55	0.78	0.99	1.43
	O.T.	4300	4220	4130	4080	3940
108:1 1.8 x 60	Me.HP	0.10	0.46	0.65	0.81	1.08
	Th.HP	0.10	0.46	0.65	0.81	1.08
	O.T.	3230	3260	3200	3110	2830
120:1 4 x 30	Me.HP	0.09	0.46	0.65	0.83	1.19
	Th.HP	0.09	0.46	0.65	0.83	1.19
	O.T.	4110	4000	3880	3810	3680
125:1 2.5 x 50	Me.HP	0.09	0.42	0.59	0.75	1.04
	Th.HP	0.09	0.42	0.59	0.75	1.04
	O.T.	3280	3370	3400	3390	3230
150:1 2.5 x 60	Me.HP	0.07	0.35	0.50	0.63	0.87
	Th.HP	0.07	0.35	0.50	0.63	0.87
	O.T.	3230	3290	3260	3210	3070
160:1 4 x 40	Me.HP	0.07	0.35	0.49	0.63	0.90
	Th.HP	0.07	0.35	0.49	0.63	0.90
	O.T.	3700	3610	3520	3550	3510
200:1 4 x 50	Me.HP	0.06	0.28	0.39	0.50	0.72
	Th.HP	0.06	0.28	0.39	0.50	0.72
	O.T.	3280	3350	3370	3390	3400
240:1 4 x 60	Me.HP	0.05	0.23	0.33	0.42	0.60
	Th.HP	0.05	0.23	0.33	0.42	0.60
	O.T.	3230	3280	3300	3250	3230

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	**GEAR SHAFT NUMBER**	**KEYWAY SIZE**
2.500*	30-S60-208	3/8 x 3/16
2.4375*	30-S60-207	3/8 x 3/16
2.1875*	30-S60-203	1/2 x 1/4
1.9375*	30-S60-115	1/2 x 1/4
1.6875*	30-S60-111	3/8 x 3/16
1.500*	30-S60-108	3/8 x 3/16

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard
Bore Tolerance: +.002, -.000
2 set screws at long end of shaft.

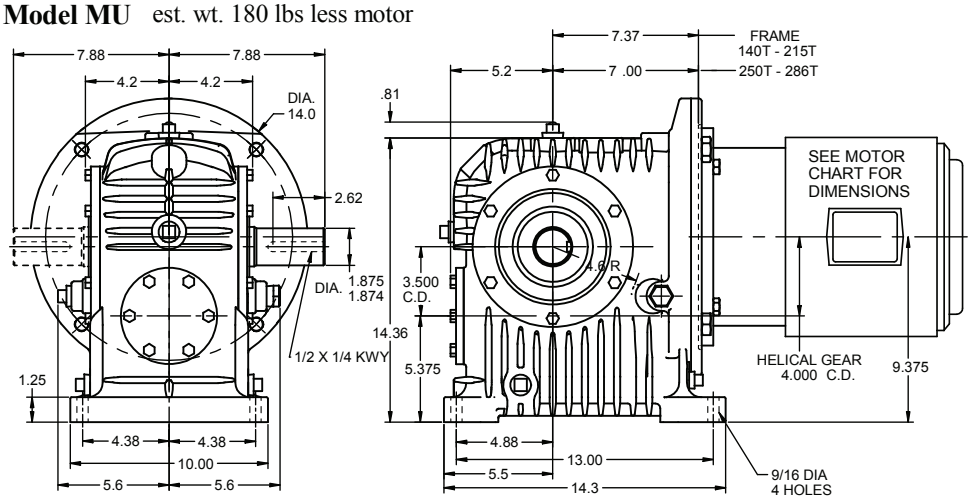
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm D-Flange Gearhead - 3.500" C.D.

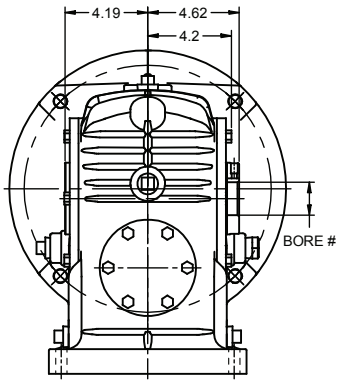
Size 35 Solid Shaft

Hollow Shaft

Model MU est. wt. 180 lbs less motor

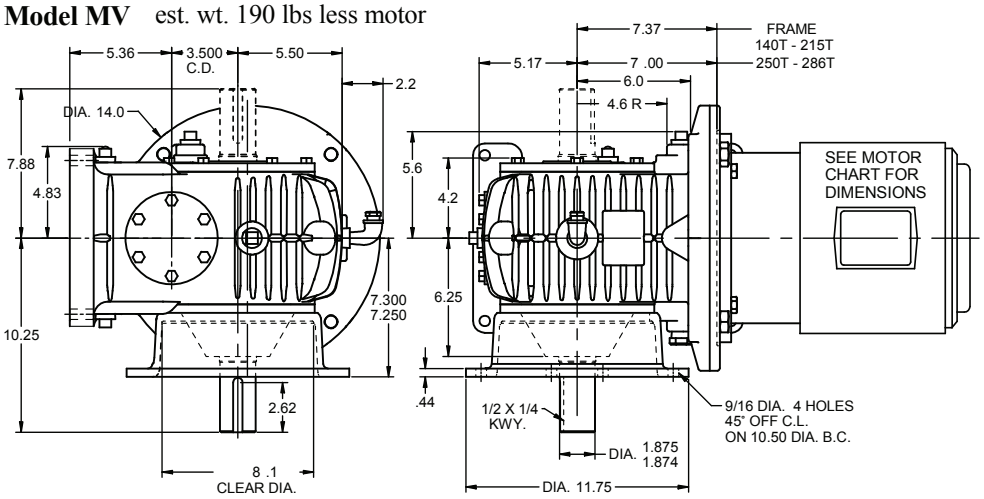


SMU est. wt. 180 lbs less motor



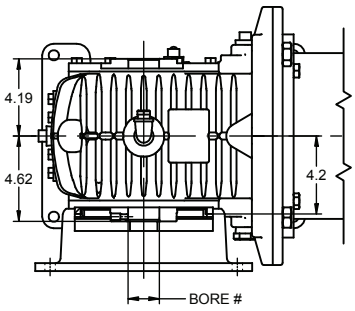
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 190 lbs less motor



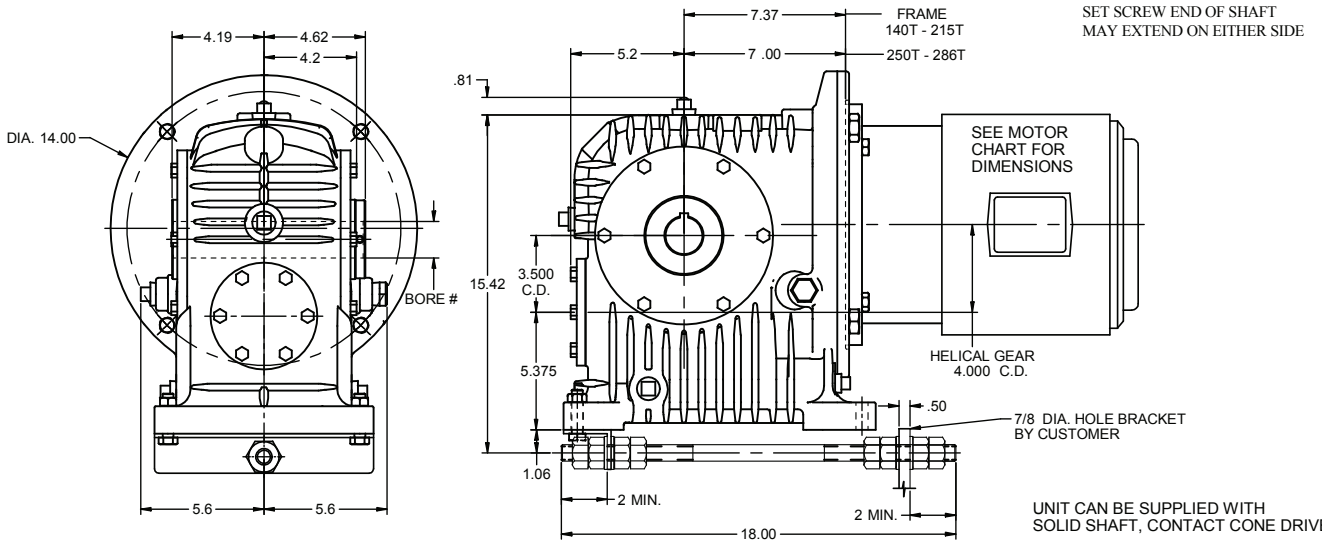
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SMV est. wt. 190 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SM est. wt. 180 lbs less motor



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 35 4.000" C.D. HELICAL PRI./3.500" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	1.66	8.93	13.1	16.4	20.3
	Th.HP	1.66	8.93	11.7	11.9	12.2
	O.T.	4520	4290	4200	4000	3280
7.5:1 1.5 x 5	Me.HP	1.38	7.45	10.9	13.2	16.5
	Th.HP	1.38	7.45	10.1	10.7	12.2
	O.T.	5520	5340	5240	4800	3970
9:1 1.8 x 5	Me.HP	1.20	6.50	9.53	11.9	15.0
	Th.HP	1.20	6.50	9.53	10.2	12.2
	O.T.	5720	5580	5480	5180	4310
10:1 1 x 10	Me.HP	1.66	7.37	9.50	11.1	13.8
	Th.HP	1.66	7.37	9.30	10.2	10.3
	O.T.	8430	6790	5910	5250	4360
12.5:1 2.5 x 5	Me.HP	0.96	5.26	7.68	9.52	12.5
	Th.HP	0.96	5.26	7.68	9.20	10.4
	O.T.	6300	6240	6110	5750	4980
15:1 1.5 x 10	Me.HP	1.14	5.40	7.37	8.84	11.1
	Th.HP	1.14	5.40	7.37	8.84	10.2
	O.T.	8510	7370	6790	6220	5210
18:1 1.8 x 10	Me.HP	0.96	4.65	6.44	7.87	10.1
	Th.HP	0.96	4.65	6.44	7.87	10.1
	O.T.	8510	7580	7080	6600	5640
20:1 1 x 20	Me.HP	0.90	3.99	5.18	6.04	7.55
	Th.HP	0.90	3.99	5.18	6.04	7.55
	O.T.	8270	6950	6080	5390	4480
22.5:1 1.5 x 15	Me.HP	0.80	3.80	5.21	6.28	7.92
	Th.HP	0.80	3.80	5.21	6.28	7.92
	O.T.	8540	7490	7000	6480	5460
25:1 2.5 x 10	Me.HP	0.70	3.50	4.96	6.20	8.36
	Th.HP	0.70	3.50	4.96	6.20	8.36
	O.T.	8510	7840	7500	7150	6420
27:1 1.8 x 15	Me.HP	0.67	3.27	4.54	5.57	7.18
	Th.HP	0.67	3.27	4.54	5.57	7.18
	O.T.	8540	7650	7250	6830	5920
30:1 1.5 x 20	Me.HP	0.61	2.91	3.99	4.82	6.08
	Th.HP	0.61	2.91	3.99	4.82	6.08
	O.T.	8270	7340	6950	6390	5360
36:1 1.8 x 20	Me.HP	0.51	2.50	3.48	4.28	5.52
	Th.HP	0.51	2.50	3.48	4.28	5.52
	O.T.	8270	7450	7150	6770	5810
37.5:1 2.5 x 15	Me.HP	0.49	2.46	3.49	4.37	5.92
	Th.HP	0.49	2.46	3.49	4.37	5.92
	O.T.	8540	7920	7600	7310	6660
40:1 4 x 10	Me.HP	0.45	2.32	3.31	4.22	5.96
	Th.HP	0.45	2.32	3.31	4.22	5.96
	O.T.	8510	8210	7890	7680	7220
45:1 1.8 x 25	Me.HP	0.42	2.02	2.81	3.45	4.46
	Th.HP	0.42	2.02	2.81	3.45	4.46
	O.T.	7950	7440	7070	6690	5820
50:1 2.5 x 20	Me.HP	0.38	1.88	2.67	3.35	4.54
	Th.HP	0.38	1.88	2.67	3.35	4.54
	O.T.	8270	7660	7420	7200	6580
54:1 1.8 x 30	Me.HP	0.35	1.69	2.35	2.89	3.73
	Th.HP	0.35	1.69	2.35	2.89	3.73
	O.T.	7600	6950	6590	6300	5590
60:1 4 x 15	Me.HP	0.31	1.63	2.33	2.97	4.20
	Th.HP	0.31	1.63	2.33	2.97	4.20
	O.T.	8540	8270	7970	7780	7360
62.5:1 2.5 x 25	Me.HP	0.31	1.52	2.16	2.70	3.66
	Th.HP	0.31	1.52	2.16	2.70	3.66
	O.T.	7950	7580	7390	7120	6520
72:1 1.8 x 40	Me.HP	0.27	1.27	1.77	2.18	2.81
	Th.HP	0.27	1.27	1.77	2.18	2.81
	O.T.	6830	6540	6320	6050	5330
75:1 2.5 x 30	Me.HP	0.26	1.27	1.81	2.26	3.07
	Th.HP	0.26	1.27	1.81	2.26	3.07
	O.T.	7600	7120	6900	6640	6180

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
80:1 4 x 20	Me.HP	0.24	1.25	1.78	2.27	3.22
	Th.HP	0.24	1.25	1.78	2.27	3.22
	O.T.	8270	8010	7710	7520	7250
90:1 1.8 x 50	Me.HP	0.22	1.02	1.42	1.75	2.26
	Th.HP	0.22	1.02	1.42	1.75	2.26
	O.T.	6070	6240	6140	5900	5130
100:1 4 x 25	Me.HP	0.20	1.01	1.43	1.83	2.60
	Th.HP	0.20	1.01	1.43	1.83	2.60
	O.T.	7950	7770	7610	7510	7180
108:1 1.8 x 60	Me.HP	0.18	0.85	1.19	1.46	1.88
	Th.HP	0.18	0.85	1.19	1.46	1.88
	O.T.	5970	5990	5810	5580	4940
120:1 4 x 30	Me.HP	0.17	0.84	1.20	1.53	2.17
	Th.HP	0.17	0.84	1.20	1.53	2.17
	O.T.	7600	7360	7150	7010	6690
125:1 2.5 x 50	Me.HP	0.16	0.77	1.09	1.37	1.85
	Th.HP	0.16	0.77	1.09	1.37	1.85
	O.T.	6070	6210	6240	6160	5740
150:1 2.5 x 60	Me.HP	0.14	0.64	0.91	1.14	1.55
	Th.HP	0.14	0.64	0.91	1.14	1.55
	O.T.	5970	6050	5980	5840	5460
160:1 4 x 40	Me.HP	0.13	0.64	0.90	1.15	1.64
	Th.HP	0.13	0.64	0.90	1.15	1.64
	O.T.	6830	6650	6480	6530	6390
200:1 4 x 50	Me.HP	0.10	0.51	0.73	0.93	1.31
	Th.HP	0.10	0.51	0.73	0.93	1.31
	O.T.	6070	6160	6200	6240	6180
240:1 4 x 60	Me.HP	0.09	0.43	0.61	0.77	1.10
	Th.HP	0.09	0.43	0.61	0.77	1.10
	O.T.	5970	6040	6070	5990	5870

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
2.7500	35-S60-212	3/8 x 3/16
2.6875*	35-S60-211	3/8 x 3/16
2.500	35-S60-208	3/8 x 3/16
2.4375*	35-S60-207	5/8 x 5/16
2.1875*	35-S60-203	1/2 x 1/4
1.9375*	35-S60-115	1/2 x 1/4
1.6875*	35-S60-111	3/8 x 3/16

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.002, -.000
2 set screws at long end of shaft.

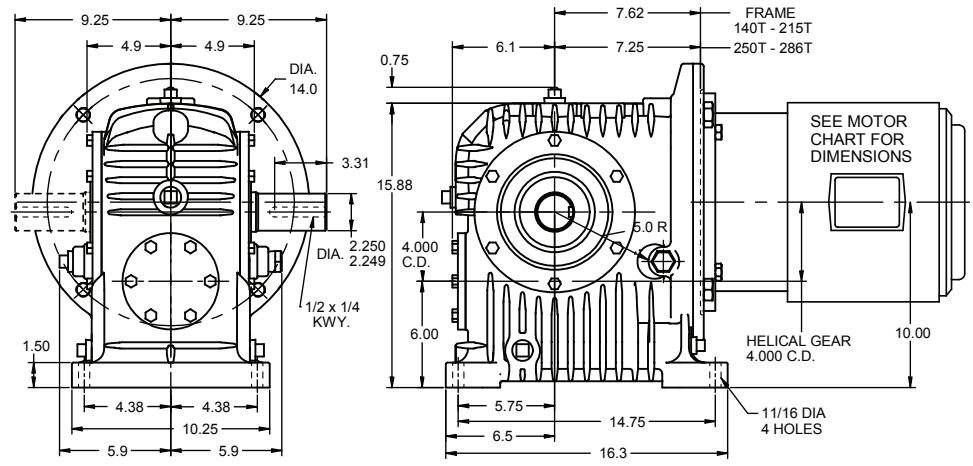
Important: In any applications of Cone Drive products where breakage,damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm D-Flange Gearhead - 4.000" C.D.

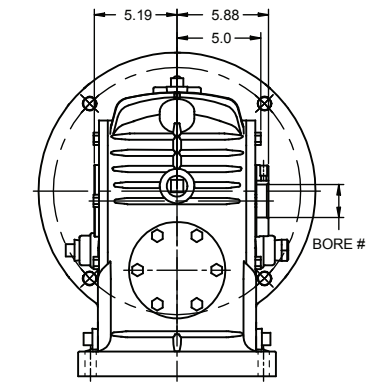
Size 40 Solid Shaft

Hollow Shaft

Model MU est. wt. 230 lbs less motor

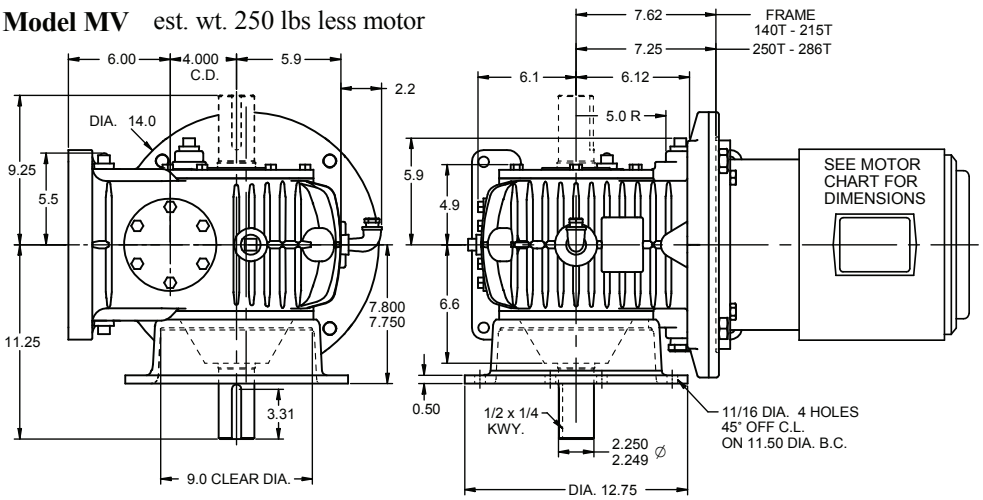


SMU est. wt. 230 lbs less motor



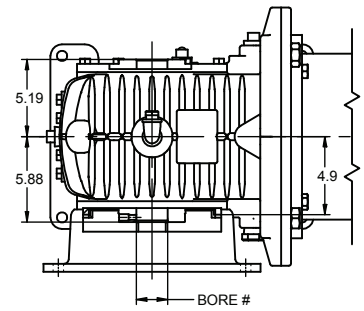
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 250 lbs less motor



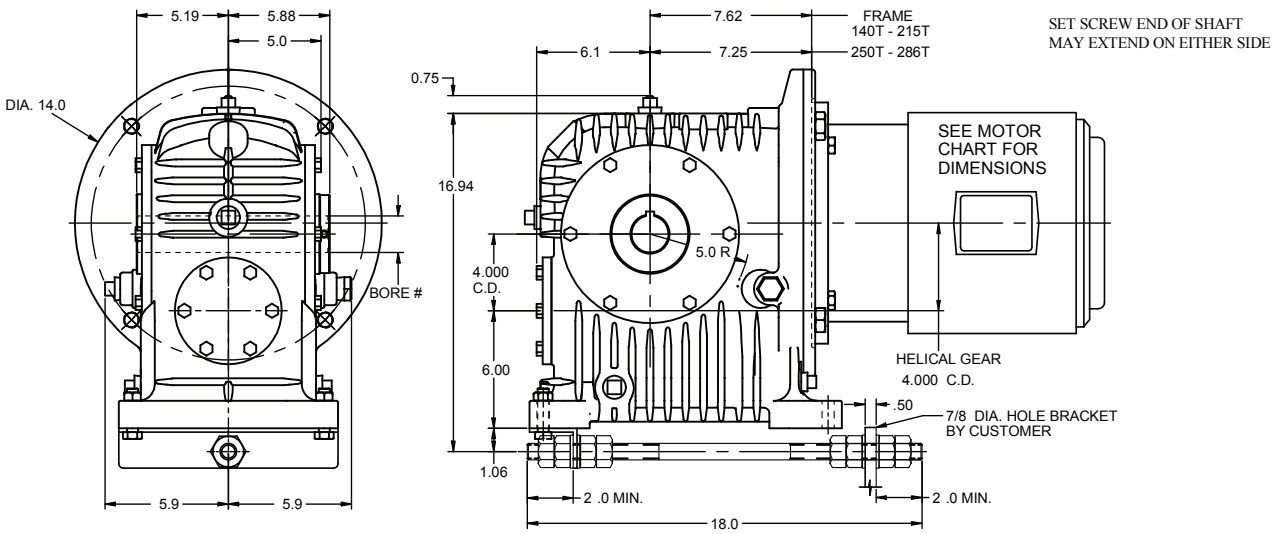
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SMV est. wt. 250 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SM est. wt. 230 lbs less motor



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED WITH
SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 40 4.000" C.D. HELICAL PRI./4.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
5:1 1 x 5	Me.HP	1.66	8.93	13.1	16.9	24.9
	Th.HP	1.66	8.93	13.1	16.9	18.7
	O.T.	4670	4430	4340	4270	4140
7.5:1 1.5 x 5	Me.HP	1.38	7.45	10.9	14.2	20.9
	Th.HP	1.38	7.45	10.9	14.2	18.7
	O.T.	5710	5520	5410	5330	5190
9:1 1.8 x 5	Me.HP	1.20	6.50	9.53	12.4	18.3
	Th.HP	1.20	6.50	9.53	12.4	17.9
	O.T.	5920	5770	5660	5580	5440
10:1 1 x 10	Me.HP	1.66	8.93	13.1	15.3	19
	Th.HP	1.66	8.93	13.1	15.3	15.4
	O.T.	8730	8520	8400	7490	6190
12.5:1 2.5 x 5	Me.HP	0.96	5.26	7.72	10.0	14.8
	Th.HP	0.96	5.26	7.72	10.0	14.8
	O.T.	6520	6450	6350	6260	6110
15:1 1.5 x 10	Me.HP	1.38	7.45	10.3	12.3	15.4
	Th.HP	1.38	7.45	10.3	12.3	15.2
	O.T.	10700	10500	9860	8910	7440
18:1 1.8 x 10	Me.HP	1.20	6.50	9.13	11.0	13.9
	Th.HP	1.20	6.50	9.13	11.0	13.9
	O.T.	11100	11000	10400	9580	8050
20:1 1 x 20	Me.HP	1.30	5.62	7.17	8.34	10.4
	Th.HP	1.30	5.62	7.17	8.34	10.4
	O.T.	12400	10100	8720	7710	6380
22.5:1 1.5 x 15	Me.HP	1.15	5.43	7.33	8.70	10.9
	Th.HP	1.15	5.43	7.33	8.70	10.9
	O.T.	12800	11100	10200	9300	7790
25:1 2.5 x 10	Me.HP	0.96	5.04	7.07	8.80	11.6
	Th.HP	0.96	5.04	7.07	8.80	11.6
	O.T.	12200	11700	11100	10500	9240
27:1 1.8 x 15	Me.HP	0.97	4.69	6.45	7.82	9.91
	Th.HP	0.97	4.69	6.45	7.82	9.91
	O.T.	12800	11400	10700	9920	8460
30:1 1.5 x 20	Me.HP	0.88	4.16	5.62	6.68	8.4
	Th.HP	0.88	4.16	5.62	6.68	8.4
	O.T.	12400	10900	10100	9190	7670
36:1 1.8 x 20	Me.HP	0.74	3.59	4.94	5.99	7.62
	Th.HP	0.74	3.59	4.94	5.99	7.62
	O.T.	12400	11100	10500	9840	8300
37.5:1 2.5 x 15	Me.HP	0.70	3.54	4.99	6.21	8.26
	Th.HP	0.70	3.54	4.99	6.21	8.26
	O.T.	12800	11800	11200	10800	9620
40:1 4 x 10	Me.HP	0.61	3.18	4.60	5.91	8.47
	Th.HP	0.61	3.18	4.60	5.91	8.47
	O.T.	12100	11700	11400	11100	10600
45:1 1.8 x 25	Me.HP	0.60	2.89	3.99	4.84	6.15
	Th.HP	0.60	2.89	3.99	4.84	6.15
	O.T.	11900	11100	10400	9730	8330
50:1 2.5 x 20	Me.HP	0.54	2.71	3.82	4.76	6.35
	Th.HP	0.54	2.71	3.82	4.76	6.35
	O.T.	12400	11500	11000	10600	9530
54:1 1.8 x 30	Me.HP	0.50	2.42	3.34	4.06	5.16
	Th.HP	0.50	2.42	3.34	4.06	5.16
	O.T.	11400	10400	9740	9190	8010
60:1 4 x 15	Me.HP	0.45	2.35	3.35	4.25	5.98
	Th.HP	0.45	2.35	3.35	4.25	5.98
	O.T.	12800	12300	11900	11600	10900
62.5:1 2.5 x 25	Me.HP	0.44	2.19	3.08	3.84	5.13
	Th.HP	0.44	2.19	3.08	3.84	5.13
	O.T.	11900	11300	11000	10500	9450
72:1 1.8 x 40	Me.HP	0.38	1.82	2.52	3.05	3.88
	Th.HP	0.38	1.82	2.52	3.05	3.88
	O.T.	10300	9790	9360	8840	7650
75:1 2.5 x 30	Me.HP	0.37	1.83	2.58	3.22	4.30
	Th.HP	0.37	1.83	2.58	3.22	4.30
	O.T.	11400	10700	10300	9830	8990
80:1 4 x 20	Me.HP	0.35	1.80	2.56	3.26	4.58
	Th.HP	0.35	1.80	2.56	3.26	4.58
	O.T.	12400	12000	11500	11200	10700
90:1 1.8 x 50	Me.HP	0.31	1.46	2.02	2.45	3.12
	Th.HP	0.31	1.46	2.02	2.45	3.12
	O.T.	9240	9360	9110	8620	7380
100:1 4 x 25	Me.HP	0.28	1.45	2.06	2.63	3.70
	Th.HP	0.28	1.45	2.06	2.63	3.70
	O.T.	11900	11600	11400	11200	10600
108:1 1.8 x 60	Me.HP	0.26	1.22	1.68	2.05	2.60
	Th.HP	0.26	1.22	1.68	2.05	2.60
	O.T.	9100	9010	8640	8180	7110
120:1 4 x 30	Me.HP	0.24	1.21	1.73	2.20	3.10
	Th.HP	0.24	1.21	1.73	2.20	3.10
	O.T.	11400	11000	10700	10500	9920
125:1 2.5 x 50	Me.HP	0.23	1.10	1.56	1.94	2.60
	Th.HP	0.23	1.10	1.56	1.94	2.60
	O.T.	9240	9370	9330	9150	8380
150:1 2.5 x 60	Me.HP	0.20	0.92	1.30	1.62	2.17
	Th.HP	0.20	0.92	1.30	1.62	2.17
	O.T.	9100	9150	8950	8700	7990
160:1 4 x 40	Me.HP	0.18	0.91	1.30	1.66	2.33
	Th.HP	0.18	0.91	1.30	1.66	2.33
	O.T.	10300	10000	9770	9800	9490
200:1 4 x 50	Me.HP	0.15	0.73	1.04	1.33	1.87
	Th.HP	0.15	0.73	1.04	1.33	1.87
	O.T.	9240	9320	9360	9380	9200
240:1 4 x 60	Me.HP	0.13	0.61	0.87	1.11	1.56
	Th.HP	0.13	0.61	0.87	1.11	1.56
	O.T.	9100	9160	9170	9030	8760

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Set screw end of hollow shaft is considered the extension end.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
2.9375*	40-S60-215	5/8 X 5/16
2.6875*	40-S60-211	5/8 X 5/16
2.4375*	40-S60-207	5/8 X 5/16
2.1875*	40-S60-203	5/8 X 5/16

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

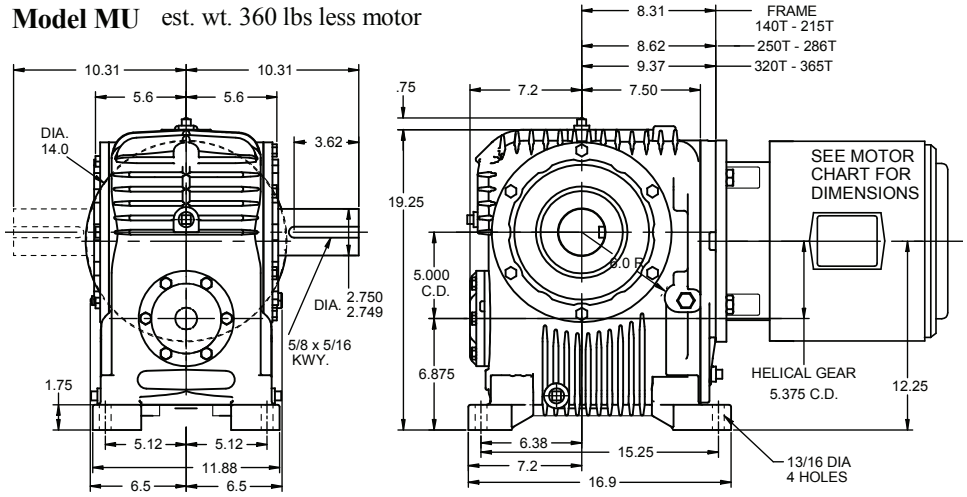
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm D-Flange Gearhead - 5.000" C.D.

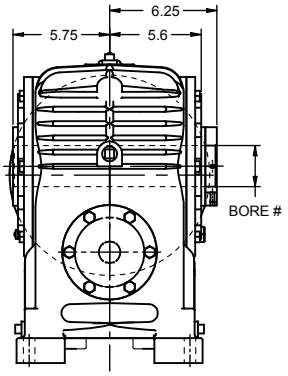
Size 50 Solid Shaft

Hollow Shaft

Model MU est. wt. 360 lbs less motor

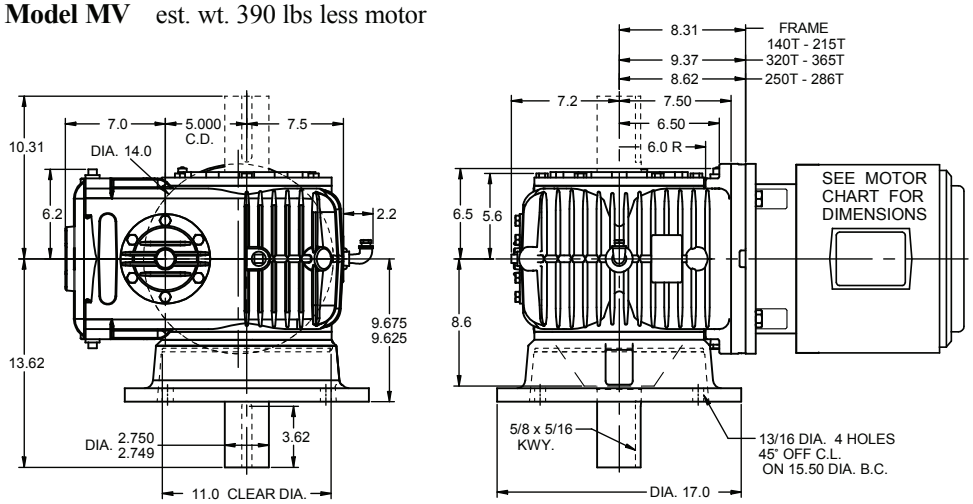


SMU est. wt. 360 lbs less motor



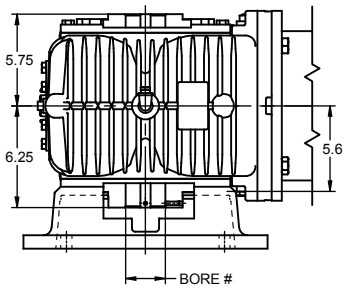
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 390 lbs less motor



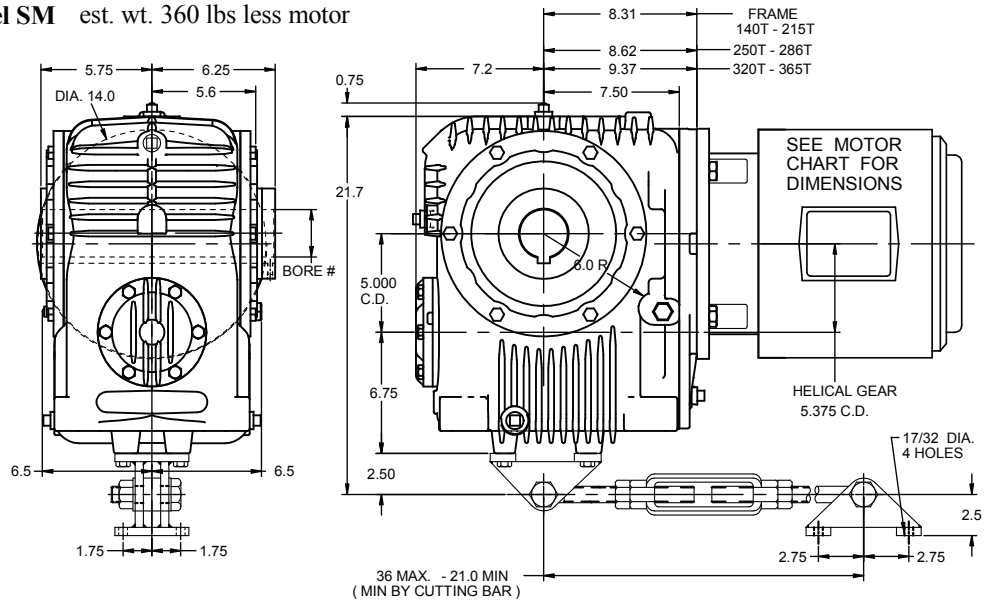
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SMV est. wt. 390 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SM est. wt. 360 lbs less motor



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 50 5.375" C.D. HELICAL PRI./5.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
5:1 1 x 5	Me.HP	3.91	20.8	30.4	39.2	48.8
	Th.HP	3.91	19.8	23.7	24.2	24.8
	O.T.	11000	10300	10100	9900	8140
7.5:1 1.5 x 5	Me.HP	3.23	17.3	25.3	32.7	41.1
	Th.HP	3.23	17.3	20.3	21.4	24.8
	O.T.	13400	12800	12500	12300	10200
9:1 1.8 x 5	Me.HP	2.82	15.2	22.2	28.8	37.6
	Th.HP	2.82	15.2	18.8	20.6	24.8
	O.T.	13900	13500	13200	13000	11500
10:1 1 x 10	Me.HP	3.91	19.3	24.1	28	34.3
	Th.HP	3.91	15.1	18.3	20.2	20.5
	O.T.	20600	18400	15500	13800	11200
12.5:1 2.5 x 5	Me.HP	2.27	12.3	18.0	23.4	31.5
	Th.HP	2.27	12.3	16.7	18.4	20.5
	O.T.	15400	15100	14800	14600	13000
15:1 1.5 x 10	Me.HP	3.23	14.9	19.3	22.6	28.3
	Th.HP	3.23	12.7	14.9	17.8	20.2
	O.T.	25000	21000	18400	16400	13700
18:1 1.8 x 10	Me.HP	2.71	12.9	17.3	20.4	25.6
	Th.HP	2.71	11.3	13.7	15.7	19.8
	O.T.	25100	21800	19700	17700	14800
20:1 1 x 20	Me.HP	2.57	10.6	13.2	15.3	18.9
	Th.HP	2.57	10.6	13.0	12.7	13.1
	O.T.	24500	19000	16000	14200	11600
22.5:1 1.5 x 15	Me.HP	2.27	10.5	13.7	16.0	20.1
	Th.HP	2.27	10.5	12.9	14.3	16.9
	O.T.	25200	21400	19100	17100	14300
25:1 2.5 x 10	Me.HP	1.98	9.91	13.7	16.7	21.5
	Th.HP	1.98	9.91	11.5	13.4	17.2
	O.T.	25100	23000	21500	20000	17100
27:1 1.8 x 15	Me.HP	1.91	9.11	12.3	14.5	18.2
	Th.HP	1.91	9.11	11.0	13.0	16.2
	O.T.	25200	22100	20200	18400	15500
30:1 1.5 x 20	Me.HP	1.74	8.04	10.6	12.3	15.4
	Th.HP	1.74	8.04	10.6	12.0	13.2
	O.T.	24500	21000	19000	16900	14100
36:1 1.8 x 20	Me.HP	1.46	6.98	9.40	11.2	14
	Th.HP	1.46	6.98	9.40	11.2	12.7
	O.T.	24500	21600	20000	18300	15300
37.5:1 2.5 x 15	Me.HP	1.39	6.97	9.68	11.9	15.3
	Th.HP	1.39	6.97	9.68	10.6	13.4
	O.T.	25200	23300	21800	20500	17800
40:1 4 x 10	Me.HP	1.26	6.59	9.37	11.8	16.2
	Th.HP	1.26	6.30	8.20	9.70	11.7
	O.T.	25100	24100	23200	22200	20300
45:1 1.8 x 25	Me.HP	1.19	5.63	7.59	9.01	11.32
	Th.HP	1.19	5.63	7.59	9.01	11.3
	O.T.	23600	21600	19800	18100	15300
50:1 2.5 x 20	Me.HP	1.07	5.33	7.41	9.1	11.73
	Th.HP	1.07	5.33	7.41	9.1	11.3
	O.T.	24500	22600	21400	20300	17600
54:1 1.8 x 30	Me.HP	1.00	4.72	6.36	7.55	9.48
	Th.HP	1.00	4.72	6.36	7.55	9.48
	O.T.	22600	20200	18500	17100	14700
60:1 4 x 15	Me.HP	0.88	4.63	6.60	8.32	11.5
	Th.HP	0.88	4.63	6.60	7.80	10.3
	O.T.	25200	24300	23400	22600	20800
62.5:1 2.5 x 25	Me.HP	0.87	4.30	5.98	7.35	9.49
	Th.HP	0.87	4.30	5.98	7.35	9.49
	O.T.	23600	22400	21300	20100	17500
72:1 1.8 x 40	Me.HP	0.76	3.55	4.79	5.69	7.14
	Th.HP	0.76	3.55	4.79	5.69	7.14
	O.T.	20400	19000	17800	16500	14100
75:1 2.5 x 30	Me.HP	0.73	3.60	5.01	6.16	7.95
	Th.HP	0.73	3.60	5.01	6.16	7.95
	O.T.	22600	21000	19900	18800	16600
80:1 4 x 20	Me.HP	0.68	3.54	5.05	6.37	8.79
	Th.HP	0.68	3.54	5.05	6.37	8.79
	O.T.	24500	23600	22700	21900	20500
90:1 1.8 x 50	Me.HP	0.61	2.85	3.84	4.57	5.73
	Th.HP	0.61	2.85	3.84	4.57	5.73
	O.T.	18200	18200	17400	16100	13600
100:1 4 x 25	Me.HP	0.56	2.86	4.07	5.14	7.09
	Th.HP	0.56	2.86	4.07	5.14	7.09
	O.T.	23600	22900	22500	21900	20400
108:1 1.8 x 60	Me.HP	0.52	2.38	3.21	3.81	4.79
	Th.HP	0.52	2.38	3.21	3.81	4.79
	O.T.	17900	17500	16500	15200	13100
120:1 4 x 30	Me.HP	0.47	2.39	3.41	4.30	5.94
	Th.HP	0.47	2.39	3.41	4.30	5.94
	O.T.	22600	21800	21200	20500	19000
125:1 2.5 x 50	Me.HP	0.45	2.18	3.03	3.72	4.81
	Th.HP	0.45	2.18	3.03	3.72	4.81
	O.T.	18200	18500	18100	17500	15500
150:1 2.5 x 60	Me.HP	0.39	1.82	2.53	3.11	4.01
	Th.HP	0.39	1.82	2.53	3.11	4.01
	O.T.	17900	18000	17400	16700	14800
160:1 4 x 40	Me.HP	0.36	1.80	2.57	3.24	4.47
	Th.HP	0.36	1.80	2.57	3.24	4.47
	O.T.	20400	19800	19300	19200	18200
175:1 2.5 x 70	Me.HP	0.33	1.56	2.17	2.67	3.44
	Th.HP	0.33	1.56	2.17	2.67	3.44
	O.T.	17600	17700	17100	16400	14600
200:1 4 x 50	Me.HP	0.29	1.45	2.06	2.60	3.59
	Th.HP	0.29	1.45	2.06	2.60	3.59
	O.T.	18200	18400	18500	18300	17700
240:1 4 x 60	Me.HP	0.25	1.21	1.72	2.17	3.00
	Th.HP	0.25	1.21	1.72	2.17	3.00
	O.T.	17900	18000	18100	17600	16800
280:1 4 x 70	Me.HP	0.22	1.04	1.48	1.86	2.57
	Th.HP	0.22	1.04	1.48	1.86	2.57
	O.T.	17600	17800	17800	17400	16600

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEAR SHAFT NUMBER	KEYWAY SIZE
3.4375*	50-S60-307	5/8 X 5/16
3.1875*	50-S60-303	5/8 X 5/16
2.750	50-S60-212	5/8 X 5/16

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

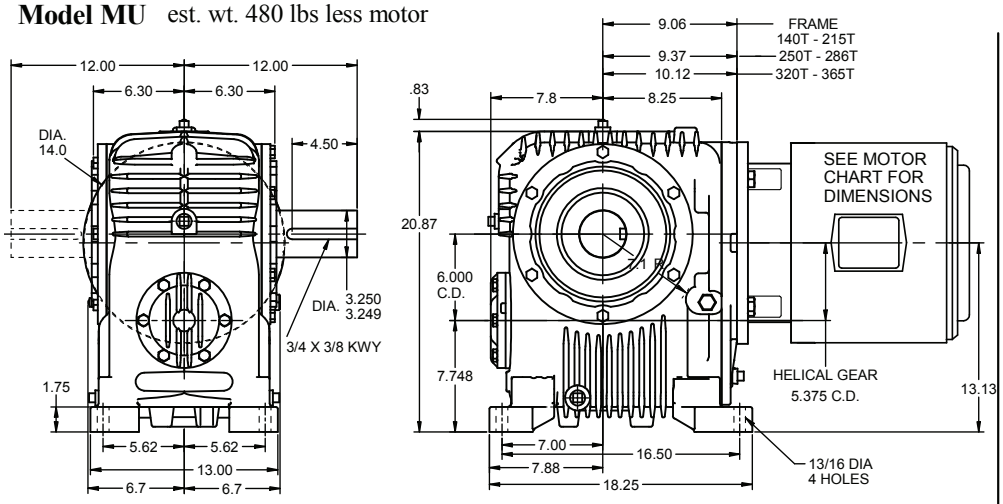
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm D-Flange Gearhead - 6.000" C.D.

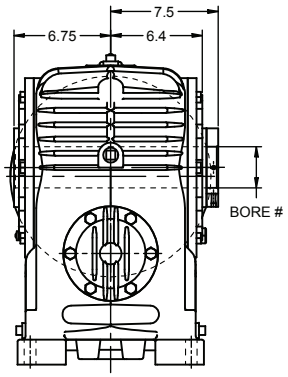
Size 60 Solid Shaft

Hollow Shaft

Model MU est. wt. 480 lbs less motor

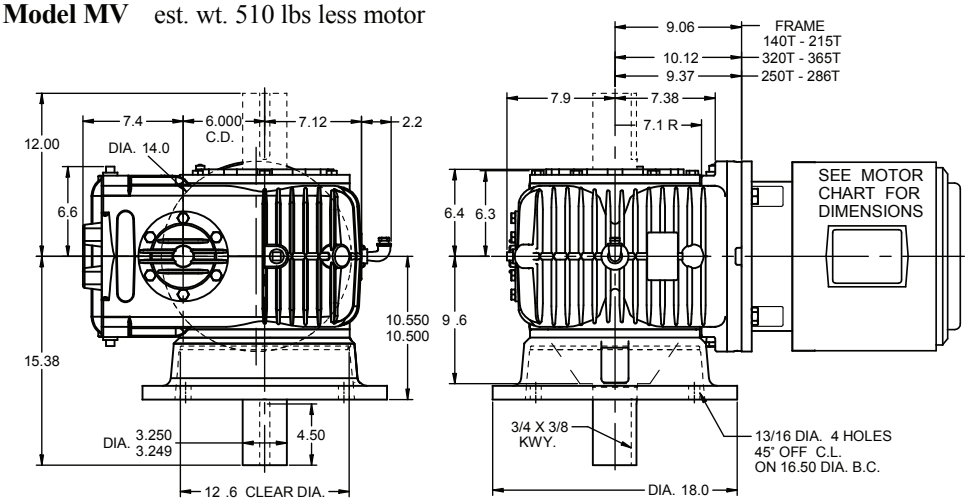


SMU est. wt. 480 lbs less motor

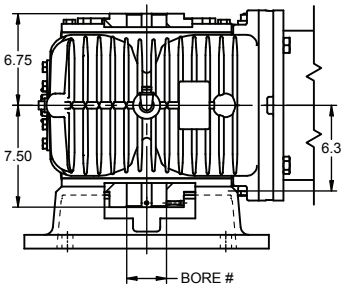


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 510 lbs less motor



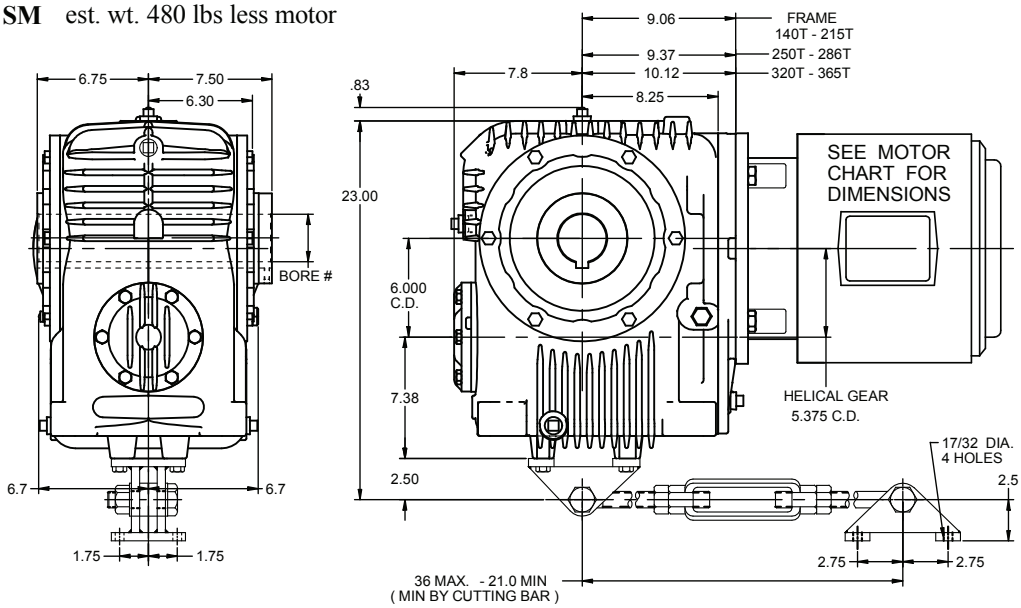
SMV est. wt. 510 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

Model SM est. wt. 480 lbs less motor



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED
WITH SOLID SHAFT,
CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 60 5.375" C.D. HELICAL PRI./6.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	3.91	20.8	30.4	39.2	57.4
	Th.HP	3.91	19.8	25.3	25.8	26.5
	O.T.	11000	10300	10100	9900	9580
7.5:1 1.5 x 5	Me.HP	3.23	17.3	25.3	32.7	48.1
	Th.HP	3.23	17.3	21.6	22.8	26.5
	O.T.	13400	12800	12500	12300	12000
9:1 1.8 x 5	Me.HP	2.82	15.2	22.2	28.8	42.3
	Th.HP	2.82	15.2	20.0	21.9	26.5
	O.T.	13900	13500	13200	13000	12600
10:1 1 x 10	Me.HP	3.91	20.8	30.4	39.2	47.9
	Th.HP	3.91	16.1	19.5	21.5	21.9
	O.T.	20600	19900	19500	19200	15600
12.5:1 2.5 x 5	Me.HP	2.27	12.3	18	23.4	31.1
	Th.HP	2.27	12.3	17.8	19.6	22.3
	O.T.	15400	15100	14800	14600	14100
15:1 1.5 x 10	Me.HP	3.23	17.3	25.3	32.5	40.3
	Th.HP	3.23	13.6	15.8	19.0	21.6
	O.T.	25000	24500	24100	23600	19500
18:1 1.8 x 10	Me.HP	2.82	15.2	22.2	28.8	36.9
	Th.HP	2.82	12.1	14.6	16.7	21.1
	O.T.	26100	25600	25300	25000	21300
20:1 1 x 20	Me.HP	3.91	15.2	19.0	21.9	26.4
	Th.HP	3.91	12.7	13.3	14.3	15.4
	O.T.	37300	27500	23000	20300	16200
22.5:1 1.5 x 15	Me.HP	3.23	15.6	19.8	23.1	28.7
	Th.HP	3.23	11.4	13.8	15.3	18
	O.T.	35800	31700	27600	24600	20400
25:1 2.5 x 10	Me.HP	2.27	12.3	18.0	23.4	30.9
	Th.HP	2.27	10.1	12.3	14.2	18.3
	O.T.	28700	28600	28200	27900	24600
27:1 1.8 x 15	Me.HP	2.82	13.7	17.9	20.9	26.2
	Th.HP	2.82	9.46	11.7	13.9	17.2
	O.T.	37400	33200	29600	26500	22300
30:1 1.5 x 20	Me.HP	2.67	11.9	15.2	17.7	22
	Th.HP	2.67	9.90	12.2	12.8	14
	O.T.	37500	31200	27500	24300	20100
36:1 1.8 x 20	Me.HP	2.24	10.5	13.8	16.1	20.1
	Th.HP	2.24	8.10	10.1	13.6	15.1
	O.T.	37500	32400	29300	26400	21900
37.5:1 2.5 x 15	Me.HP	2.13	10.6	14.5	17.4	22
	Th.HP	2.13	7.95	9.93	11.3	14.2
	O.T.	38600	35300	32600	30100	25600
40:1 4 x 10	Me.HP	1.45	7.47	10.8	13.8	19.8
	Th.HP	1.45	6.80	8.80	10.4	12.5
	O.T.	28700	27300	26600	25900	24800
45:1 1.8 x 25	Me.HP	1.82	8.47	11.1	13	16.3
	Th.HP	1.82	7.60	9.90	10.5	12.6
	O.T.	36100	32400	29000	26100	22000
50:1 2.5 x 20	Me.HP	1.63	8.10	11.1	13.4	16.9
	Th.HP	1.63	6.80	8.30	9.80	12.1
	O.T.	37500	34300	31900	29800	25300
54:1 1.8 x 30	Me.HP	1.52	7.09	9.31	10.9	13.6
	Th.HP	1.52	6.09	7.18	8.55	10.1
	O.T.	34500	30300	27200	24600	21200
60:1 4 x 15	Me.HP	1.35	7.1	10	12.6	16.9
	Th.HP	1.35	5.6	7.1	8.4	11
	O.T.	38600	37300	35700	34100	30700
62.5:1 2.5 x 25	Me.HP	1.33	6.54	8.95	10.8	13.6
	Th.HP	1.33	6.05	7.64	8.97	10.5
	O.T.	36100	33900	31900	29600	25100
72:1 1.8 x 40	Me.HP	1.16	5.34	7.01	8.19	10.3
	Th.HP	1.16	5.10	6.30	7.70	8.70
	O.T.	31200	28600	26100	23700	20200
75:1 2.5 x 30	Me.HP	1.12	5.48	7.5	9.05	11.4
	Th.HP	1.12	5.30	6.40	7.10	9.30
	O.T.	34500	31900	29800	27700	23900
80:1 4 x 20	Me.HP	1.04	5.43	7.69	9.62	13.0
	Th.HP	1.04	4.60	6.00	6.70	9.40
	O.T.	37500	36200	34600	33100	30300
90:1 1.8 x 50	Me.HP	0.94	4.28	5.63	6.57	8.24
	Th.HP	0.94	4.28	5.63	6.57	7.8
	O.T.	27900	27400	25400	23100	19500
100:1 4 x 25	Me.HP	0.85	4.38	6.20	7.76	10.5
	Th.HP	0.85	3.90	5.40	6.30	8.40
	O.T.	36100	35100	34200	33000	30000
108:1 1.8 x 60	Me.HP	0.79	3.58	4.70	5.49	6.88
	Th.HP	0.79	3.58	4.70	5.49	6.78
	O.T.	27500	26400	24100	21900	18800
120:1 4 x 30	Me.HP	0.72	3.67	5.20	6.50	8.77
	Th.HP	0.72	3.50	4.60	5.30	6.80
	O.T.	34500	33400	32200	31000	28100
125:1 2.5 x 50	Me.HP	0.69	3.31	4.53	5.47	6.90
	Th.HP	0.69	3.31	4.53	5.47	6.90
	O.T.	27900	28000	27100	25800	22300
150:1 2.5 x 60	Me.HP	0.59	2.76	3.78	4.57	5.77
	Th.HP	0.59	2.76	3.78	4.57	5.77
	O.T.	27500	27400	26000	24500	21200
160:1 4 x 40	Me.HP	0.56	2.76	3.91	4.89	6.60
	Th.HP	0.56	2.60	3.40	4.20	5.80
	O.T.	31200	30300	29400	28900	26900
175:1 2.5 x 70	Me.HP	0.51	2.37	3.25	3.92	4.95
	Th.HP	0.51	2.37	3.25	3.92	4.95
	O.T.	27000	27000	25600	24100	21000
200:1 4 x 50	Me.HP	0.45	2.22	3.14	3.92	5.30
	Th.HP	0.45	2.10	2.90	3.60	5.10
	O.T.	27900	28100	28100	27700	26000
240:1 4 x 60	Me.HP	0.39	1.85	2.62	3.28	4.42
	Th.HP	0.39	1.85	2.50	3.10	4.40
	O.T.	27500	27700	27600	26700	24800
280:1 4 x 70	Me.HP	0.33	1.59	2.25	2.81	3.80
	Th.HP	0.33	1.50	2.10	2.70	3.80
	O.T.	27000	27200	27200	26300	24400

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
3.69375*	60-S60-315	3/4 X 3/8
3.4375*	60-S60-307	3/4 X 3/8
2.9375*	60-S60-215	3/4 X 3/8

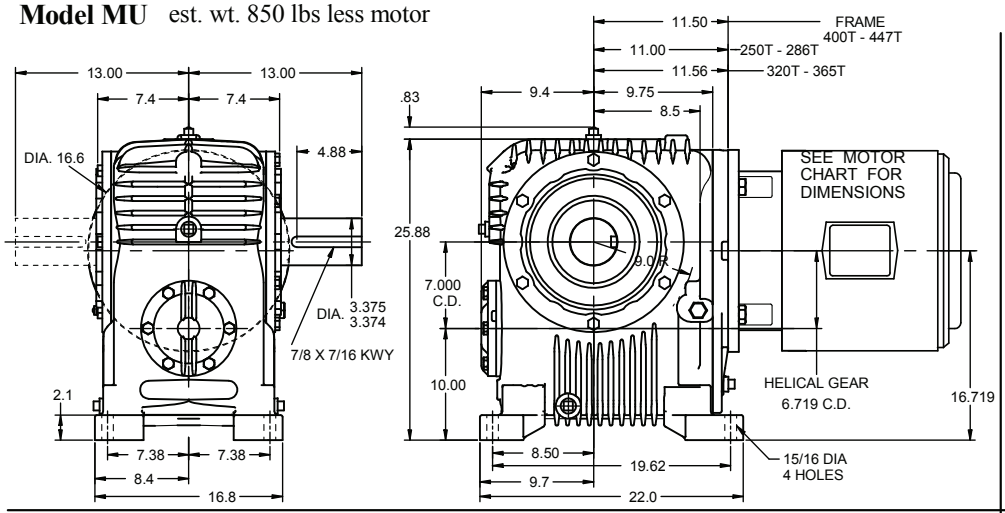
Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard
Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

Cone Drive Helical/Worm D-Flange Gearhead - 7.000" C.D.

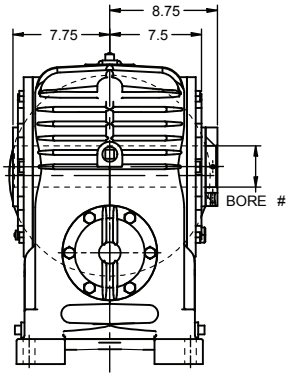
Size 70 Solid Shaft

Hollow Shaft

Model MU est. wt. 850 lbs less motor

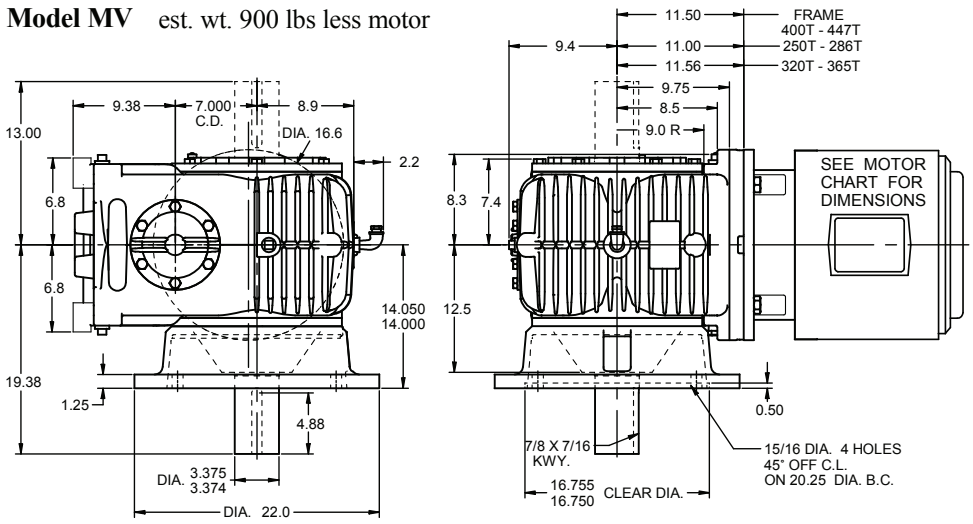


SMU est. wt. 850 lbs less motor

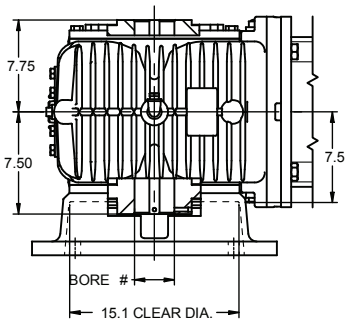


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 900 lbs less motor



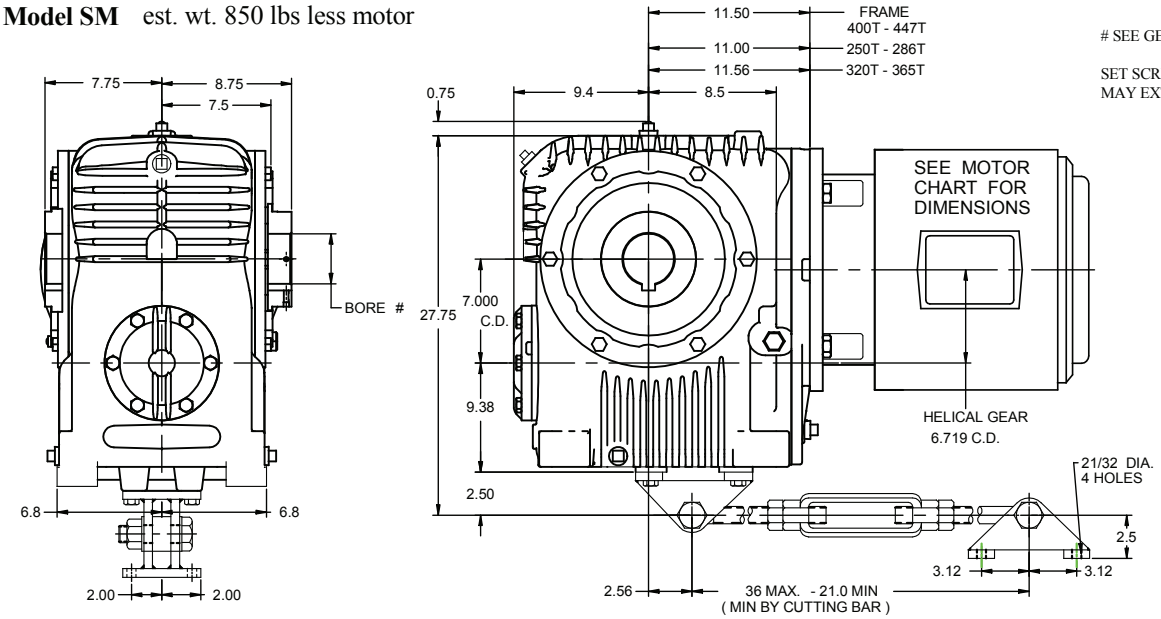
SMV est. wt. 900 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

Model SM est. wt. 850 lbs less motor



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED
WITH SOLID SHAFT,
CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 70 6.719" C.D. HELICAL PRI./7.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
5:1 1 x 5	Me.HP	9.23	48.8	70.9	86.2	99.4
	Th.HP	8.77	31.1	36.6	37.3	38.2
	O.T.	25900	24200	23600	21800	16600
7.5:1 1.5 x 5	Me.HP	7.24	38.6	56.2	71.5	86.7
	Th.HP	7.24	27.9	31.2	32.9	38.2
	O.T.	30000	28500	27900	26900	21600
9:1 1.8 x 5	Me.HP	6.67	35.7	52.0	65.1	80.5
	Th.HP	5.24	24.6	28.9	31.7	38.2
	O.T.	33000	31600	30900	29400	24000
10:1 1 x 10	Me.HP	9.23	42.4	52.7	60.5	70.6
	Th.HP	9.23	23.3	28.1	31.1	31.6
	O.T.	48500	40400	33900	29700	23000
12.5:1 2.5 x 5	Me.HP	5.37	28.9	42.3	54.2	68.4
	Th.HP	4.73	20.1	25.7	28.3	32.2
	O.T.	36400	35500	34700	33800	28200
15:1 1.5 x 10	Me.HP	7.24	33.9	42.4	49.3	61.0
	Th.HP	6.38	19.6	22.9	27.4	31.1
	O.T.	56100	47900	40400	35800	29500
18:1 1.8 x 10	Me.HP	6.57	30.0	38.5	44.7	55.7
	Th.HP	4.18	17.4	21.1	24.1	30.5
	O.T.	60600	50700	43800	38800	32100
20:1 1 x 20	Me.HP	6.21	23.2	28.9	33.2	39.1
	Th.HP	6.21	18.3	19.2	20.7	22.2
	O.T.	59200	41900	35100	30700	24000
22.5:1 1.5 x 15	Me.HP	5.50	24.1	30.2	35.1	43.5
	Th.HP	5.50	16.5	19.9	22.00	26
	O.T.	61100	49100	42100	37500	31000
25:1 2.5 x 10	Me.HP	4.80	23.5	31.6	37.4	46.9
	Th.HP	3.59	14.5	17.7	20.6	26.4
	O.T.	60600	54600	49500	44700	37300
27:1 1.8 x 15	Me.HP	4.61	21.3	27.4	31.9	39.7
	Th.HP	3.82	13.7	16.9	20.1	24.9
	O.T.	61100	51600	45300	40400	33900
30:1 1.5 x 20	Me.HP	4.22	18.5	23.2	27.0	33.4
	Th.HP	4.22	14.2	17.6	18.4	20.3
	O.T.	59200	48200	41900	37100	30500
36:1 1.8 x 20	Me.HP	3.54	16.3	21.0	24.5	30.5
	Th.HP	3.19	11.7	14.6	18.4	19.6
	O.T.	59200	50400	44800	40100	33300
37.5:1 2.5 x 15	Me.HP	3.36	16.6	22.4	26.6	33.5
	Th.HP	3.19	11.5	14.4	16.4	20.5
	O.T.	61100	55500	50500	46100	39000
40:1 4 x 10	Me.HP	3.06	16.0	22.4	27.7	36.4
	Th.HP	2.40	9.80	12.6	15.0	18.0
	O.T.	60600	58500	55300	52200	45600
45:1 1.8 x 25	Me.HP	2.87	13.2	17.0	19.8	24.7
	Th.HP	2.87	11.0	14.3	15.2	18.2
	O.T.	57000	50400	44400	39700	33400
50:1 2.5 x 20	Me.HP	2.59	12.7	17.2	20.4	25.7
	Th.HP	2.59	9.80	12.0	14.2	17.4
	O.T.	59200	53800	49500	45600	38600
54:1 1.8 x 30	Me.HP	2.41	11.0	14.3	16.6	20.7
	Th.HP	2.41	8.80	10.4	12.4	14.6
	O.T.	54700	47200	41600	37600	32200
60:1 4 x 15	Me.HP	2.14	11.2	15.8	19.6	25.9
	Th.HP	2.00	8.00	10.3	12.1	15.9
	O.T.	61100	59000	56100	53300	47000
62.5:1 2.5 x 25	Me.HP	2.11	10.3	13.9	16.5	20.8
	Th.HP	2.11	8.74	11.0	13.0	15.1
	O.T.	57000	53300	49500	45200	38300
72:1 1.8 x 40	Me.HP	1.84	8.31	10.7	12.5	15.6
	Th.HP	1.84	7.40	9.10	11.1	12.6
	O.T.	49400	44600	39900	36100	30700
75:1 2.5 x 30	Me.HP	1.77	8.61	11.7	13.9	17.4
	Th.HP	1.77	7.70	9.30	10.3	13.4
	O.T.	54700	50200	46300	42300	36400

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM 100	580	870	1150	1750
80:1 4 x 20	Me.HP	1.65	8.60	12.1	15.0	19.9
	Th.HP	1.58	6.70	8.60	9.90	13.6
	O.T.	59200	57300	54400	51600	46400
90:1 1.8 x 50	Me.HP	1.48	6.67	8.61	10.0	12.5
	Th.HP	1.48	6.40	8.40	9.90	11.2
	O.T.	44100	42700	38900	35300	29600
100:1 4 x 25	Me.HP	1.35	6.93	9.75	12.1	16.1
	Th.HP	1.30	5.70	7.70	9.10	12.2
	O.T.	57000	55600	53700	51700	46100
108:1 1.8 x 60	Me.HP	1.25	5.57	7.19	8.37	10.5
	Th.HP	1.22	5.30	6.98	8.31	9.79
	O.T.	43400	41000	36900	33500	28600
120:1 4 x 30	Me.HP	1.13	5.81	8.17	10.2	13.5
	Th.HP	1.13	5.00	6.60	7.70	9.90
	O.T.	54700	52900	50700	48400	43200
125:1 2.5 x 50	Me.HP	1.10	5.20	7.04	8.38	10.5
	Th.HP	1.10	5.09	6.60	7.85	10.1
	O.T.	44100	44100	42100	39400	34000
150:1 2.5 x 60	Me.HP	0.93	4.34	5.88	6.99	8.79
	Th.HP	0.93	4.34	5.88	6.99	8.79
	O.T.	43400	43000	40400	37500	32400
160:1 4 x 40	Me.HP	0.88	4.37	6.14	7.65	10.1
	Th.HP	0.88	3.80	5.00	6.10	8.30
	O.T.	49400	47900	46200	45200	41300
175:1 2.5 x 70	Me.HP	0.80	3.72	5.04	6.00	7.55
	Th.HP	0.80	3.72	5.04	6.00	7.55
	O.T.	42700	42400	39800	36900	32000
200:1 4 x 50	Me.HP	0.71	3.51	4.93	6.14	8.14
	Th.HP	0.71	3.00	4.20	5.20	7.30
	O.T.	44100	44600	44200	43300	40000
240:1 4 x 60	Me.HP	0.61	2.93	4.12	5.13	6.80
	Th.HP	0.61	2.50	3.60	4.40	6.40
	O.T.	43400	43800	43300	41700	38100
280:1 4 x 70	Me.HP	0.53	2.51	3.53	4.4	5.84
	Th.HP	0.53	2.10	3.00	3.90	5.80
	O.T.	42700	43100	42700	41100	37500

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified. Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
4.4375*	80-S60-407	1 X 1/2
3.9375*	80-S60-315	1 X 1/2

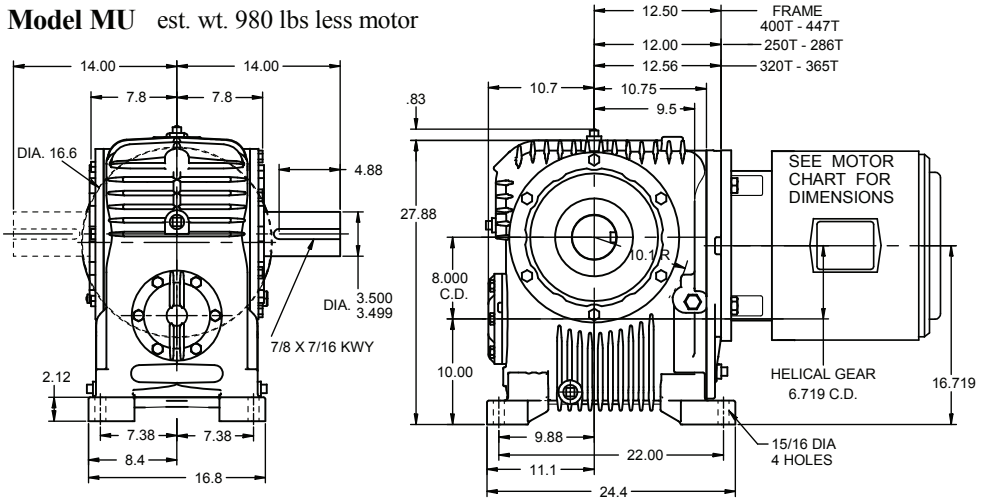
Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard
Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

Important: In any applications of Cone Drive products where breakage,damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm D-Flange Gearhead - 8.000" C.D.

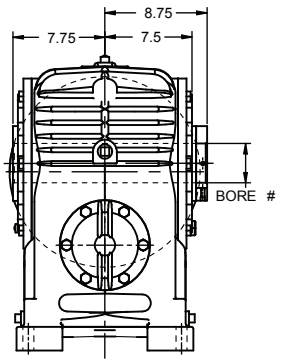
Size 80 Solid Shaft

Model MU est. wt. 980 lbs less motor



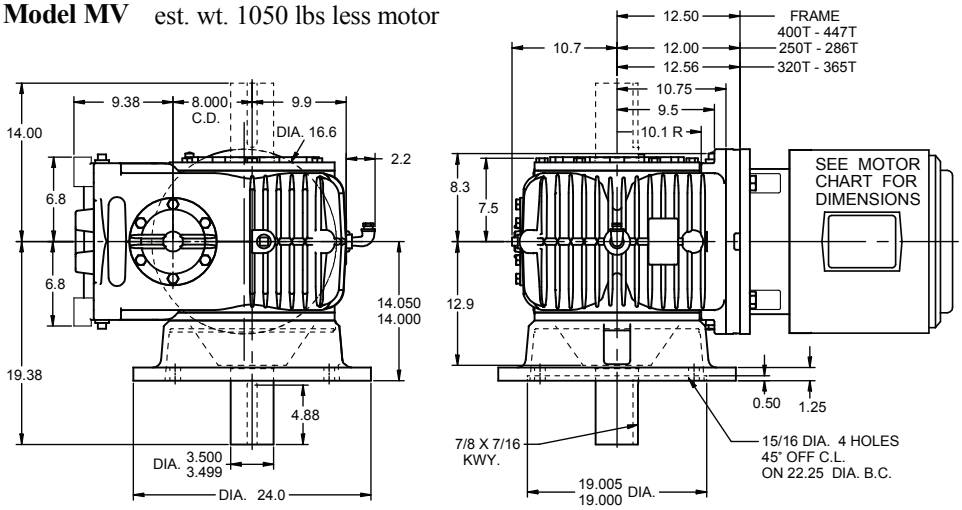
Hollow Shaft

SMU est. wt. 980 lbs less motor



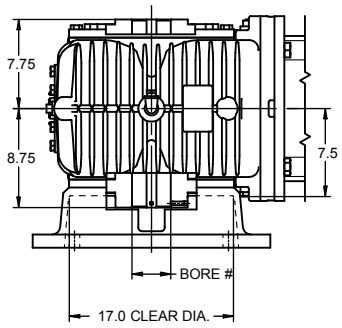
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 1050 lbs less motor



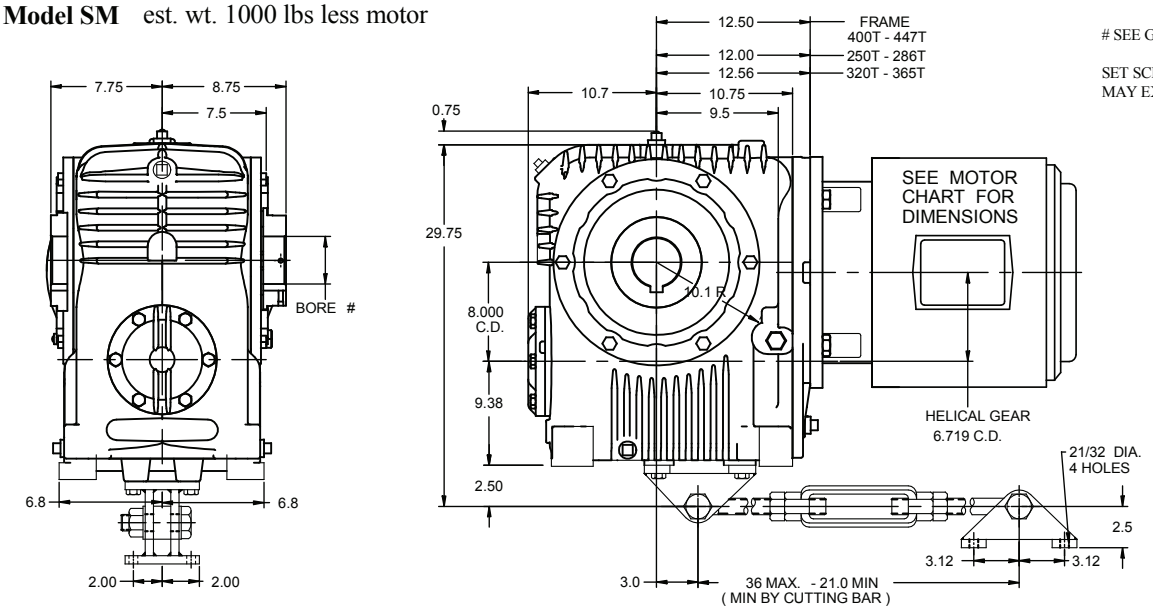
SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

SMV est. wt. 1050 lbs less motor



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SM est. wt. 1000 lbs less motor



SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

UNIT CAN BE SUPPLIED
WITH SOLID SHAFT,
CONTACT CONE DRIVE

Cone Drive Helical/Worm D-Flange Gearhead

Size 80 6.719" C.D. HELICAL PRI./8.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
5:1 1 x 5	Me.HP	9.23	48.8	70.9	91.4	134
	Th.HP	8.77	33.4	39.2	40.0	41.0
	O.T.	25900	24200	23600	23100	22300
7.5:1 1.5 x 5	Me.HP	7.24	38.6	56.2	72.6	106
	Th.HP	7.03	29.9	33.5	35.3	41.0
	O.T.	30000	28500	27900	27300	26400
9:1 1.8 x 5	Me.HP	6.67	35.7	52.0	67.2	98.6
	Th.HP	5.61	26.4	31.0	33.9	41.0
	O.T.	33000	31600	30900	30300	29400
10:1 1 x 10	Me.HP	9.23	48.8	70.9	87.8	102
	Th.HP	8.77	25.0	30.1	33.3	33.9
	O.T.	48500	46500	45600	43100	33200
12.5:1 2.5 x 5	Me.HP	5.37	28.9	42.3	54.2	77.1
	Th.HP	5.37	21.5	27.5	30.4	34.5
	O.T.	36400	35500	34700	33800	31800
15:1 1.5 x 10	Me.HP	7.24	38.6	56.2	71.9	88.3
	Th.HP	6.84	21.0	24.5	29.4	33.4
	O.T.	56100	54500	53500	52300	42700
18:1 1.8 x 10	Me.HP	6.67	35.7	52.0	65.2	81.0
	Th.HP	4.48	18.7	22.6	25.9	32.7
	O.T.	61600	60100	59200	56600	46800
20:1 1 x 20	Me.HP	9.23	34.0	42.2	48.5	56.4
	Th.HP	6.88	19.7	20.6	22.2	23.9
	O.T.	88000	61300	51200	44900	34600
22.5:1 1.5 x 15	Me.HP	7.24	35.4	44.2	51.4	63.4
	Th.HP	6.04	17.7	21.3	23.6	27.9
	O.T.	80400	72100	61500	54900	45200
25:1 2.5 x 10	Me.HP	5.37	28.9	42.3	54.2	68.5
	Th.HP	3.85	15.6	19.0	22.1	28.3
	O.T.	67900	67100	66200	64800	54400
27:1 1.8 x 15	Me.HP	6.67	31.4	40.1	46.6	58.0
	Th.HP	4.10	14.7	18.1	21.5	26.7
	O.T.	88300	76200	66300	59100	49500
30:1 1.5 x 20	Me.HP	6.29	27.1	34.0	39.5	48.8
	Th.HP	5.30	15.3	18.9	19.8	21.7
	O.T.	88500	70900	61300	54200	44500
36:1 1.8 x 20	Me.HP	5.29	24.1	30.8	35.8	44.5
	Th.HP	3.43	12.5	15.7	21.0	22.0
	O.T.	88500	74400	65600	58700	48600
37.5:1 2.5 x 15	Me.HP	5.02	24.7	33.1	39.0	48.9
	Th.HP	3.42	12.3	15.4	17.6	22.0
	O.T.	91200	82400	74500	67600	57000
40:1 4 x 10	Me.HP	3.36	17.1	24.6	31.3	44.9
	Th.HP	2.58	11.8	14.4	17.2	20.2
	O.T.	66600	62700	60700	59000	56300
45:1 1.8 x 25	Me.HP	4.29	19.5	24.9	28.9	36.0
	Th.HP	3.04	11.8	15.4	16.3	19.5
	O.T.	85200	74500	65100	58100	48800
50:1 2.5 x 20	Me.HP	3.86	18.9	25.4	30.0	37.6
	Th.HP	2.89	10.5	12.9	15.2	18.7
	O.T.	88500	79900	73000	66900	56400
54:1 1.8 x 30	Me.HP	3.60	16.3	20.9	24.3	30.2
	Th.HP	2.75	9.44	11.1	13.2	15.6
	O.T.	81600	69800	60900	55000	47000
60:1 4 x 15	Me.HP	3.19	16.8	23.5	29	37.9
	Th.HP	2.15	8.6	11	12.9	17.1
	O.T.	91200	88100	83400	78800	68900
62.5:1 2.5 x 25	Me.HP	3.15	15.3	20.5	24.2	30.4
	Th.HP	2.54	9.37	11.8	13.9	16.2
	O.T.	85200	79200	72900	66300	56000
72:1 1.8 x 40	Me.HP	2.74	12.3	15.7	18.3	22.8
	Th.HP	2.30	7.90	9.80	11.9	13.5
	O.T.	73800	65900	58600	52900	44900
75:1 2.5 x 30	Me.HP	2.64	12.8	17.2	20.3	25.5
	Th.HP	1.98	8.20	10.0	11.10	14.4
	O.T.	81600	74600	68300	62100	53300
80:1 4 x 20	Me.HP	2.46	12.8	18.0	22.3	29.1
	Th.HP	1.69	7.20	9.20	10.3	14.6
	O.T.	88500	85500	80900	76500	68000
90:1 1.8 x 50	Me.HP	2.21	9.86	12.6	14.7	18.3
	Th.HP	1.62	6.90	9.00	10.6	12.1
	O.T.	65900	63100	57000	51600	43300
100:1 4 x 25	Me.HP	2.02	10.4	14.5	18.0	23.5
	Th.HP	1.39	6.10	8.30	9.70	13.1
	O.T.	85200	83100	80000	76500	67600
108:1 1.8 x 60	Me.HP	1.87	8.24	10.6	12.3	15.3
	Th.HP	1.31	5.68	7.72	9.08	10.5
	O.T.	64900	60700	54100	49000	41700
120:1 4 x 30	Me.HP	1.69	8.68	12.2	15.1	19.8
	Th.HP	1.23	5.40	7.1	8.30	10.6
	O.T.	81600	78900	75400	71800	63300
125:1 2.5 x 50	Me.HP	1.64	7.72	10.4	12.3	15.4
	Th.HP	1.54	5.45	7.07	8.42	10.8
	O.T.	65900	65500	62100	57800	49700
150:1 2.5 x 60	Me.HP	1.40	6.45	8.66	10.3	12.9
	Th.HP	1.31	4.64	6.35	7.39	9.46
	O.T.	64900	63900	59600	55000	47400
160:1 4 x 40	Me.HP	1.31	6.53	9.15	11.3	14.9
	Th.HP	0.96	4.00	5.40	6.50	9.00
	O.T.	73800	71600	68700	67100	60600
175:1 2.5 x 70	Me.HP	1.2	5.53	7.43	8.8	11.1
	Th.HP	1.15	4.20	6.20	7.20	9.3
	O.T.	63800	63000	58600	54200	46800
200:1 4 x 50	Me.HP	1.06	5.24	7.34	9.10	11.9
	Th.HP	0.79	3.20	4.50	5.60	7.80
	O.T.	65900	66600	65800	64200	58700
240:1 4 x 60	Me.HP	0.92	4.37	6.13	7.6	9.97
	Th.HP	0.72	2.70	3.80	4.70	6.90
	O.T.	64900	65400	64500	61800	55900
280:1 4 x 70	Me.HP	0.79	3.75	5.26	6.52	8.56
	Th.HP	0.69	2.30	3.20	4.20	6.30
	O.T.	63800	64400	63500	60900	55000

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

VM & SVM units supplied with special footbrackets which provides a vertical input and a horizontal output shaft reducer follow in this section.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
4.4375*	80-S60-407	1 X 1/2
3.9375*	80-S60-315	1 X 1/2

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard
Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

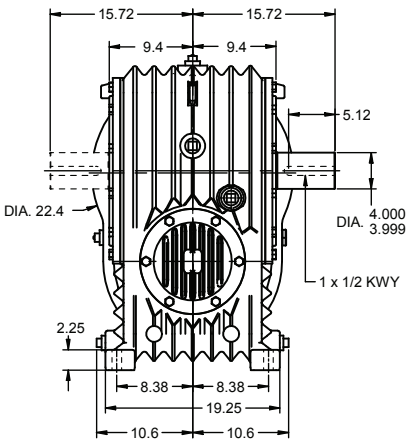
Important: In any applications of Cone Drive products where breakage,damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

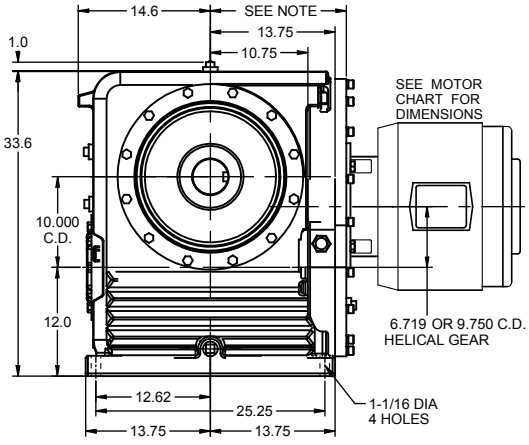
Cone Drive Helical/Worm D-Flange Gearhead - 10.000" C.D.

Size 100 Solid Shaft

Model MU est. wt. 1600 lbs less motor

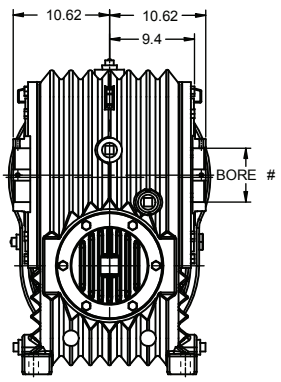
100 - 9.750 C.D. HELICALS
100 L - 6.719 C.D. HELICALS





Hollow Shaft

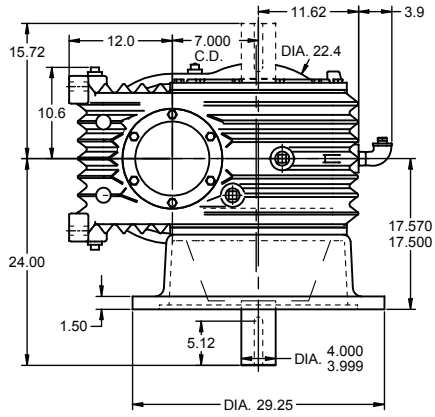
SMU est. wt. 1600 lbs less motor

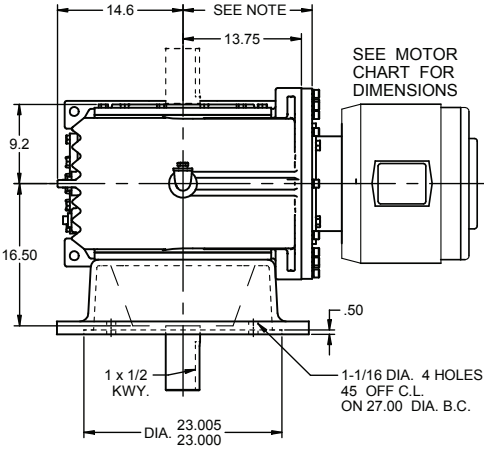


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model MV est. wt. 1675 lbs less motor

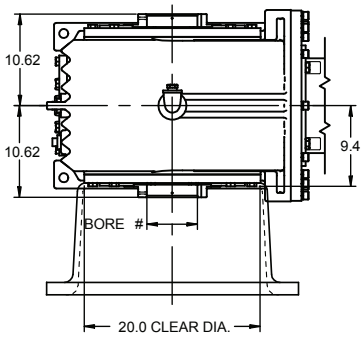
100 - 9.750 C.D. HELICALS
100 L - 6.719 C.D. HELICALS





SOLID OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR BE DOUBLE EXTENDED.

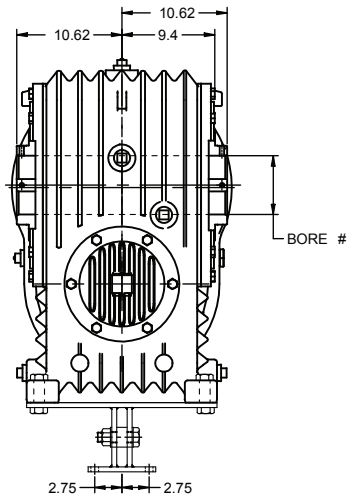
SMV est. wt. 1675 lbs less motor

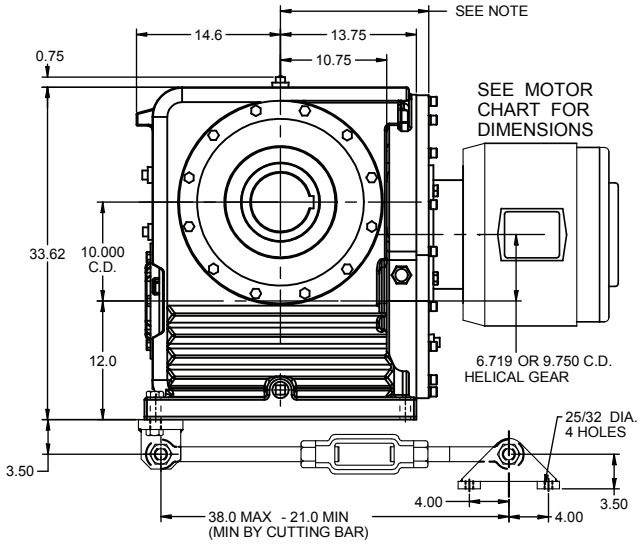


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model SM est. wt. 1650 lbs less motor

100 - 9.750 C.D. HELICALS
100 L - 6.719 C.D. HELICALS





SEE GEAR SHAFT CHART

SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

NOTE: HOLLOW SHAFT IS DOUBLE EXTENDED.

UNIT CAN BE SUPPLIED WITH SOLID SHAFT, CONTACT CONE DRIVE

TORQUE ARM BRACKET CAN BE MOUNTED ON EITHER END OF HOUSING.

Cone Drive Helical/Worm D-Flange Gearhead

Size 100 6.719" or 9.750"C.D. HELICAL PRI./10.000" C.D. WORM GEAR SEC.

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

UNITS WITH 9.750" C.D. HELICALS*						
TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
20:1 4 x 5	**Me.HP**	**9.23**	**48.8**	**70.9**	**82.3**	**94.7**
	Th.HP	8.30	24.1	25.3	27.4	29.7
	O.T.	**90200**	**90000**	**88100**	**77900**	**59500**
30:1 1.5 x 20	**Me.HP**	**7.24**	**38.6**	**56.2**	**68.5**	**82.8**
	Th.HP	6.40	18.5	23.2	24.3	26.9
	O.T.	**104000**	**103000**	**104000**	**96300**	**77300**
45:1 1.8 x 25	**Me.HP**	**6.67**	**34.8**	**43.4**	**50.5**	**62.2**
	Th.HP	3.60	14.1	18.7	19.8	24.0
	O.T.	**136000**	**136000**	**116000**	**104000**	**86100**
50:1 2.5 x 20	**Me.HP**	**5.37**	**28.9**	**42.3**	**52.3**	**65.5**
	Th.HP	3.50	12.6	15.5	18.5	22.9
	O.T.	**126000**	**125000**	**125000**	**119000**	**101000**
54:1 1.8 x 30	**Me.HP**	**6.67**	**29.2**	**36.5**	**42.3**	**52.2**
	Th.HP	3.30	11.4	13.5	16.3	19.3
	O.T.	**156000**	**128000**	**109000**	**98400**	**83000**
62.5:1 2.5 x 25	**Me.HP**	**5.37**	**28.0**	**36.3**	**42.3**	**52.9**
	Th.HP	3.00	11.4	14.6	17.3	20.3
	O.T.	**149000**	**149000**	**132000**	**119000**	**99900**
72:1 1.8 x 40	**Me.HP**	**5.15**	**22.0**	**27.5**	**31.9**	**39.3**
	Th.HP	2.70	9.20	11.5	14.1	16.0
	O.T.	**143000**	**121000**	**105000**	**94700**	**79400**
75:1 2.5 x 30	**Me.HP**	**4.95**	**23.4**	**30.5**	**35.5**	**44.4**
	Th.HP	2.30	9.70	11.7	13.1	17.3
	O.T.	**158000**	**140000**	**124000**	**111000**	**95200**
90:1 1.8 x 50	**Me.HP**	**4.15**	**17.6**	**22.0**	**25.6**	**31.6**
	Th.HP	1.90	8.00	10.6	12.5	14.2
	O.T.	**128000**	**116000**	**102000**	**92500**	**76700**
100:1 4 x 25	**Me.HP**	**3.36**	**17.1**	**24.6**	**31.3**	**41.2**
	Th.HP	1.60	7.10	9.80	11.6	15.7
	O.T.	**146000**	**141000**	**139000**	**137000**	**121000**
108:1 1.8 x 60	**Me.HP**	**3.51**	**14.7**	**18.4**	**21.4**	**26.4**
	Th.HP	1.50	6.70	9.20	10.9	12.6
	O.T.	**126000**	**112000**	**97200**	**87900**	**74000**
120:1 4 x 30	**Me.HP**	**3.17**	**16.2**	**22.4**	**27.1**	**34.5**
	Th.HP	1.40	6.30	8.30	9.70	12.5
	O.T.	**158000**	**152000**	**142000**	**133000**	**114000**
125:1 2.5 x 50	**Me.HP**	**3.07**	**14.2**	**18.4**	**21.5**	**26.9**
	Th.HP	1.80	6.50	8.40	10.1	13.1
	O.T.	**128000**	**124000**	**113000**	**104000**	**89100**
150:1 2.5 x 60	**Me.HP**	**2.61**	**11.8**	**15.4**	**17.9**	**22.5**
	Th.HP	1.50	5.50	7.50	8.80	11.4
	O.T.	**126000**	**121000**	**109000**	**98900**	**85100**
160:1 4 x 40	**Me.HP**	**2.46**	**12.2**	**16.8**	**20.4**	**26.0**
	Th.HP	1.10	4.70	5.90	7.60	10.5
	O.T.	**143000**	**138000**	**130000**	**124000**	**109000**
175:1 2.5 x 70	**Me.HP**	**2.25**	**10.2**	**13.2**	**15.4**	**19.3**
	Th.HP	1.60	4.80	7.10	8.40	10.9
	O.T.	**124000**	**119000**	**107000**	**97500**	**84000**
200:1 4 x 50	**Me.HP**	**1.99**	**9.79**	**13.5**	**16.4**	**20.9**
	Th.HP	0.90	3.70	5.20	6.50	9.10
	O.T.	**128000**	**128000**	**125000**	**119000**	**106000**
240:1 4 x 60	**Me.HP**	**1.71**	**8.17**	**11.3**	**13.7**	**17.4**
	Th.HP	0.80	3.10	4.40	5.40	8.00
	O.T.	**126000**	**126000**	**122000**	**115000**	**101000**
280:1 4 x 70	**Me.HP**	**1.48**	**7.01**	**9.67**	**11.8**	**15.0**
	Th.HP	0.80	2.60	3.70	4.80	7.20
	O.T.	**124000**	**125000**	**121000**	**113000**	**99200**

UNITS WITH 9.750" C.D. HELICALS*						
TOTAL RATIO PRIMARY X SECONDARY		INPUT RPM				
		100	580	870	1150	1750
5:1 1 x 5	**Me.HP**	**34.9**	**151**	**182**	**199**	**231**
	Th.HP	16.3	44.5	53.2	54.3	55.7
	O.T.	**102000**	**78200**	**63000**	**52200**	**40200**
7.5:1 1.5 x 5	**Me.HP**	**28.4**	**124**	**153**	**174**	**201**
	Th.HP	11.0	39.8	44.6	47.1	55.7
	O.T.	**120000**	**93500**	**77400**	**66900**	**51100**
9:1 1.8 x 5	**Me.HP**	**25.4**	**112**	**139**	**160**	**189**
	Th.HP	7.10	35.2	41.3	45.2	55.7
	O.T.	**128000**	**102000**	**84600**	**73800**	**57500**
10:1 1 x 10	**Me.HP**	**31.8**	**107**	**131**	**148**	**170**
	Th.HP	12.2	31.6	39.0	43.7	44.4
	O.T.	**174000**	**106000**	**88000**	**75500**	**57800**
12.5:1 2.5 x 5	**Me.HP**	**20.6**	**94.2**	**118**	**137**	**169**
	Th.HP	6.50	28.2	36.7	40.4	46.0
	O.T.	**142000**	**117000**	**98100**	**86500**	**70500**
15:1 1.5 x 10	**Me.HP**	**21.9**	**87.0**	**108**	**125**	**149**
	Th.HP	8.50	26.4	31.1	38.0	43.8
	O.T.	**174000**	**126000**	**105000**	**92600**	**73700**
18:1 1.8 x 10	**Me.HP**	**18.4**	**78.6**	**98.0**	**114**	**139**
	Th.HP	5.50	23.4	28.6	33.1	42.9
	O.T.	**174000**	**136000**	**114000**	**101000**	**82200**
22.5:1 1.5 x 15	**Me.HP**	**15.4**	**62.0**	**77.1**	**89.0**	**107**
	Th.HP	7.40	21.7	26.6	29.6	35.7
	O.T.	**175000**	**129000**	**110000**	**97300**	**78200**
25:1 2.5 x 10	**Me.HP**	**13.6**	**64.2**	**82.8**	**96.2**	**120**
	Th.HP	4.70	19.4	23.8	27.9	36.7
	O.T.	**174000**	**151000**	**131000**	**117000**	**96800**
27:1 1.8 x 15	**Me.HP**	**12.9**	**56.0**	**69.9**	**81.2**	**99.8**
	Th.HP	5.00	18.4	23.0	27.7	35.0
	O.T.	**175000**	**139000**	**118000**	**105000**	**87000**
36:1 1.8 x 20	**Me.HP**	**9.93**	**43.0**	**53.7**	**62.4**	**76.8**
	Th.HP	4.10	15.0	19.0	25.8	26.0
	O.T.	**170000**	**136000**	**117000**	**105000**	**85700**
37.5:1 2.5 x 15	**Me.HP**	**9.50**	**45.5**	**58.9**	**68.6**	**85.8**
	Th.HP	4.20	15.4	19.4	22.3	28.3
	O.T.	**175000**	**154000**	**135000**	**121000**	**101000**
40:1 4 x 10	**Me.HP**	**8.56**	**44.4**	**60.9**	**73.6**	**92.9**
	Th.HP	3.10	12.9	16.9	20.2	24.3
	O.T.	**174000**	**166000**	**154000**	**142000**	**119000**
60:1 4 x 15	**Me.HP**	**59.9**	**31.3**	**43.1**	**52.2**	**65.3**
	Th.HP	2.60	10.4	13.3	15.8	21.1
	O.T.	**175000**	**168000**	**157000**	**145000**	**123000**
80:1 4 x 20	**Me.HP**	**4.62**	**24.0**	**33.0**	**40.1**	**50.9**
	Th.HP	2.00	8.50	11.0	12.9	17.7
	O.T.	**170000**	**164000**	**152000**	**141000**	**122000**

Me.HP = Mechanical horsepower Th.HP = Thermal horsepower

O.T. = Output torque in Lb. in.

STANDARD HOLLOW GEAR SHAFTS		
BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
5.9375	100-S61-515	1-1/4 X 7/16

Special hollow gear shaft bore sizes are available at additional cost.
*AGMA Standard
Bore Tolerance: +.004, -.000
2 set screws at long end of shaft.

CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Notes:

For motor data refer to pages 71 and 72.

All MV units having shaft extended thru base side will be supplied with a steeple bearing mounting on base side, unless otherwise specified.

Steeple bearing arrangements follow in this section.

All units can be supplied with fan cooling.

When specified each unit can be supplied with a worm shaft extension located opposite the input end.

When specified, units can be supplied with water cooling coils in oil sump.

Unless otherwise specified, all reducers are supplied with a right hand helix worm gear set.

Reducers are designed for shaft rotation in either direction.

For cap and carrier dimensions not shown see mounting section.

For output shaft chain pull capacity, see single reduction rating chart for size unit required. Determine worm speed by dividing input speed by helical gear ratio.

Refer to page 26 for lubrication information, efficiency, and service factors.

Reducers may be used in floor, ceiling, or wall mounted positions, however, they must be ordered for the position required so that suitable oil level, grease fittings, filler and drains are provided.

Hand of assembly and mounting position diagrams follow in this section.

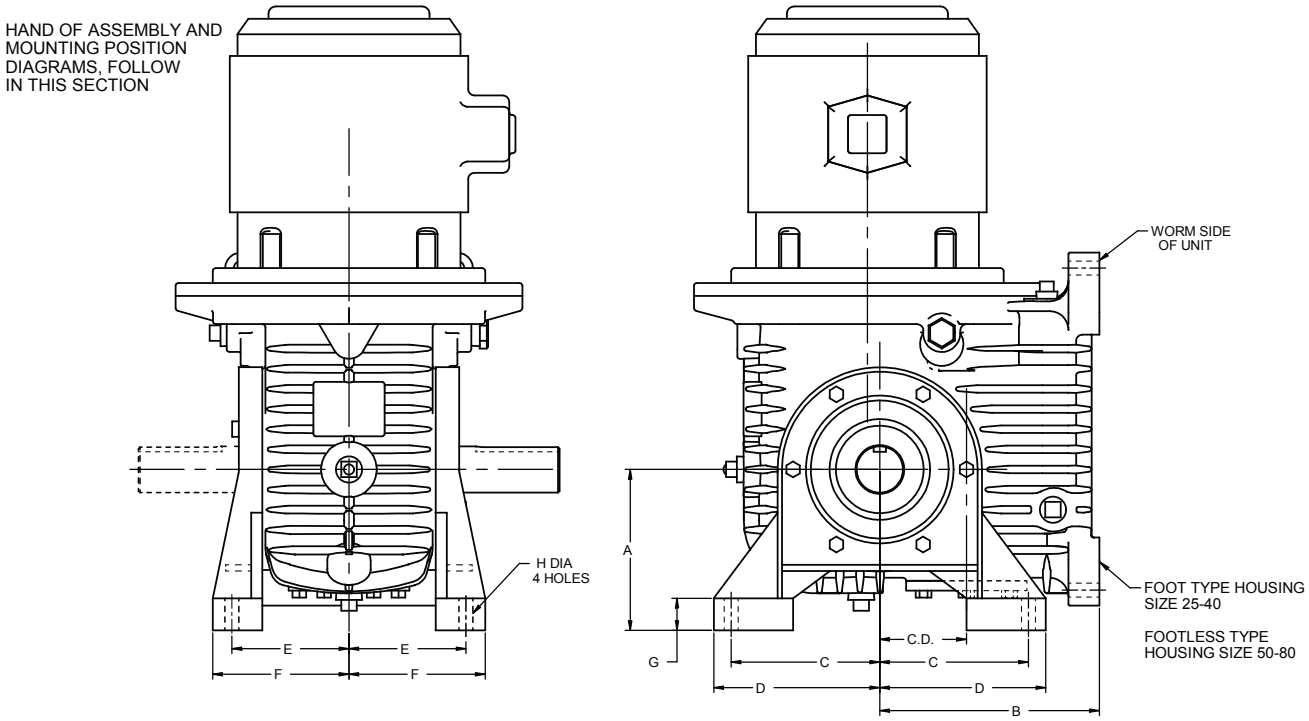
* Available at additional cost.

Important: In any applications of Cone Drive products where breakage,damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must be incorporated after the drive train.

Cone Drive Helical/Worm D Flange Gearhead

Sizes 25 thru 80

Models VR & SVM Input Vertical-Horizontal Output Shaft
Special Foot Brackets

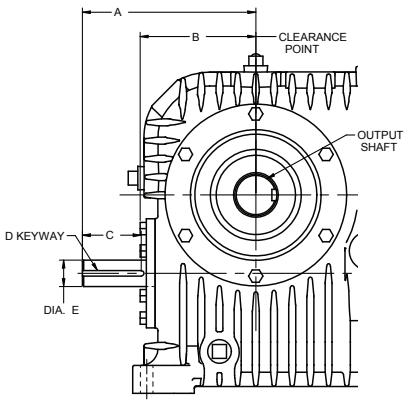


MODEL AVAILABLE IN ALL SOLID AND HOLLOW OUTPUT SHAFT CONFIGURATIONS.
FOR ALL OTHER DIMENSIONS REFER TO CORRESPONDING SIZE MODEL SM OR MU.

Reducer Size	Center Distance	A	B	C	D	E	F	G	H
25	2.500	4.50	6.25	4.25	4.8	4.75	5.4	0.9	15/32
30	3.000	5.50	7.75	5.00	5.7	5.25	5.9	1.2	9/16
35	3.500	6.50	8.87	6.00	6.7	6.50	7.2	1.3	9/16
40	4.000	7.50	10.00	6.75	7.6	7.75	8.6	1.5	11/16
50	5.000	8.50	11.8	7.50	8.4	8.25	9.2	1.8	13/16
60	6.000	8.50	13.4	8.25	9.1	9.00	9.9	1.5	13/16
70	7.000	13.75	16.4	10.00	11.3	9.75	10.8	1.5	15/16
80	8.000	15.50	17.4	11.50	12.8	10.30	11.3	1.8	15/16

Worm Extension Opposite Reducer Input

Reducer Size	Center Distance	A	B	C	D	E
25	2.500	5.25	3.8	1.00	3/16 x 3/32	0.750
30	3.000	6.69	4.6	1.75	1/4 x 1/8	1.000
35	3.500	7.75	5.2	2.62	1/4 x 1/8	1.1875
40	4.000	9.31	6.1	2.75	3/8 x 3/16	1.500
50	5.000	10.50	7.2	2.75	3/8 x 3/16	1.500
60	6.000	11.75	7.8	3.50	3/8 x 3/16	1.750
70	7.000	14.50	9.4	4.50	1/2 x 1/4	1.875
80	8.000	15.50	10.8	4.75	1/2 x 1/4	2.000
100	10.000	19.25	14.5	4.20	5/8 x 5/16	2.375



FOR SHAFT SPEED DIVIDE INPUT SPEED BY HELICAL GEAR RATIO.

Fan Cooling for Cone Drive Helical/Worm D Flange Gearhead

MODEL NUMBERS FMU, FMV, FSM, FSMU, FSMV

Cone Drive fan-cooled helical worm double reduction gearmotors are available in all models size 40 through 100. (see note below.) They are identical with standard models except for the use of an extended worm shaft, fan and air-flow control cover.

The control cover directs air over the lower portion of the reducer housing and the fins on the housing guide the air for maximum cooling efficiency.

Thermal horsepower ratings are naturally increased with fan cooling

All size 40 fan-cooled models have thermal horsepower ratings equal to mechanical horsepower ratings, regardless of ratio. In the rating table on this page are shown thermal horsepower ratings for certain ratios of size 50 through size 80 models. Any ratio and speed not listed is limited to the maximum thermal ratings found on ratings page of this section.

CLEARANCE DIMENSION FROM CENTERLINE OF UNIT OVER FAN COVER						
SIZE	40	50	60	70	80	100
DIM.	8.0	9.5	10.2	12.9	14.3	16.5

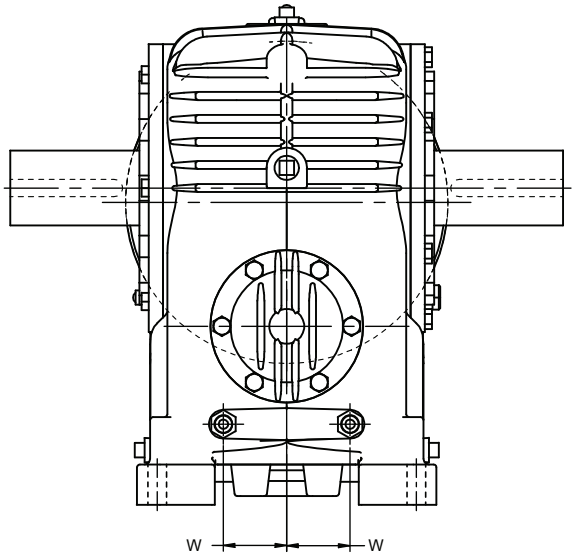
Thermal Ratings
of Fan Cooled Gearmotors

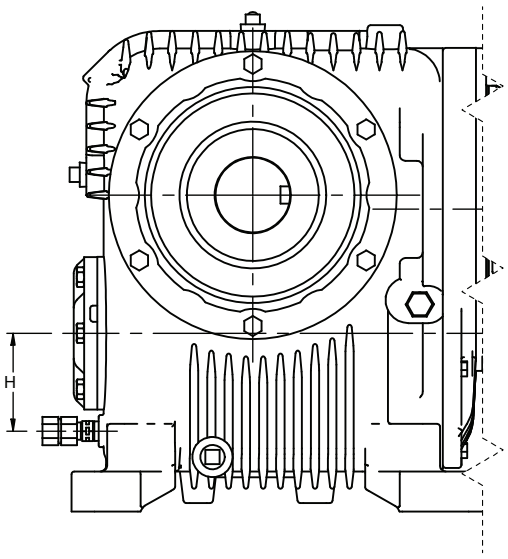
UNIT SIZE	TOTAL RATIO	INPUT RPM		
		870	1150	1750
40	ALL RATINGS ARE EQUAL TO MECHANICAL RATING OF SIZE 40 HELICAL/WORM D-FLANGE GEARHEAD IN THIS SECTION			
50	5:1	29.0	36.3	49.6
	7.5:1	23.3	25.7	37.0
	9:1	21.6	24.7	33.3
	10:1	23.8	28.0	34.4
	12.5:1		20.2	24.6
	15:1	17.1	21.4	28.3
60	5:1	29.0	37.5	53.0
	7:5:1	24.6	27.4	38.4
	9:1	22.1	26.3	35.8
	10:1	25.4	32.3	43.8
	12.5:1		21.6	26.8
	15:1	18.1	22.8	31.3
	18:1	16.9	20.0	28.5
70	5:1	47.6	56.0	76.4
	7.5:1	35.9	39.5	55.4
	9:1	33.2	38.0	51.6
	10:1	36.5	46.7	63.2
	12.5:1		31.1	38.6
	15:1	26.3	32.9	45.1
	18:1	24.3	28.9	41.2
	22.5:1	22.9	26.4	37.7
	25:1		22.6	31.7
	30:1	20.2	22.1	29.4
	36:1	16.8	22.1	26.5
	45:1	16.4	18.2	24.6
	50:1		15.6	20.9
	54:1	11.9	14.8	19.6
	72:1	10.8	12.5	15.6
80	5:1	51.0	60.0	82.0
	7.5:1	38.5	42.4	59.5
	9:1	35.7	40.7	55.4
	10:1	39.1	50.0	67.8
	12.5:1		33.4	41.4
	15:1	28.1	35.3	48.4
	18:1	26.0	31.1	44.1
	20:1	26.8	33.3	47.8
	22.5:1	24.5	28.3	40.5
	25:1		24.3	34.0
	30:1	21.7	23.8	31.5
	36:1	18.1	25.2	29.7
	37.5:1		19.3	26.4
	45:1	17.7	19.6	26.3
	50:1		16.7	22.4
	54:1	12.8	15.8	21.1
	72:1	11.3	14.3	18.2
100	CONTACT CONE DRIVE ENGINEERING FOR RATINGS			

Water Cooling Inlet and Outlet Locations for Cone Drive Helical/Worm D Flange Gearhead

Model MU Shown SMU, MV, SMV, SM

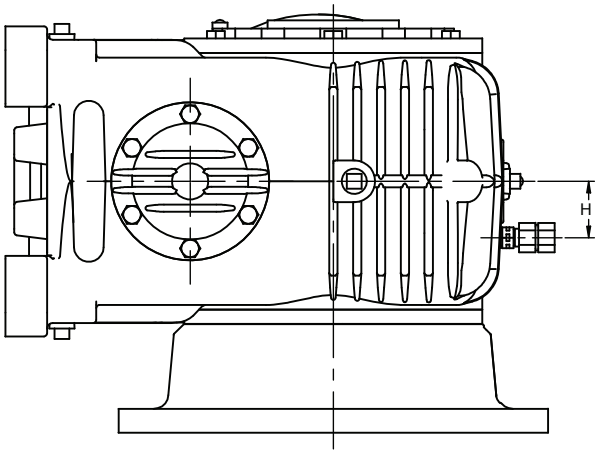
Floor Mounted Position Shown

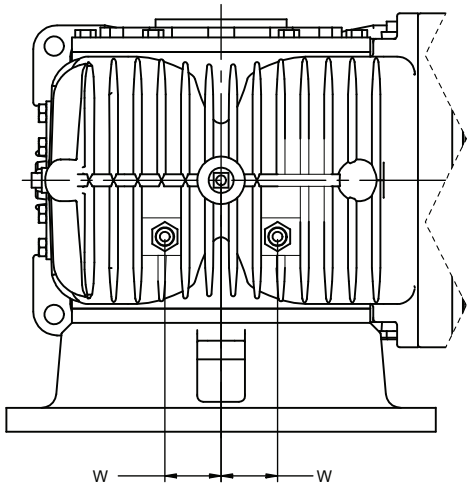




MV and SMV Shown Sizes 70-100 only

Floor Mounted Position Shown





MODELS	SIZE	W	H	FEMALE THREAD
MU MV SM	40	2.43	3.50	3/8 - 18 NPT
MU MV SM	50	2.25	3.75	3/8 - 18 NPT
MU MV SM	60	2.06	4.44	3/8 - 18 NPT
MU SM	70	3.25	5.88	3/8 - 18 NPT
MU SM	80	3.25	5.88	3/8 - 18 NPT
MU SM	100	4.25	8.00	3/8 - 18 NPT

MODELS	SIZE	W	H	FEMALE THREAD
MV	70	3.00	3.75	3/8 - 18 NPT
MV	80	3.50	3.75	3/8 - 18 NPT
MV	100	5.00	4.25	3/8 - 18 NPT

IMPORTANT: WHEN ASSEMBLING EXTERNAL PIPING TO REDUCER INLET AND OUTLET FITTINGS A BACKUP WRENCH MUST BE USED ON REDUCER FITTINGS TO PREVENT TURNING TO AVOID DAMAGE TO COOLING COIL INSIDE UNIT.

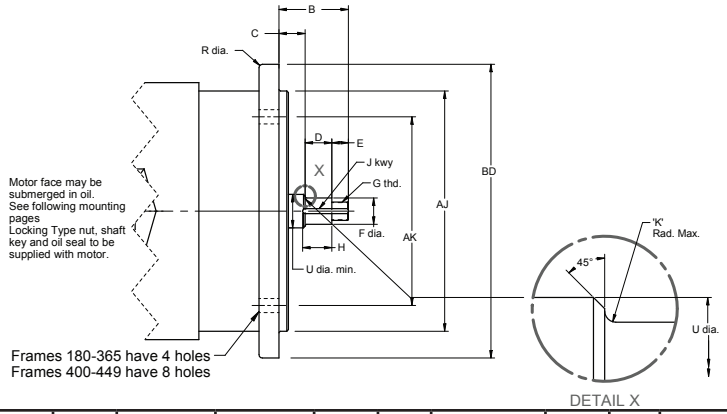
INLET AND OUTLET LOCATIONS MAY VARY DEPENDING ON MOUNTING POSITION OF UNIT. COOLING COILS SUPPLIED MAY BE EITHER PLAIN OR FINNED O.D. TUBING.

Cone Drive Helical/Worm D Flange Gearhead

Dimensions for Mounting NEMA 'D' Flange Motor

Standard Helical Stocked Ratios are: 1:1, 1.5:1, 1.8:1, 2.5:1, and 4:1. Other ratios are also available. For information Contact Cone Drive.

2.5:1 and 4:1 ratios are not available with all motor shaft sizes. See chart below.



FRAME	AK	AJ	BD	B	C	D	E	F +.0000 -.0005	G	H	K	J	U	R	RATIOS	HELICAL PINION DET.
REDUCER SIZES: 25 & 30, HELICAL C.D. 3.000																
180DZ-210DZ 140TDZ-184TDZ*	9.00	10.00	11.00	2.375	.968	.968	.44	.6697	1/2 - 20	1.00	.06	3/16 x 3/32	.88	.53	all ratios	30-700
210TDZ-215TDZ*	9.00	10.00	11.00	2.688	.875	1.062	.75	.9847	7/8 - 14	1.12	.06	3/16 x 3/32	1.38	.53	all ratios but 2.5:1,4:1	30-710
210TDZ-215TDZ*	9.00	10.00	11.00	2.375	.968	.968	.44	.6697	1/2 - 20	1.00	.06	3/16 x 3/32	.88	.53	for ratios 2.5:1,4:1	30-700
REDUCER SIZES: 35 & 40, HELICAL C.D 4.000																
180DZ-210DZ 140TDZ-184TDZ	9.00	10.00	11.00	2.375	.968	.968	.44	.6697	1/2 - 20	1.00	.06	3/16 x 3/32	.88	.53	all ratios	40-700
210TDZ-215TDZ	9.00	10.00	11.00	2.688	.875	1.062	.75	.9847	7/8 - 14	1.12	.06	3/16 x 3/32	1.38	.53	all ratios	40-710
254UDZ-286UDZ 250TDZ-256TDZ*	11.00	12.50	14.00	3.094	1.281	1.218	.59	.9847	7/8 - 14	1.31	.06	3/16 x 3/32	1.50	.81	all ratios	40-710
REDUCER SIZES: 50 & 60, HELICAL C.D 5.375																
180DZ-210DZ 140TDZ-184TDZ	9.00	10.00	11.00	2.375	.968	.968	.44	.6697	1/2-20	1.00	.06	3/16 x 3/32	.88	.53	all ratios	53-700
210TDZ-215TDZ	9.00	10.00	11.00	2.688	.875	1.062	.75	.9847	7/8-14	1.12	.06	3/16 x 3/32	1.38	.53	all ratios	53-710
254UDZ-286UDZ 250TDZ-256TDZ	11.00	12.50	14.00	3.094	1.281	1.218	.59	.9847	7/8-14	1.31	.06	3/16 x 3/32	1.50	.81	all ratios	53-710
280TDZ-286TDZ	11.00	12.50	14.00	3.875	.968	1.593	1.31	1.5013	1 1/4-12	1.68	.12	3/8 x 3/16	1.88	.81	all ratios but 4:1	53-720
320UDZ-360UDZ 320TDZ-326TDZ	14.00	16.00	18.00	4.750	1.875	1.562	1.31	1.5013	1 1/4 - 12	1.75	.12	3/8 x 3/16	1.88	.81	all ratios but 4:1	53-720
280TDZ-286TDZ	11.00	12.50	14.00	3.094	1.281	1.218	.59	.9847	7/8-14	1.31	.06	3/16 x 3/32	1.50	.81	for 4:1 ratios	53-710
320UDZ-360UDZ 320TDZ-326TDZ	14.00	16.00	18.00	3.906	2.093	1.218	.59	.9847	7/8-14	1.31	.06	3/16 x 3/32	1.50	.81	for 4:1 ratio	53-710
REDUCER SIZES: 70 & 80, 100L HELICAL C.D 6.719																
210TDZ-215TDZ	9.00	10.00	11.00	2.688	.875	1.062	.75	.9847	7/8-14	1.12	.06	3/16 x 3/32	1.38	.53	all ratios	67-715
254UDZ-286UDZ 250TDZ-256TDZ	11.00	12.50	14.00	3.094	1.281	1.218	.59	.9847	7/8-14	1.31	.06	3/16 x 3/32	1.50	.81	all ratios	67-715
280TDZ-286TDZ	11.00	12.50	14.00	3.875	.968	1.593	1.31	1.5013	1 1/4-12	1.68	.12	3/8 x 3/16	1.88	.81	all ratios	67-725
320UDZ-360UDZ 320TDZ-326TDZ	14.00	16.00	18.00	4.750	1.875	1.562	1.31	1.5013	1 1/4 -12	1.75	.12	3/8 x 3/16	1.88	.81	all ratios	67-725
360TDZ-365TDZ	14.00	16.00	18.00	5.000	1.875	1.687	1.44	1.875	1 1/2-12	1.88	.12	1/2 x 1/4	2.38	.81	all ratios but 4:1	67-730
400UDZ-445UDZ 400TDZ-445TDZ	18.00	20.00	22.00	5.000	1.812	1.687	1.50	1.875	1 1/2 -12	1.88	.12	1/2 x 1/4	2.38	.81	all ratios but 4:1	67-730
360TDZ-365TDZ	14.00	16.00	18.00	4.750	1.875	1.562	1.31	1.5013	1 1/4-12	1.75	.12	3/8 x 3/16	1.88	.81	for 4:1	67-725
400UDZ-445UDZ 400TDZ-445TDZ	18.00	20.00	22.00	4.688	1.812	1.562	1.31	1.5013	1 1/4 -12	1.75	.12	3/8 x 3/16	1.88	.81	for 4:1	67-725
REDUCER SIZE: 100, HELICAL C.D. 9.750																
324UDZ-365UDZ 324TDZ-365TDZ	14.00	16.00	18.00	4.75	1.250	2.687	.75	1.875	1.767-18 1.731P.D.	2.87	.06	1/2 x 1/4	2.38	.81	all ratios	97-735
400UDZ-445UDZ 400TDZ-449TDZ	18.00	20.00	22.00	5.375	1.875	2.687	.81	2.375	2.360-18 2.324P.D.	2.87	.06	5/8 x 5/16	2.81	.81	all ratios but 4:1	97-740
400UDZ-445UDZ 400TDZ-449TDZ	18.00	20.00	22.00	5.312	1.875	2.687	.75	1.875	1.767-18 1.731P.D.	2.87	.06	1/2 x 1/4	2.38	.81	all ratios	97-735

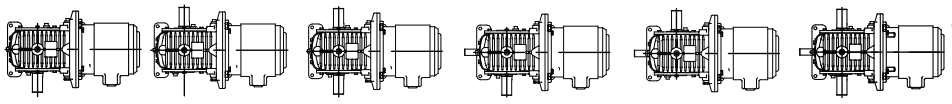
*Reducers marked with asterisk do not require motor adapters.

Assembly & Mounting Position Numbers for Cone Drive Helical/Worm D Flange Gearhead

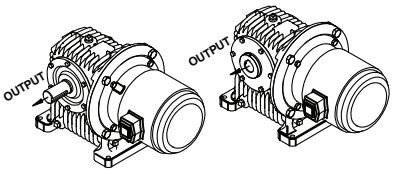
Models MU, SMU, MV, SMV, SM, Solid & Hollow Shaft

ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE

Top View, Floor Mounted

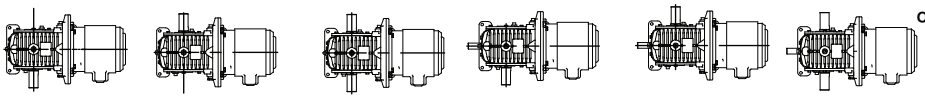


1.....2.....3.....4.....5.....6

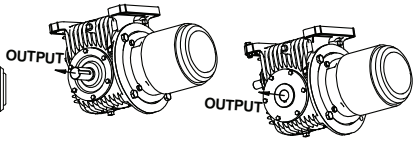


1 Shown

Ceiling Mounted*

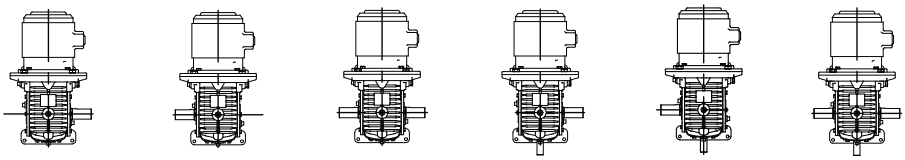


C1.....C2.....C3.....C4.....C5.....C6

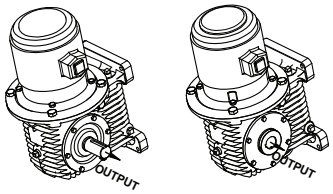


C2 Shown

Wall Mounted, Motor Up

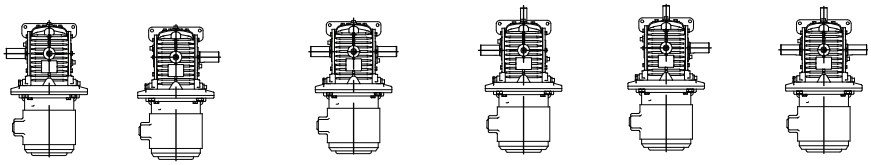


W1.....W2.....W3.....W4.....W5.....W6

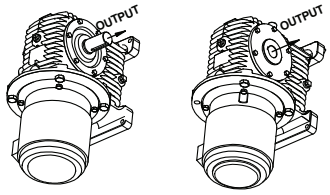


W1 Shown

Wall Mounted, Motor Down*

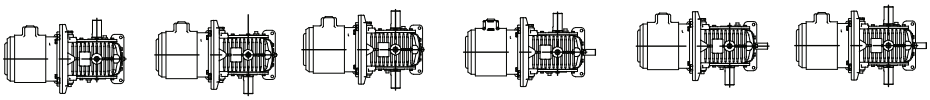


X1.....X2.....X3.....X4.....X5.....X6

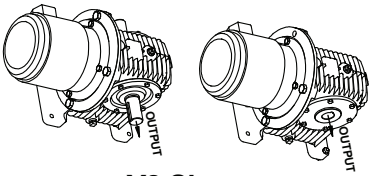


X2 Shown

Wall Mounted, Motor To Left*

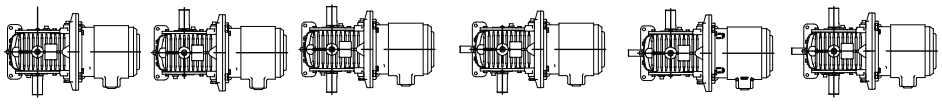


Y1.....Y2.....Y3.....Y4.....Y5.....Y6

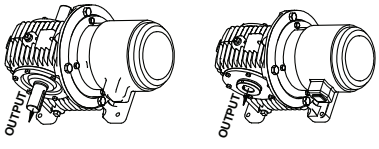


Y2 Shown

Wall Mounted, Motor To Right



Z1.....Z2.....Z3.....Z4.....Z5.....Z6



Z1 Shown

*Motor face may be submerged in oil. Contact motor supplier regarding shaft seal requirements.

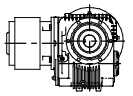
Assembly & Mounting Position Numbers for Cone Drive Helical/Worm D Flange Gearhead

Models MV, SMV - Solid & Hollow Shaft

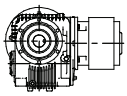
ALL DIAGRAMS SHOW REDUCER WITH BASE ON FAR SIDE

RV	SRV	
A	A	Gearshaft Extended Opposite Base
BR	B	Gearshaft Extended Through Base
SD	C	Gearshaft Double Extended

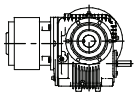
Floor Mounted - Top View*



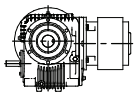
MV	SMV
1A	1A
1BR	1B
1SD	1C



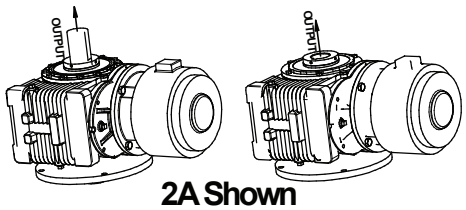
MV	SMV
2A	2A
2BR	2B
2SD	2C



MV	SMV
3A	3A
3BR	3B
3SD	3C

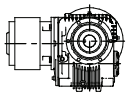


MV	SMV
4A	4A
4BR	4B
4SD	4C

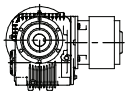


2A Shown

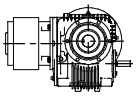
Ceiling Mounted*



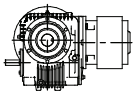
MV	SMV
C1A	C1A
C1BR	C1B
C1SD	C1C



MV	SMV
C2A	C2A
C2BR	C2B
C2SD	C2C



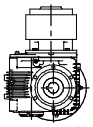
MV	SMV
C3A	C3A
C3BR	C3B
C3SD	C3C



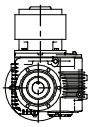
MV	SMV
C4A	C4A
C4BR	C4B
C4SD	C4C

C1A Shown

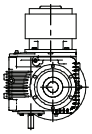
Wall Mounted - Motor Up



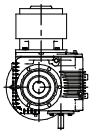
MV	SMV
W1A	W1A
W1BR	W1B
W1SD	W1C



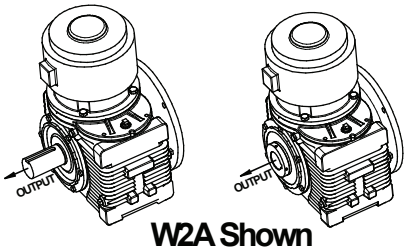
MV	SMV
W2A	W2A
W2BR	W2B
W2SD	W2C



MV	SMV
W3A	W3A
W3BR	W3B
W3SD	W3C

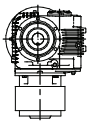


MV	SMV
W4A	W4A
W4BR	W4B
W4SD	W4C

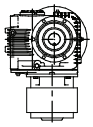


W2A Shown

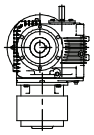
Wall Mounted - MotorDown*



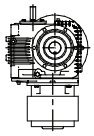
MV	SMV
X1A	X1A
X1BR	X1B
X1SD	X1C



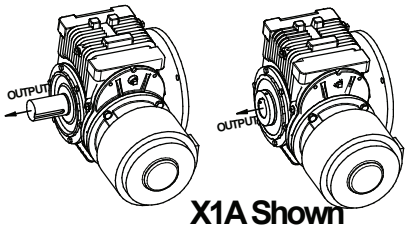
MV	SMV
X2A	X2A
X2BR	X2B
X2SD	X2C



MV	SMV
X3A	X3A
X3BR	X3B
X3SD	X3C

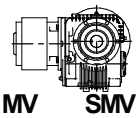


MV	SMV
X4A	X4A
X4BR	X4B
X4SD	X4C

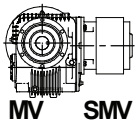


X1A Shown

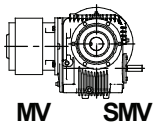
Wall Mounted - Worm Under



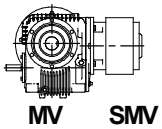
MV	SMV
Y1A	Y1A
Y1BR	Y1B
Y1SD	Y1C



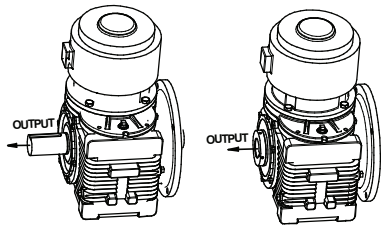
MV	SMV
Y2A	Y2A
Y2BR	Y2B
Y2SD	Y2C



MV	SMV
Y3A	Y3A
Y3BR	Y3B
Y3SD	Y3C

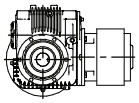


MV	SMV
Y4A	Y4A
Y4BR	Y4B
Y4SD	Y4C

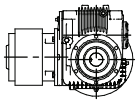


Y2A Shown

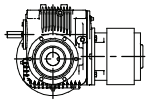
Wall Mounted - Worm Over



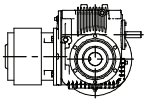
MV	SMV
Z1A	Z1A
Z1BR	Z1B
Z1SD	Z1C



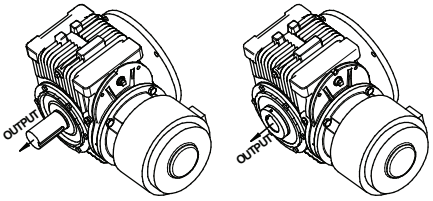
MV	SMV
Z2A	Z2A
Z2BR	Z2B
Z2SD	Z2C



MV	SMV
Z3A	Z3A
Z3BR	Z3B
Z3SD	Z3C



MV	SMV
Z4A	Z4A
Z4BR	Z4B
Z4SD	Z4C



Z1A Shown

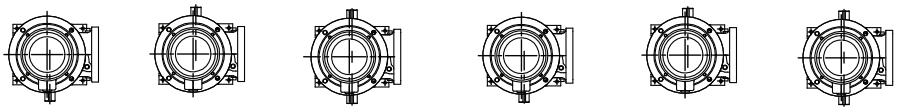
*Motor face may be submerged in oil. Contact motor supplier regarding shaft seal requirements.

Assembly & Mounting Position Numbers for Cone Drive Helical/Worm D Flange Gearhead

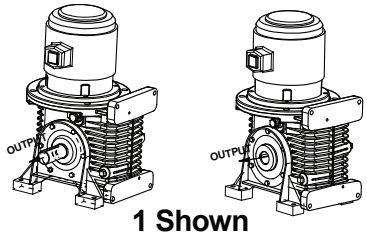
Models VM, SVM - Solid & Hollow Shaft

ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE. DIAGRAMS 4-6 HAVE SHAFT EXTENSION OPPOSITE MOTOR END.

Top View, Floor Mounted

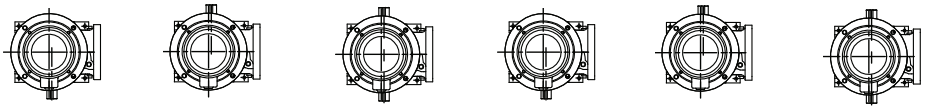


1.....2.....3.....4.....5.....6

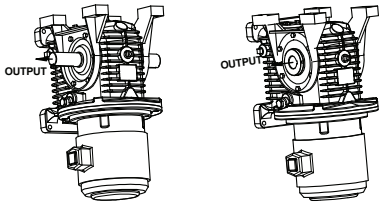


1 Shown

Ceiling Mounted*

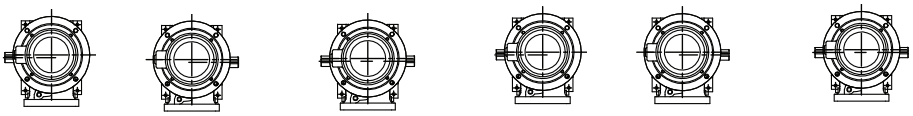


C1.....C2.....C3.....C4.....C5.....C6

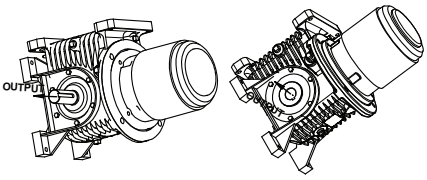


C2 Shown

Wall Mounted, Worm Under Horizontal Gearshaft

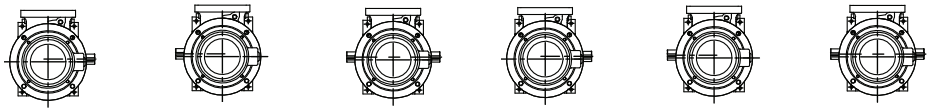


W1.....W2.....W3.....W4.....W5.....W6

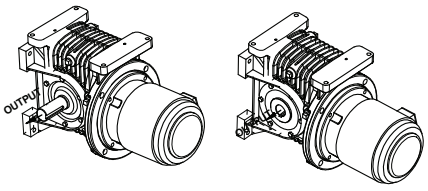


W1 Shown

Wall Mounted, Worm Over Horizontal Gearshaft*

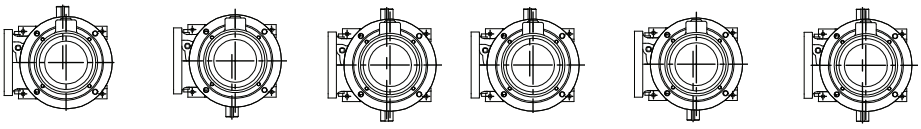


X1.....X2.....X3.....X4.....X5.....X6

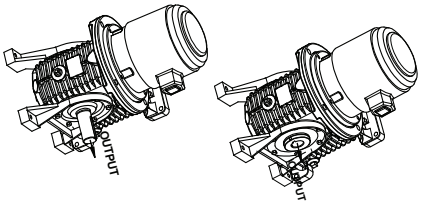


X2 Shown

Wall Mounted, Worm Left Vertical Gearshaft*

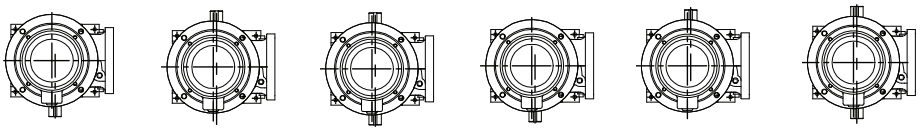


Y1.....Y2.....Y3.....Y4.....Y5.....Y6

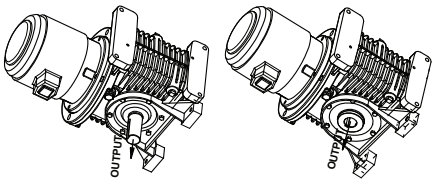


Y2 Shown

Wall Mounted, Worm Right Vertical Gearshaft*



Z1.....Z2.....Z3.....Z4.....Z5.....Z6



Z1 Shown

*Motor face may be submerged in oil. Contact motor supplier regarding shaft seal requirements.