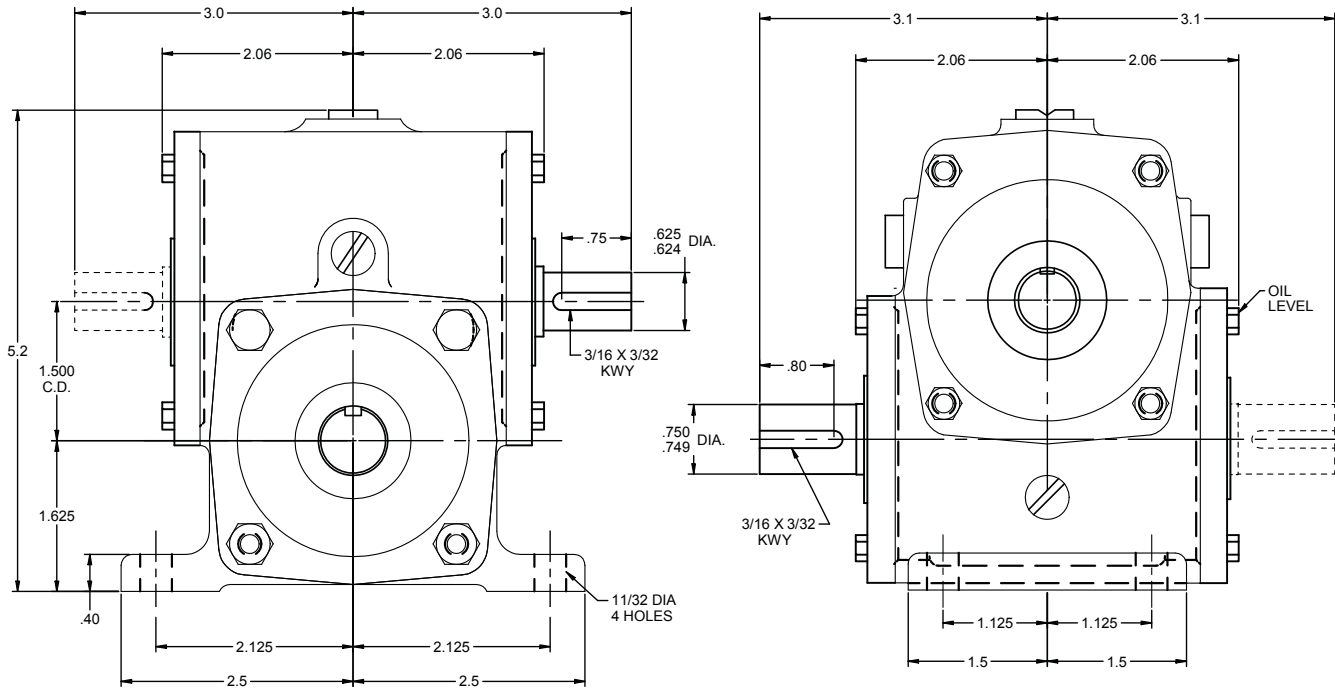
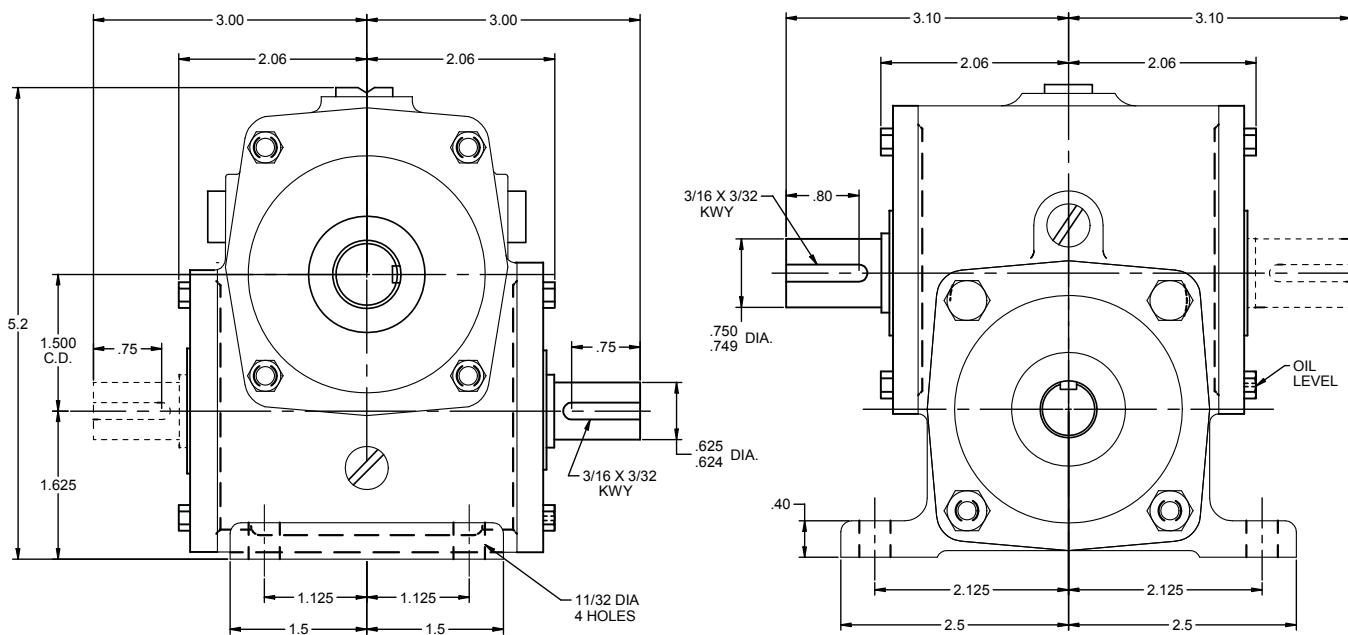


Cone Drive Single Reduction Units - 1.500" C.D. Solid Shaft Size 15

Model HO 15 Worm Over Gear net wt. 11 lbs



Model HU 15 Worm Under Gear net wt. 11 lbs



INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 1.500" C.D. Solid Shaft

Size 15 - Motorizing

Ratio to 1		Worm RPM							
		100	200	300	580	720	870	1150	1750
5	Me. HP	0.24	0.45	0.64	1.13	1.35	1.58	1.94	2.51
	Efficiency	89	90	91	91	91	92	92	92
	O.T.	670	635	610	560	540	530	490	420
10	Me. HP	0.16	0.31	0.44	0.78	0.94	1.10	1.37	1.81
	Efficiency	83	85	86	87	87	89	90	90
	O.T.	860	825	800	745	720	715	675	590
15	Me. HP	0.13	0.25	0.36	0.63	0.76	0.89	1.11	1.48
	Efficiency	79	81	82	85	85	87	88	88
	O.T.	990	955	925	880	855	845	805	705
20	Me. HP	0.10	0.19	0.27	0.49	0.58	0.68	0.85	1.14
	Efficiency	75	77	78	83	83	83	84	85
	O.T.	955	930	895	880	850	825	785	700
30	Me. HP	0.07	0.13	0.18	0.33	0.40	0.46	0.58	0.77
	Efficiency	68	70	72	75	75	79	80	80
	O.T.	880	855	835	805	780	795	760	665
40	Me. HP	0.05	0.10	0.14	0.25	0.30	0.35	0.43	0.58
	Efficiency	61	63	67	72	75	75	76	76
	O.T.	795	770	785	775	785	760	725	635
50	Me. HP	0.04	0.08	0.11	0.20	0.24	0.28	0.35	0.46
	Efficiency	54	60	64	70	70	72	73	73
	O.T.	705	735	750	755	735	730	700	610
60	Me. HP	0.03	0.06	0.09	0.16	0.20	0.23	0.29	0.39
	Efficiency	53	59	61	66	66	69	70	70
	O.T.	695	725	715	710	690	700	670	585

Notes:

Reducers may be used in floor, ceiling, or wall mounted positions.
 Unless specified, standard reducers are supplied with right-hand helix gear sets.
 Reducers are designed for shaft rotation in either direction. See General information section.
 All units can be motorized.
 Other ratios are available on request.

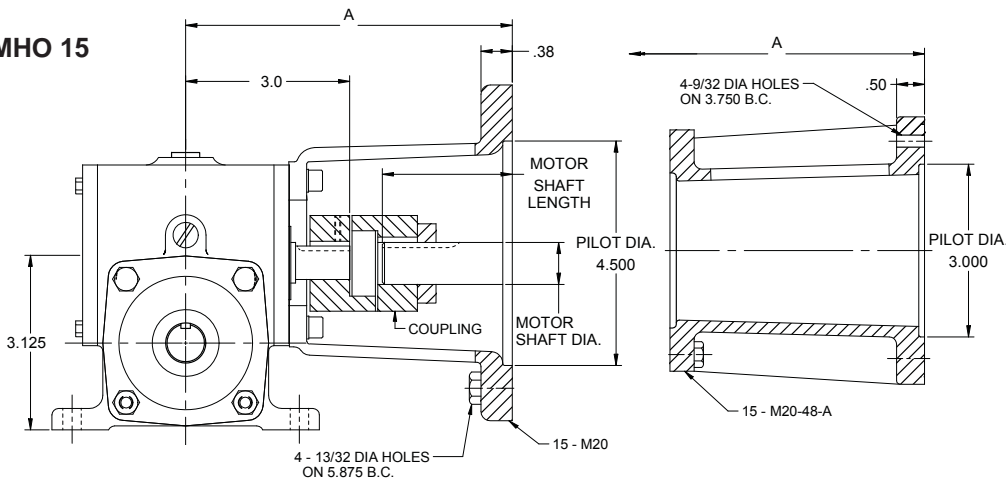
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence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

Key: Me. HP = Mech. Input Power (HP) O.T. = Output Torque (In. Lb.)

Shown
Model MHO 15



**NEMA C
 Face Motors**

DIMENSIONS							
MOTOR					REDUCER		
FRAME SIZE	PILOT DIA.	SHAFT			A	FLGE. DIA.	COUPLING NUMBER
		LGTH.	DIA.	KWY			
48C	3.000	1.68	.500	FLAT	5.20	4.25	15-140-050/062
56C	4.500	2.06	.625	3/16	5.58	6.50	15-140-062
143TC 145TC	4.500	2.12	.875	3/16	5.58	6.50	15-140-062/088
							15-140-050/075

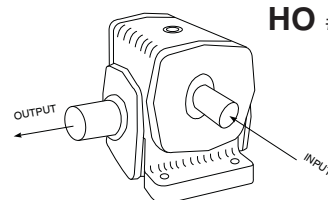
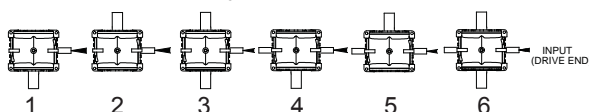
When ordering specify frame size used.

Remarks: Reducer can be shipped with or without motor to suit requirements. Adapter flange will extend below footline of reducers.

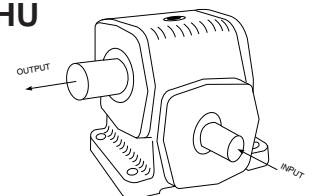
- 15-M20
- Model MHO approx. .187
- Model MHU approx. 1.687
- 15-M20-48A
- Model MHU approx. .50
- Used w/15-M20-48A

Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. The hand of assembly is always determined as a floor mounted unit.

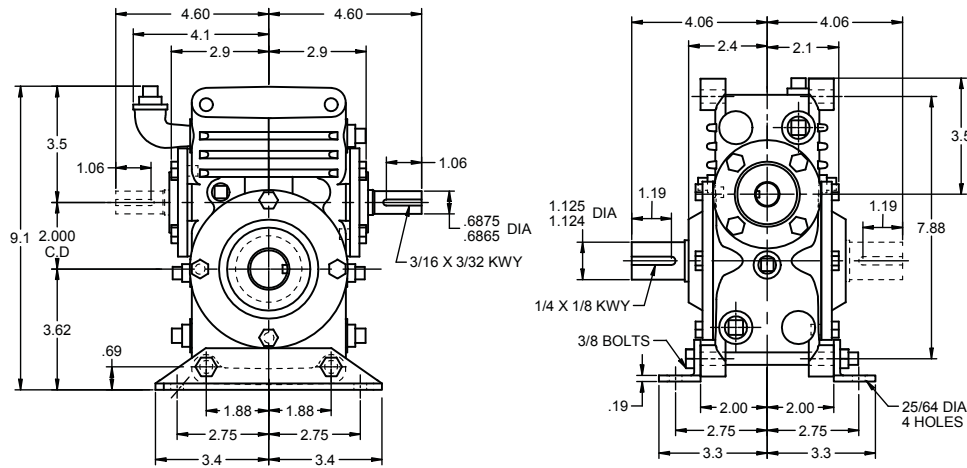


HO #1 Shown HU



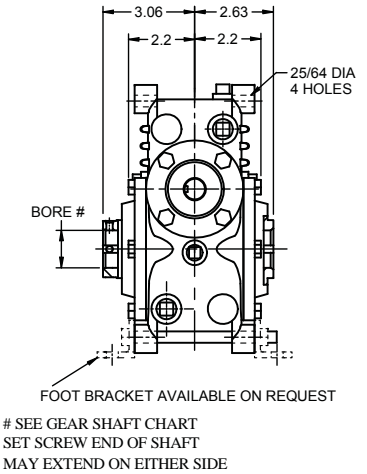
Cone Drive Single Reduction Units - 2.000" C.D.
Size 20 Solid Shaft

Model HO Worm Over Gear net wt. 26 lbs

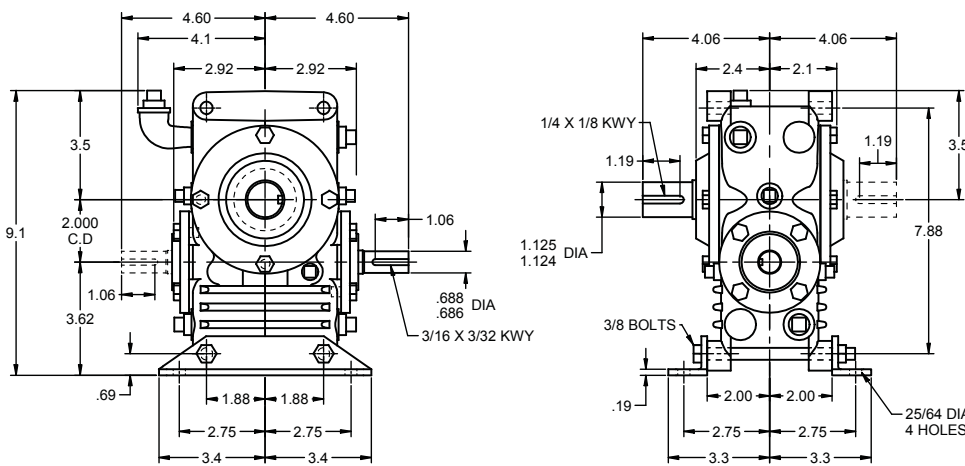


Hollow Shaft

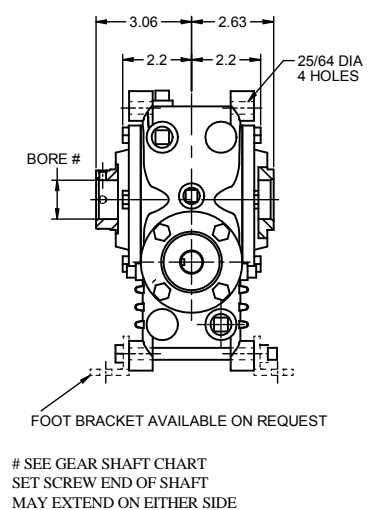
SHO net wt. 27 lbs



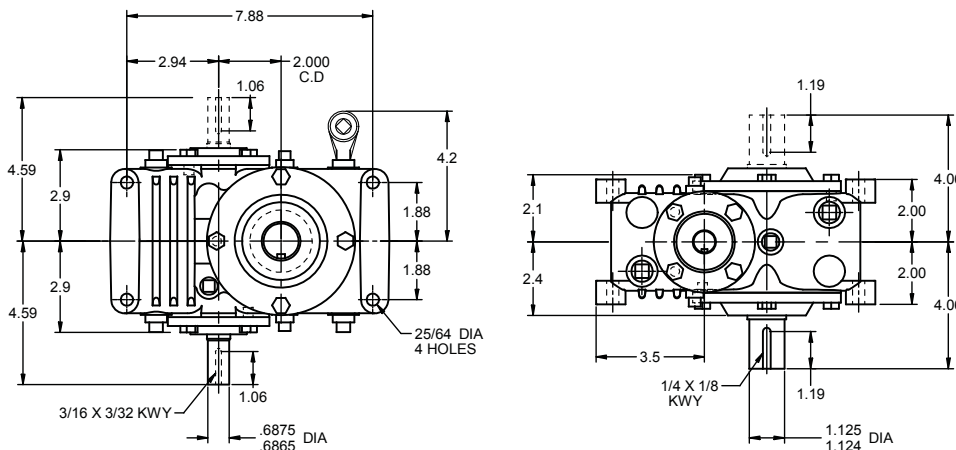
Model HU Worm Under Gear net wt. 26 lbs



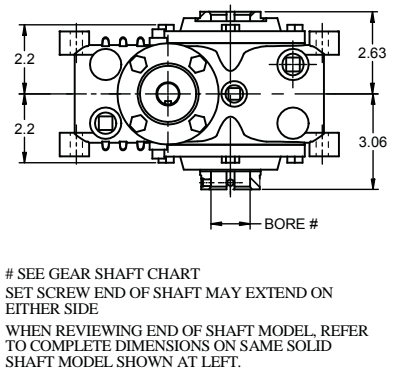
SHU net wt. 27 lbs



Model HV Worm Horizontal Gear Shaft Vertical net wt. 26 lbs



SHV net wt. 27 lbs



INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 2.000" C.D. Size 20

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR									
		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me. HP	0.47	0.88	1.25	2.21	2.62	3.02	3.64	4.59
	Th. HP	0.40	0.73	1.04	1.84	2.18	2.52	3.03	3.43
	Efficiency	89	90	91	91	91	92	92	92
	O.T.	1,330	1,250	1,200	1,095	1,045	1,010	920	760
10	Me. HP	0.32	0.61	0.86	1.53	1.83	2.11	2.57	3.28
	Th. HP	0.25	0.47	0.66	1.18	1.40	1.63	1.98	2.53
	Efficiency	83	85	86	87	87	89	90	90
	O.T.	1,700	1,630	1,560	1,450	1,390	1,365	1,270	1,065
15	Me. HP	0.26	0.49	0.70	1.24	1.48	1.72	2.10	2.69
	Th. HP	0.18	0.33	0.47	0.83	0.99	1.15	1.40	1.79
	Efficiency	79	81	82	85	85	87	88	88
	O.T.	1,965	1,880	1,810	1,715	1,655	1,625	1,515	1,280
20	Me. HP	0.20	0.38	0.54	0.95	1.13	1.32	1.61	2.06
	Th. HP	0.13	0.25	0.36	0.63	0.76	0.88	1.07	1.38
	Efficiency	75	77	78	83	83	83	84	85
	O.T.	1,900	1,830	1,755	1,715	1,650	1,585	1,485	1,265
25	Me. HP	0.16	0.30	0.43	0.77	0.91	1.06	1.30	1.66
	Th. HP	0.11	0.20	0.29	0.51	0.61	0.71	0.87	1.11
	Efficiency	71	75	77	81	81	83	84	84
	O.T.	1,810	1,795	1,745	1,685	1,625	1,595	1,495	1,260
30	Me. HP	0.14	0.25	0.36	0.64	0.77	0.89	1.09	1.40
	Th. HP	0.09	0.17	0.24	0.43	0.51	0.59	0.73	0.93
	Efficiency	68	70	72	75	75	79	80	80
	O.T.	1,745	1,685	1,645	1,570	1,510	1,530	1,430	1,210
40	Me. HP	0.10	0.19	0.27	0.48	0.58	0.67	0.82	1.05
	Th. HP	0.07	0.13	0.18	0.32	0.38	0.45	0.55	0.70
	Efficiency	61	63	67	72	75	75	76	76
	O.T.	1,570	1,525	1,535	1,515	1,515	1,460	1,365	1,155
50	Me. HP	0.08	0.15	0.22	0.39	0.46	0.54	0.66	0.84
	Th. HP	0.05	0.10	0.15	0.26	0.31	0.36	0.44	0.56
	Efficiency	54	60	64	70	70	72	73	73
	O.T.	1,395	1,455	1,470	1,475	1,420	1,405	1,315	1,110
60	Me. HP	0.07	0.13	0.18	0.32	0.39	0.45	0.55	0.71
	Th. HP	0.05	0.09	0.12	0.22	0.26	0.30	0.37	0.47
	Efficiency	53	59	61	66	66	69	70	70
	O.T.	1,370	1,435	1,400	1,395	1,340	1,350	1,265	1,070

Key: Me. HP = Mech. Input Power (HP) Th. HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.)

Notes:

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, filler, and drains are provided.

For cap and carrier dimensions not shown, see mounting section.

All units can be motorized. Motor adapter to be located at extension end of input shaft.

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

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
1.375*	20-S60-106	1/4 X 1/8
1.250*	20-S60-104	1/4 X 1/8
1.1875*	20-S60-103	1/4 X 1/8
1.125*	20-S60-102	1/4 X 1/8
1.000*	20-S60-100	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.

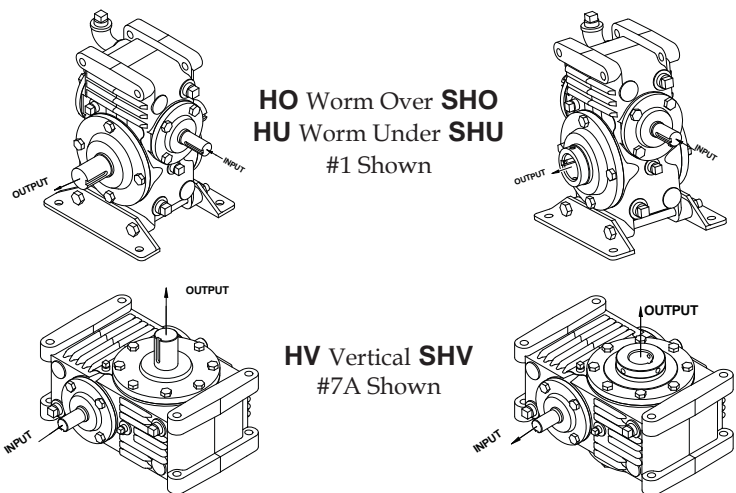
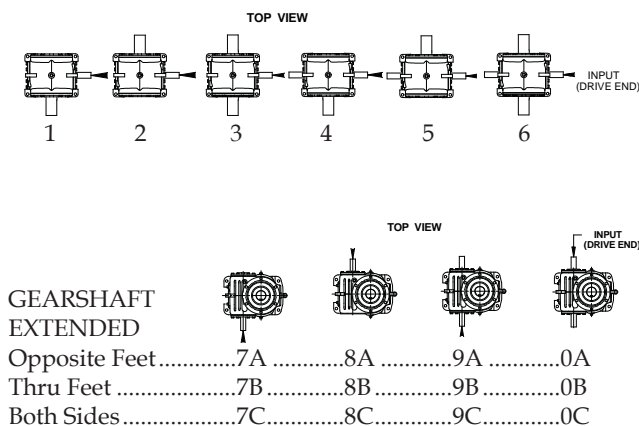
CAUTION:

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

Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. (Ceiling and wall mounted units follow in this section.)

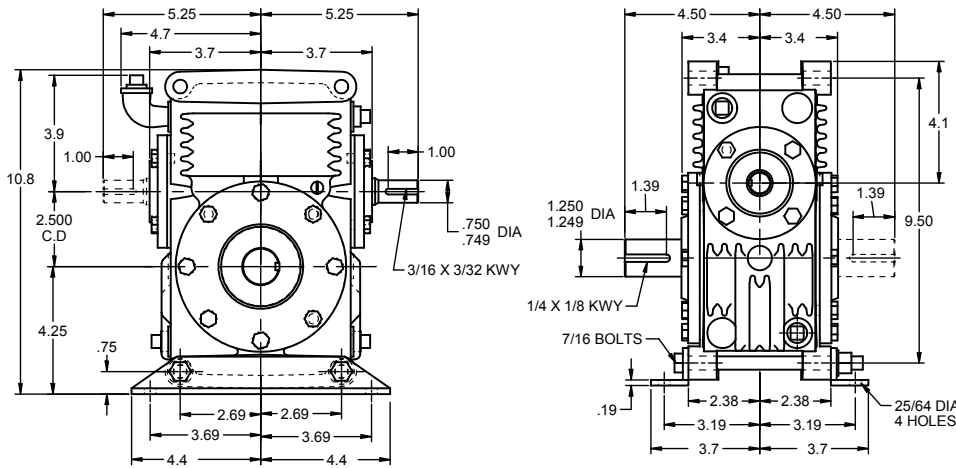
The hand of assembly is always determined as a floor mounted unit.



Cone Drive Single Reduction Units - 2.500" C.D.

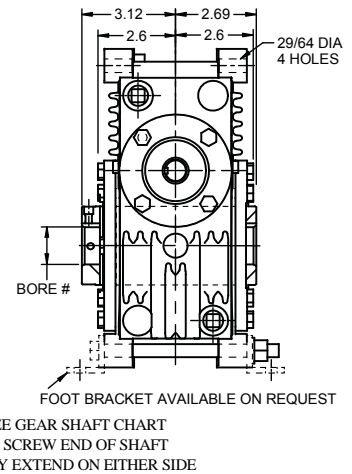
Size 25 Solid Shaft

Model HO Worm Over Gear net wt. 45 lbs

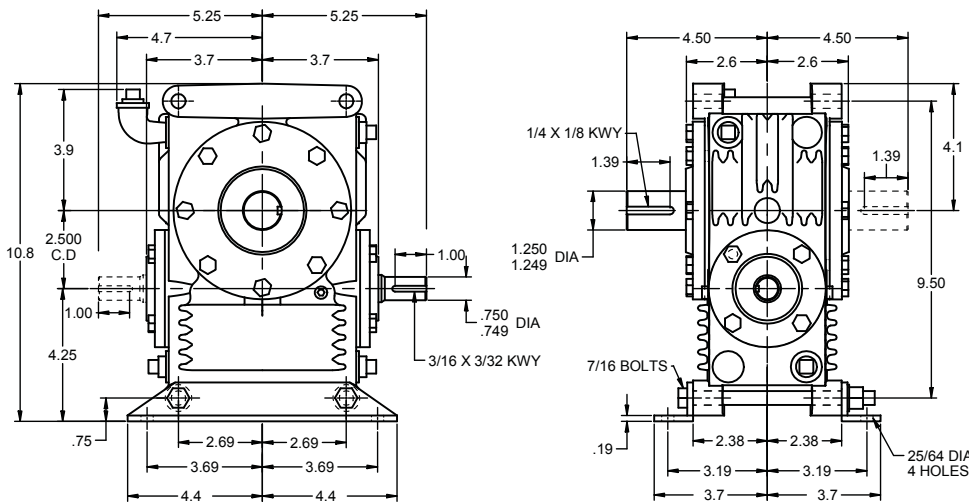


Hollow Shaft

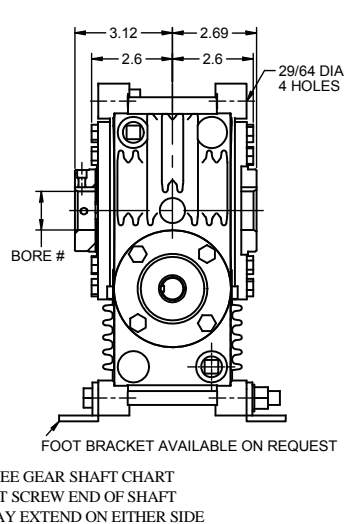
SHO net wt. 46 lbs



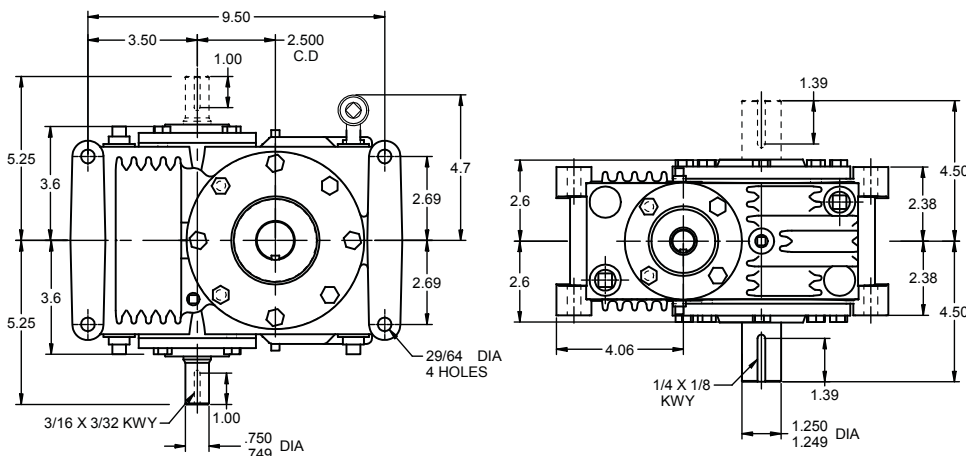
Model HU Worm Under Gear net wt. 45 lbs



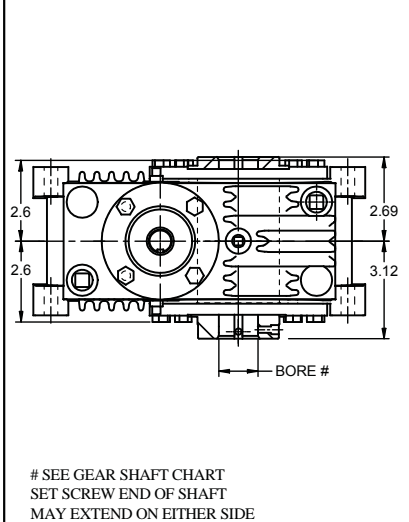
SHU net wt. 46 lbs



Model HV Worm Horizontal Gear Shaft Vertical net wt. 45 lbs



SHV net wt. 46 lbs



INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 2.500" C.D. Size 25

AGMA Horsepower & Output Torque Ratings for 1.0 Service Factor		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	0.94	1.72	2.45	4.22	4.95	5.60	6.56	8.23
	Th.HP	0.78	1.43	2.04	3.52	4.02	4.20	4.54	5.00
	Efficiency	89	90	91	91	91	92	92	92
	O.T.	2,625	2,440	2,345	2,090	1,975	1,870	1,655	1,365
10	Me.HP	0.65	1.19	1.69	2.95	3.49	3.97	4.72	5.93
	Th.HP	0.50	0.91	1.30	2.27	2.68	3.06	3.63	4.01
	Efficiency	83	85	86	87	87	89	90	90
	O.T.	3,375	3,180	3,050	2,790	2,655	2,560	2,330	1,925
15	Me.HP	0.52	0.96	1.37	2.39	2.83	3.24	3.86	4.83
	Th.HP	0.35	0.64	0.91	1.60	1.89	2.16	2.57	3.22
	Efficiency	79	81	82	85	85	87	88	88
	O.T.	3,895	3,675	3,535	3,320	3,165	3,060	2,795	2,300
20	Me.HP	0.40	0.74	1.05	1.83	2.17	2.48	2.96	3.71
	Th.HP	0.27	0.49	0.70	1.22	1.45	1.66	1.98	2.47
	Efficiency	75	77	78	83	83	83	84	85
	O.T.	3,770	3,575	3,435	3,310	3,155	2,990	2,730	2,270
25	Me.HP	0.32	0.59	0.84	1.48	1.75	2.00	2.39	2.99
	Th.HP	0.21	0.40	0.56	0.98	1.17	1.33	1.59	2.00
	Efficiency	71	75	77	81	81	83	84	84
	O.T.	3,595	3,505	3,415	3,250	3,100	3,010	2,750	2,265
30	Me.HP	0.27	0.50	0.71	1.24	1.46	1.68	2.00	2.52
	Th.HP	0.18	0.33	0.47	0.82	0.98	1.12	1.34	1.68
	Efficiency	68	70	72	75	75	79	80	80
	O.T.	3,460	3,290	3,210	3,025	2,885	2,880	2,640	2,180
40	Me.HP	0.20	0.37	0.53	0.93	1.10	1.26	1.51	1.90
	Th.HP	0.13	0.25	0.35	0.62	0.74	0.84	1.01	1.26
	Efficiency	61	63	67	72	75	75	76	76
	O.T.	3,115	2,970	3,000	2,920	2,900	2,745	2,515	2,080
50	Me.HP	0.16	0.30	0.43	0.75	0.89	1.01	1.21	1.52
	Th.HP	0.11	0.20	0.28	0.50	0.59	0.68	0.81	1.01
	Efficiency	54	60	64	70	70	72	73	73
	O.T.	2,765	2,835	2,875	2,845	2,715	2,645	2,420	2,000
60	Me.HP	0.14	0.25	0.36	0.62	0.74	0.85	1.01	1.27
	Th.HP	0.09	0.17	0.24	0.42	0.49	0.56	0.67	0.85
	Efficiency	53	59	61	66	66	69	70	70
	O.T.	2,715	2,795	2,740	2,685	2,560	2,535	2,330	1,920

Notes:

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, filler, and drains are provided.

For cap and carrier dimensions not shown, see mounting section.

Steeple bearing arrangements follow in this section.

All units can be motorized. Motor adapter to be located at extension end of input shaft.

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

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

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

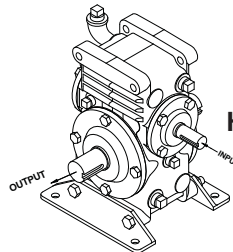
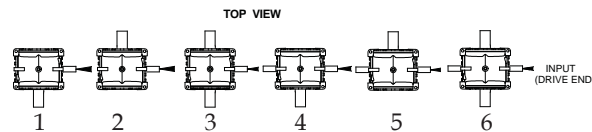
Special hollow gear shaft bore sizes are available at additional cost.
 *AGMA Standard
 Bore Tolerance: +.002, -.000
 2 set screws at long end of shaft.

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

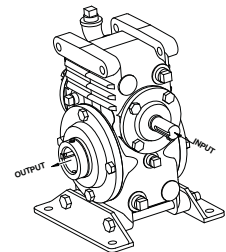
Key: Me.HP = Mech. Input Power (HP) Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.)

Hand of Assembly Floor Mounted Units

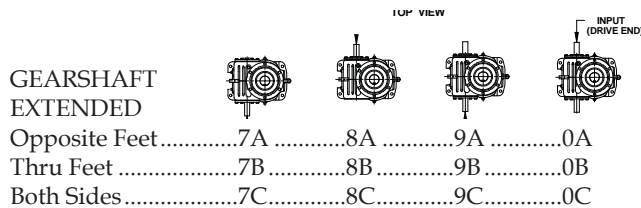
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



HO Worm Over SHU Worm Under SHU
 #1 Shown



HV Vertical SHV
 #7A Shown

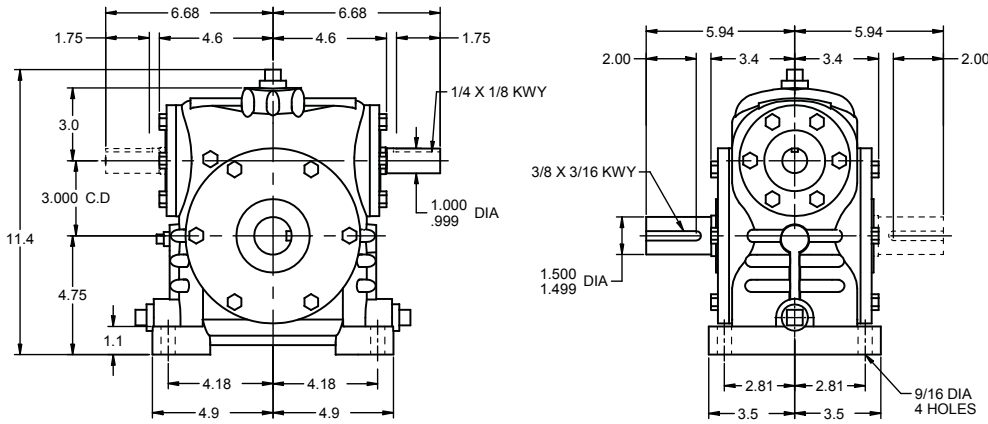


Cone Drive Single Reduction Units - 3.000" C.D.
Size 30 Solid Shaft

Hollow Shaft

Model HO Worm Over Gear net wt. 73 lbs

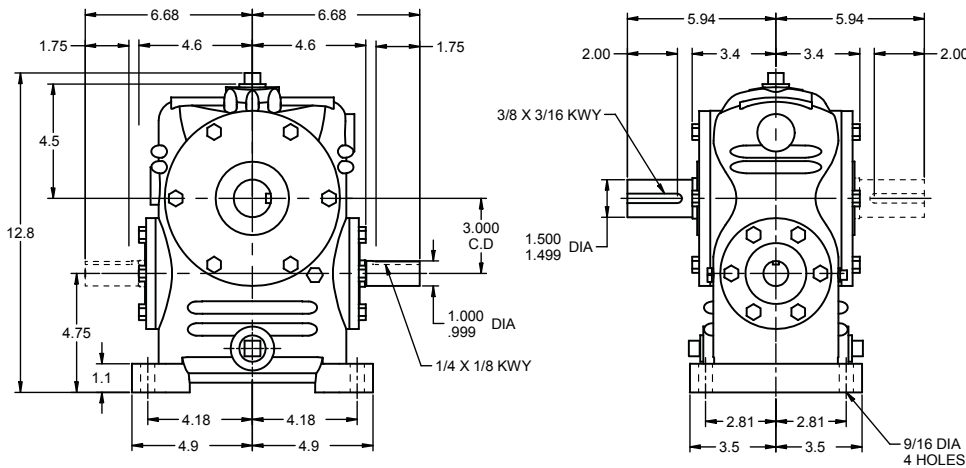
SHO net wt. 92 lbs



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

Model HU Worm Under Gear net wt. 83 lbs

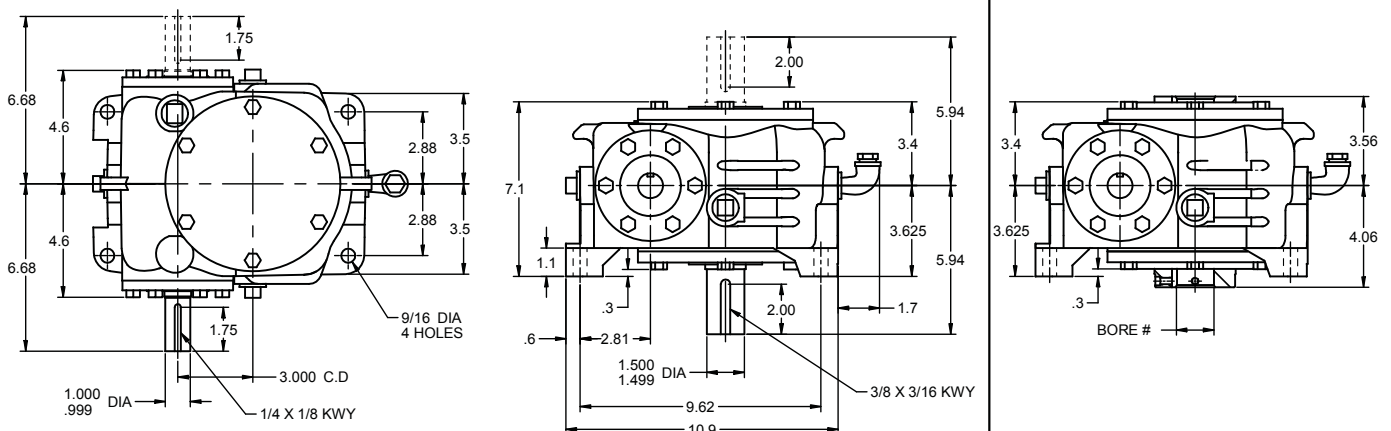
SHU net wt. 90 lbs



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

Model HV Worm Horizontal Gear Shaft Vertical net wt. 74 lbs

SHV net wt. 89 lbs



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

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 3.000" C.D.

Size 30

AGMA Horsepower & Output Torque Ratings for 1.0 Service Factor									
		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	1.66	3.03	4.32	7.26	8.37	9.34	10.80	13.58
	Th.HP	1.37	2.03	2.55	3.63	4.06	4.25	4.59	5.05
	Efficiency	89	90	91	91	91	92	92	92
	O.T.	4,645	4,300	4,130	3,590	3,335	3,115	2,725	2,250
10	Me.HP	1.15	2.11	3.00	5.17	6.05	6.84	8.03	10.05
	Th.HP	0.88	1.62	2.31	3.19	3.38	3.61	3.80	4.05
	Efficiency	83	85	86	87	87	89	90	90
	O.T.	6,005	5,650	5,425	4,890	4,610	4,415	3,965	3,255
15	Me.HP	0.93	1.71	2.43	4.20	4.93	5.59	6.57	8.22
	Th.HP	0.62	1.14	1.62	2.71	2.87	2.99	3.12	3.33
	Efficiency	79	81	82	85	85	87	88	88
	O.T.	6,930	6,530	6,275	5,825	5,500	5,285	4,755	3,910
20	Me.HP	0.71	1.31	1.86	3.23	3.79	4.30	5.07	6.34
	Th.HP	0.47	0.87	1.24	2.15	2.53	2.73	2.81	2.90
	Efficiency	75	77	78	83	83	83	84	85
	O.T.	6,730	6,350	6,105	5,820	5,505	5,175	4,670	3,880
25	Me.HP	0.57	1.06	1.50	2.60	3.05	3.46	4.09	5.11
	Th.HP	0.38	0.70	1.00	1.73	2.03	2.29	2.34	2.43
	Efficiency	71	75	77	81	81	83	84	84
	O.T.	6,415	6,235	6,070	5,715	5,410	5,210	4,705	3,865
30	Me.HP	0.48	0.88	1.26	2.18	2.56	2.91	3.43	4.29
	Th.HP	0.32	0.59	0.84	1.45	1.70	1.94	2.11	2.17
	Efficiency	68	70	72	75	75	79	80	80
	O.T.	6,175	5,850	5,705	5,335	5,035	4,995	4,515	3,710
40	Me.HP	0.36	0.67	0.95	1.64	1.93	2.19	2.58	3.23
	Th.HP	0.24	0.44	0.63	1.09	1.28	1.46	1.72	1.93
	Efficiency	61	63	67	72	75	75	76	76
	O.T.	5,555	5,280	5,325	5,135	5,060	4,755	4,300	3,535
50	Me.HP	0.29	0.53	0.76	1.32	1.55	1.76	2.07	2.60
	Th.HP	0.19	0.36	0.51	0.88	1.03	1.17	1.38	1.73
	Efficiency	54	60	64	70	70	72	73	73
	O.T.	4,930	5,045	5,100	5,015	4,745	4,585	4,140	3,415
60	Me.HP	0.24	0.45	0.63	1.10	1.29	1.47	1.73	2.17
	Th.HP	0.16	0.30	0.42	0.73	0.86	0.98	1.15	1.44
	Efficiency	53	59	61	66	66	69	70	70
	O.T.	4,845	4,965	4,865	4,735	4,480	4,400	3,975	3,275

Notes:

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.

For cap and carrier dimensions not shown, see mounting section.

Steeple bearing arrangements follow in this section.

All units can be motorized. Motor adapter to be located at extension end of input shaft.

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

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

BORE INCHES	GEARSHAFT 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

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

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

*AGMA Standard

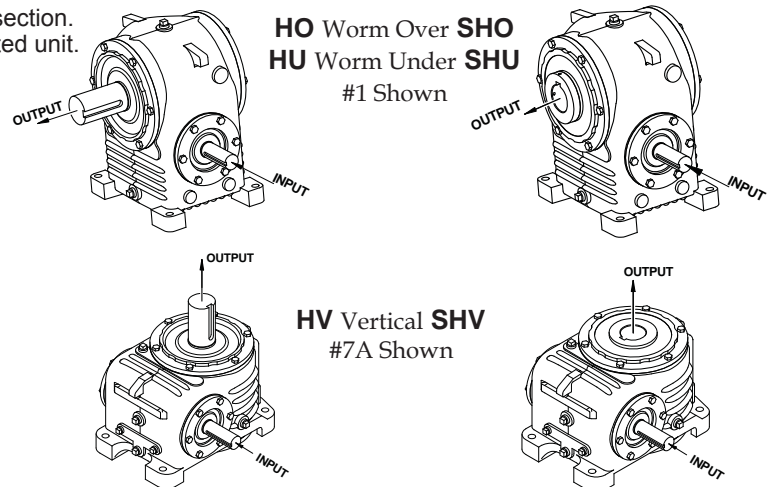
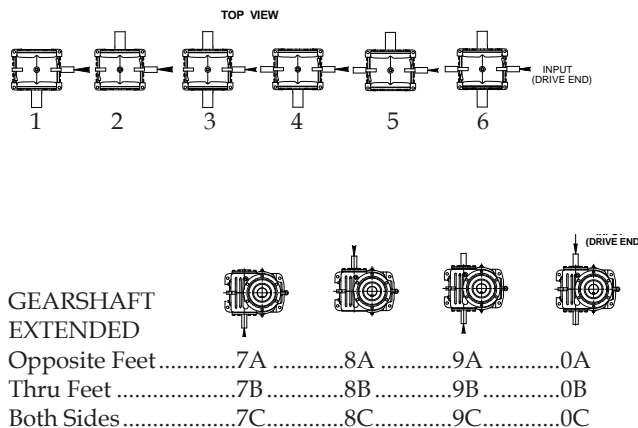
Bore Tolerance: +.002, -.000

2 set screws at long end of shaft.

Key: Me.HP = Mech. Input Power (HP) Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.)

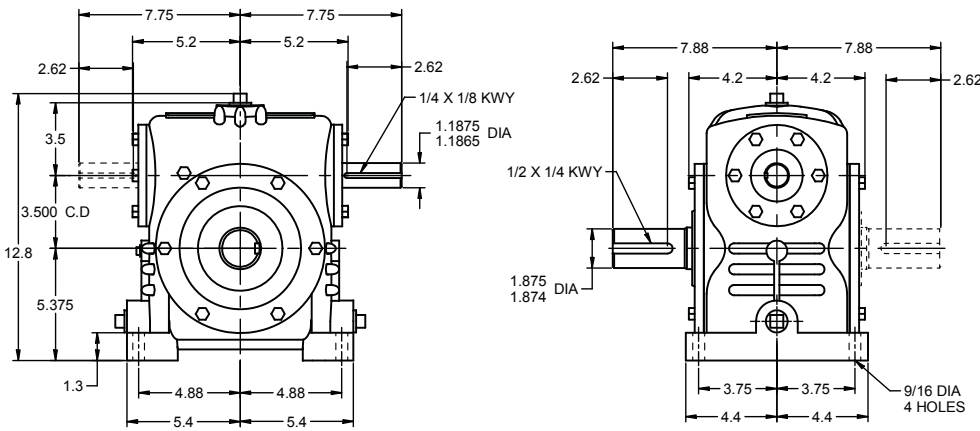
Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



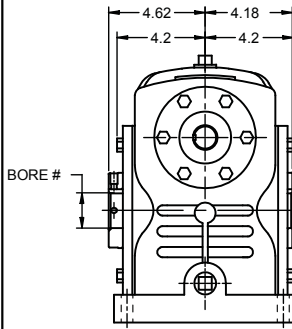
Cone Drive Single Reduction Units - 3.500" C.D.
Size 35 Solid Shaft

Model HO Worm Over Gear net wt. 122 lbs



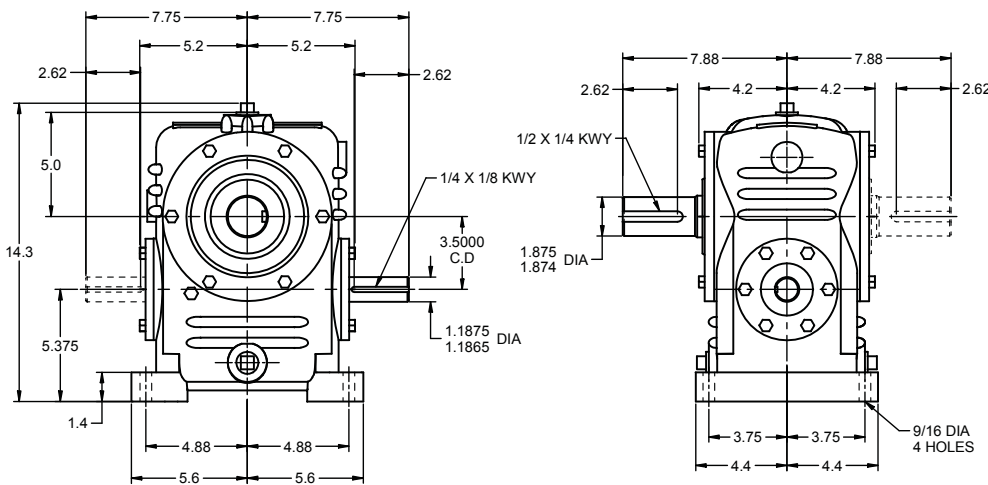
Hollow Shaft

SHO net wt. 126 lbs

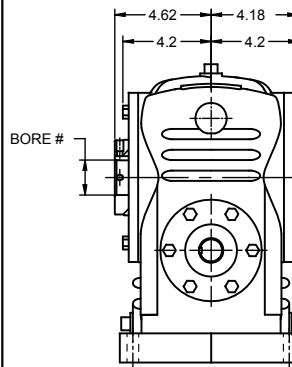


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HU Worm Under Gear net wt. 134 lbs

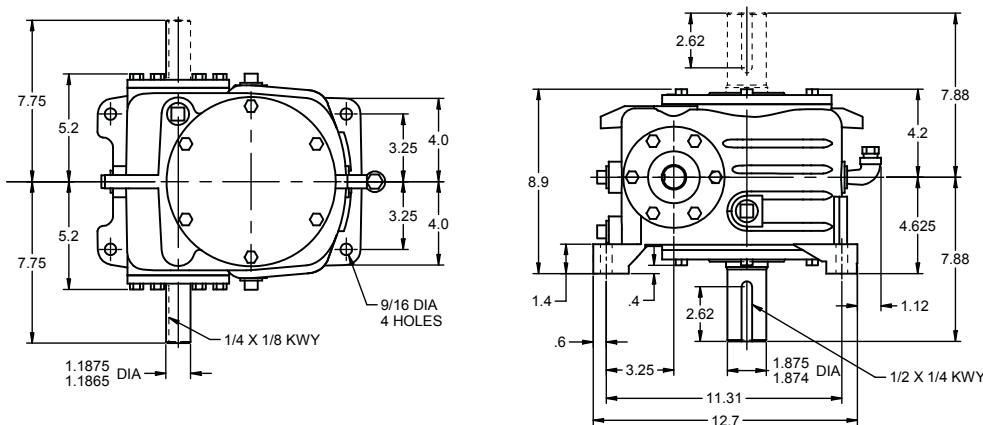


SHU net wt. 140 lbs

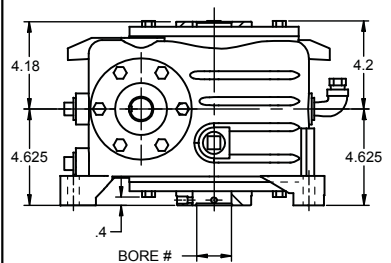


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HV Worm Horizontal Gear Shaft Vertical net wt. 120 lbs



SHV net wt. 123 lbs



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

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 3.500" C.D.

Size 35

AGMA Horsepower & Output Torque Ratings for 1.0 Service Factor									
		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	3.06	5.59	7.91	12.97	14.79	16.37	19.11	23.54
	Th.HP	2.55	4.41	5.68	8.09	9.06	9.77	10.55	11.61
	Th.HP Fan	3.06	5.59	7.91	12.97	14.79	16.37	19.11	23.21
	Efficiency	89	90	91	91	91	92	92	92
	O.T.	8,595	7,930	7,565	6,410	5,890	5,455	4,815	3,900
10	Me.HP	2.12	3.88	5.53	9.30	10.73	12.00	13.92	17.37
	Th.HP	1.63	2.98	4.26	6.57	7.19	7.67	8.25	8.80
	Th.HP Fan	2.12	3.88	5.53	9.30	10.73	12.00	13.92	17.37
	Efficiency	83	85	86	87	87	89	90	90
	O.T.	11,095	10,385	9,995	8,795	8,170	7,735	6,865	5,630
15	Me.HP	1.71	3.14	4.48	7.56	8.76	9.81	11.40	14.27
	Th.HP	1.14	2.09	2.98	5.04	5.84	6.54	7.60	6.95
	Th.HP Fan	1.71	3.14	4.48	7.56	8.76	9.81	11.40	13.91
	Efficiency	79	81	82	85	85	87	88	88
	O.T.	12,805	12,025	11,565	10,470	9,775	9,275	8,245	6,785
20	Me.HP	1.31	2.40	3.43	5.80	6.73	7.55	8.76	10.98
	Th.HP	0.88	1.60	2.29	3.87	4.48	5.03	5.58	5.82
	Th.HP Fan	1.31	2.40	3.43	5.80	6.73	7.55	8.76	10.98
	Efficiency	75	77	78	83	83	83	84	85
	O.T.	12,410	11,655	11,235	10,465	9,775	9,080	8,065	6,725
25	Me.HP	1.06	1.94	2.77	4.68	5.43	6.10	7.07	8.84
	Th.HP	0.71	1.29	1.84	3.12	3.62	4.06	4.64	4.82
	Th.HP Fan	1.06	1.94	2.77	4.68	5.43	6.10	7.07	8.84
	Efficiency	71	75	77	81	81	83	84	84
	O.T.	11,830	11,445	11,185	10,305	9,625	9,165	8,140	6,690
30	Me.HP	0.89	1.62	2.32	3.93	4.55	5.11	5.93	7.41
	Th.HP	0.59	1.08	1.54	2.62	3.03	3.41	3.95	4.17
	Th.HP Fan	0.89	1.62	2.32	3.93	4.55	5.11	5.93	7.41
	Efficiency	68	70	72	75	75	79	80	80
	O.T.	11,390	10,740	10,515	9,610	8,960	8,770	7,795	6,405
40	Me.HP	0.67	1.22	1.74	2.96	3.42	3.85	4.47	5.57
	Th.HP	0.44	0.81	1.16	1.97	2.28	2.57	2.98	3.64
	Th.HP Fan	0.67	1.22	1.74	2.96	3.42	3.85	4.47	5.57
	Efficiency	61	63	67	72	75	75	76	76
	O.T.	10,245	9,695	9,810	9,250	8,980	8,365	7,445	6,100
50	Me.HP	0.53	0.98	1.40	2.37	2.75	3.09	3.59	4.50
	Th.HP	0.36	0.65	0.93	1.58	1.83	2.06	2.39	3.00
	Th.HP Fan	0.53	0.98	1.40	2.37	2.75	3.09	3.59	4.50
	Efficiency	54	60	64	70	70	72	73	73
	O.T.	9,095	9,255	9,395	9,020	8,425	8,055	7,170	5,915
60	Me.HP	0.45	0.82	1.17	1.98	2.29	2.58	2.99	3.75
	Th.HP	0.30	0.54	0.78	1.32	1.53	1.72	1.99	2.50
	Th.HP Fan	0.45	0.82	1.17	1.98	2.29	2.58	2.99	3.75
	Efficiency	53	59	61	66	66	69	70	70
	O.T.	8,940	9,115	8,970	8,515	7,955	7,730	6,885	5,680

Key: Me.HP = Mech. Input Power (HP) Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.) Th.HP Fan = Thermal Input Power - Fan

Notes:

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, filler, and drains are provided.

For cap and carrier dimensions not shown, see mounting section. Steeple bearing arrangements follow in this section.

All units can be motorized. Motor adapter to be located at extension end of input shaft.

Fan cooling can be supplied on models HU and HV only.

Contact Cone Drive.

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

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
2.750*	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

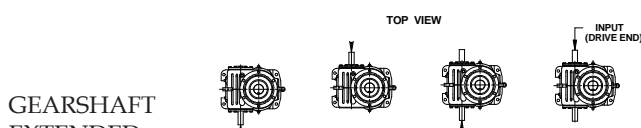
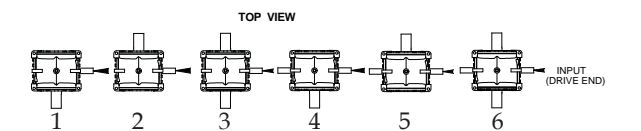
Bore Tolerance: +.002, -.000

2 set screws at long end of shaft.

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

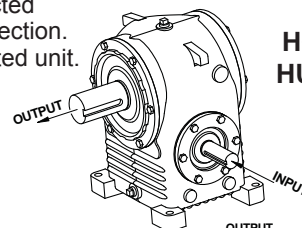
Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.

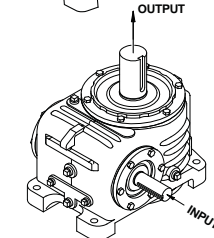
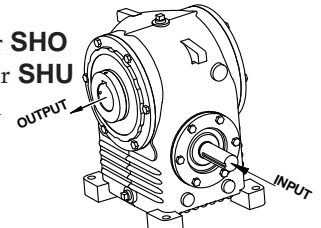


GEARSHAFT EXTENDED

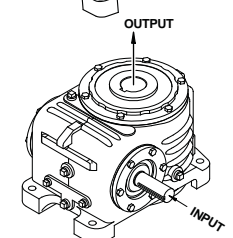
- Opposite Feet7A8A9A0A
- Thru Feet7B8B9B0B
- Both Sides7C8C9C0C



HO Worm Over
HU Worm Under
 #1 Shown

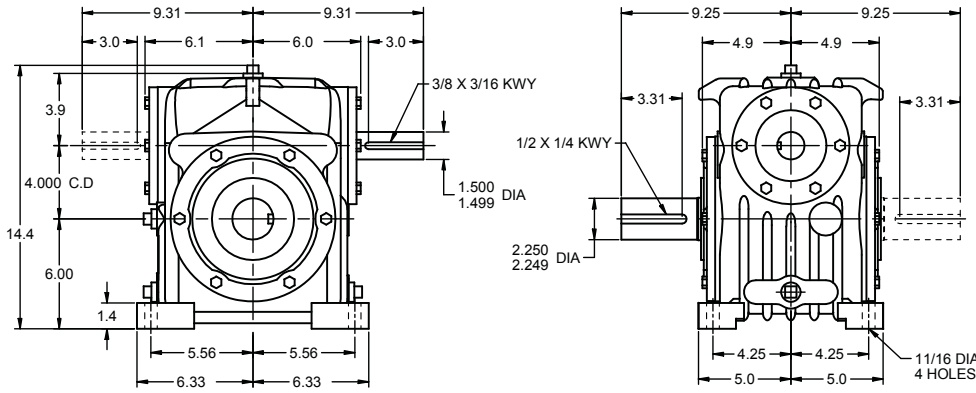


HV Vertical
 #7A Shown



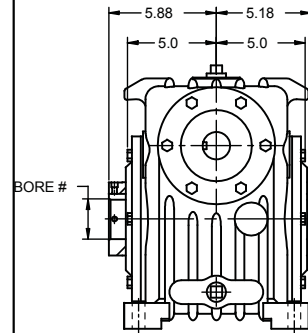
Cone Drive Single Reduction Units - 4.000" C.D.
Size 40 Solid Shaft

Model HO Worm Over Gear net wt. 175 lbs



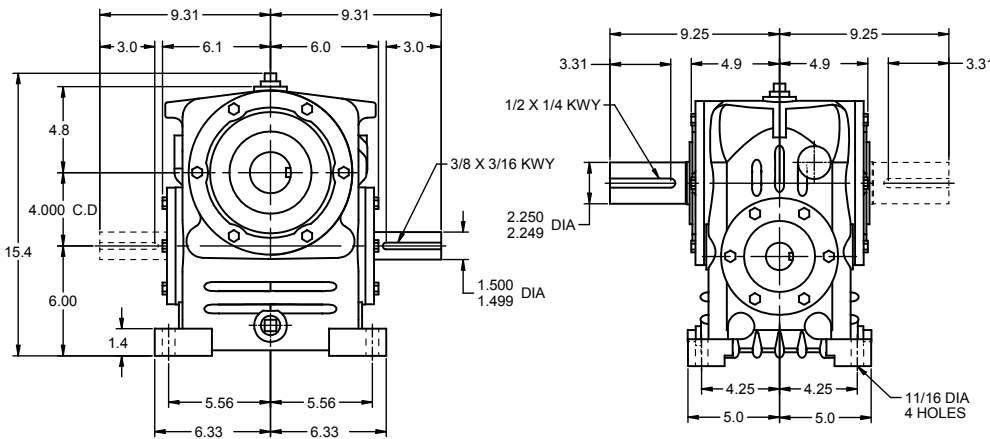
Hollow Shaft

SHO net wt. 185 lbs

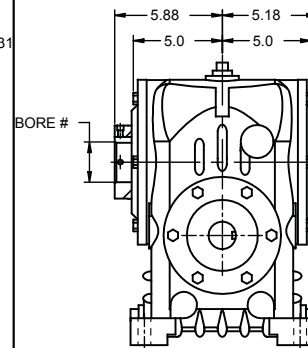


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HU Worm Under Gear net wt. 187 lbs

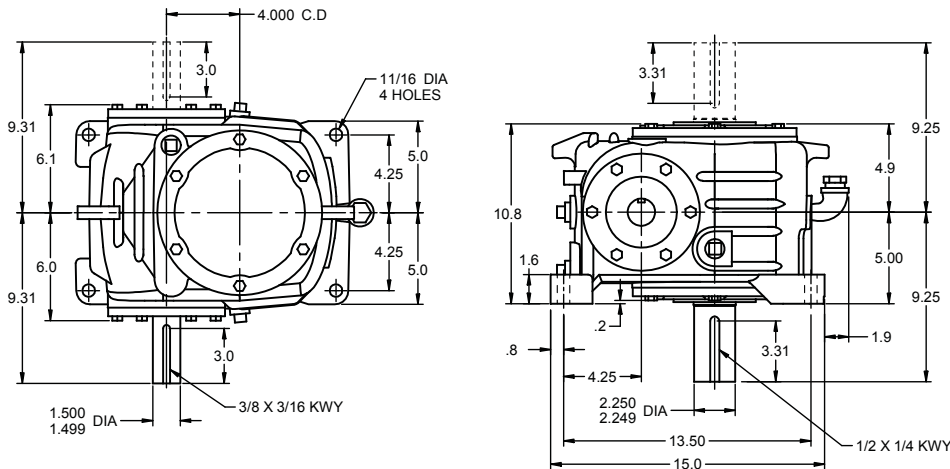


SHU net wt. 197 lbs

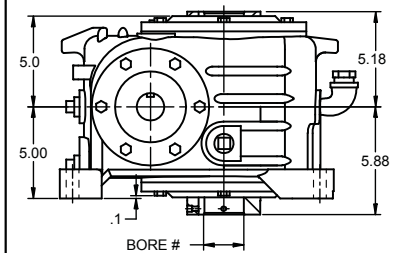


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HV Worm Horizontal Gear Shaft Vertical net wt. 170 lbs



SHV net wt. 180 lbs



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

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 4.000" C.D.

Size 40

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR									
		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	4.39	8.03	11.27	17.98	20.30	22.40	25.99	31.84
	Th.HP	3.53	5.35	6.88	9.80	10.97	11.83	12.78	14.06
	Th.HP Fan	4.39	8.03	11.27	17.98	20.30	22.40	25.56	28.12
	Efficiency	92	93	94	94	94	95	95	95
	O.T.	12,715	11,770	11,130	9,180	8,350	7,710	6,765	5,445
10	Me.HP	3.06	5.58	7.92	13.07	14.96	16.59	19.30	23.88
	Th.HP	2.35	4.29	5.80	7.96	8.71	9.30	9.99	10.66
	Th.HP Fan	3.06	5.58	7.92	13.07	14.96	16.59	19.30	21.33
	Efficiency	86	88	89	90	90	92	93	93
	O.T.	16,570	15,475	14,800	12,780	11,785	11,055	9,835	8,000
15	Me.HP	2.47	4.51	6.42	10.65	12.22	13.57	15.73	19.58
	Th.HP	1.65	3.01	4.28	7.10	8.15	7.46	7.89	8.42
	Th.HP Fan	2.47	4.51	6.42	10.65	12.22	13.57	15.73	16.85
	Efficiency	82	84	85	88	89	90	91	91
	O.T.	19,160	17,920	17,180	15,270	14,280	13,270	11,770	9,625
20	Me.HP	1.90	3.46	4.91	8.17	9.39	10.45	12.10	15.08
	Th.HP	1.26	2.31	3.28	5.45	6.19	6.50	6.76	7.05
	Th.HP Fan	1.90	3.46	4.91	8.17	9.39	10.45	12.10	14.10
	Efficiency	78	80	81	86	86	86	87	88
	O.T.	18,635	17,430	16,720	15,275	14,130	13,020	11,535	9,555
25	Me.HP	1.53	2.79	3.96	6.60	7.58	8.44	9.80	12.14
	Th.HP	1.02	1.86	2.64	4.40	5.05	5.47	5.62	5.84
	Th.HP Fan	1.53	2.79	3.96	6.60	7.58	8.44	9.80	11.69
	Efficiency	74	78	80	84	84	86	87	87
	O.T.	17,800	17,135	16,655	15,050	13,930	13,140	11,675	9,510
30	Me.HP	1.28	2.34	3.32	5.54	6.36	7.07	8.23	10.21
	Th.HP	0.85	1.56	2.21	3.69	4.24	4.71	4.91	5.05
	Th.HP Fan	1.28	2.34	3.32	5.54	6.36	7.07	8.23	10.11
	Efficiency	71	73	75	78	81	82	83	83
	O.T.	17,170	16,125	15,700	14,080	13,535	12,595	11,230	9,155
40	Me.HP	0.96	1.76	2.50	4.17	4.79	5.33	6.19	7.68
	Th.HP	0.64	1.17	1.67	2.78	3.19	3.55	4.13	4.41
	Th.HP Fan	0.96	1.76	2.50	4.17	4.79	5.33	6.19	7.68
	Efficiency	64	66	70	75	76	78	79	79
	O.T.	15,540	14,620	14,715	13,575	12,730	12,045	10,720	8,735
50	Me.HP	0.77	1.41	2.01	3.34	3.84	4.28	4.97	6.16
	Th.HP	0.52	0.94	1.34	2.23	2.56	2.85	3.31	3.92
	Th.HP Fan	0.77	1.41	2.01	3.34	3.84	4.28	4.97	6.16
	Efficiency	57	63	67	73	74	75	76	76
	O.T.	13,880	13,990	14,125	13,250	12,430	11,610	10,340	8,425
60	Me.HP	0.64	1.18	1.68	2.79	3.20	3.57	4.14	5.14
	Th.HP	0.43	0.78	1.12	1.86	2.14	2.38	2.76	3.43
	Th.HP Fan	0.64	1.18	1.68	2.79	3.20	3.57	4.14	5.14
	Efficiency	56	62	64	69	71	72	73	73
	O.T.	13,655	13,790	13,510	12,540	11,940	11,160	9,945	8,105

Notes:

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, filler, and drains are provided.
 For cap and carrier dimensions not shown, see mounting section.
 Steeple bearing arrangement follows in this section.
 All units can be motorized. Motor adapter to be located at extension end of input shaft.
 Fan cooling can be supplied with water cooling coils in oil sump.
 Units can be supplied with water cooling coils in oil sump.
 Set screw end of hollow shaft is considered the extension end.
 All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.
 For additional available ratios and left-hand helix gearing Contact Cone Drive.
 Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

BORE INCHES	GEARSHAFT 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

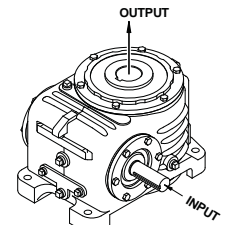
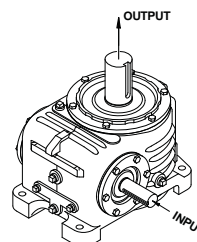
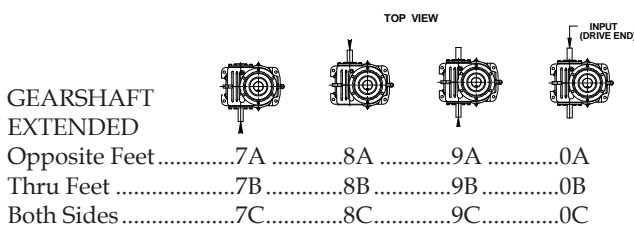
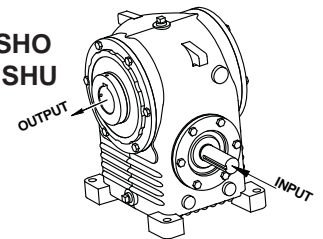
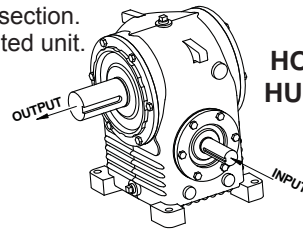
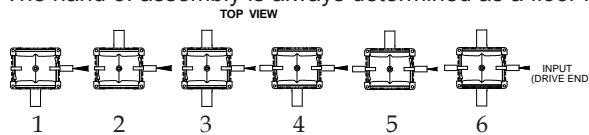
Special hollow gear shaft bore sizes are available at additional cost.
 *AGMA Standard
 Bore Tolerance: +.003, -.000
 2 set screws at long end of shaft.

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

Key: Me.HP = Mech. Input Power (HP) Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.) Th.HP Fan = Thermal Input Power - Fan

Hand of Assembly Floor Mounted Units

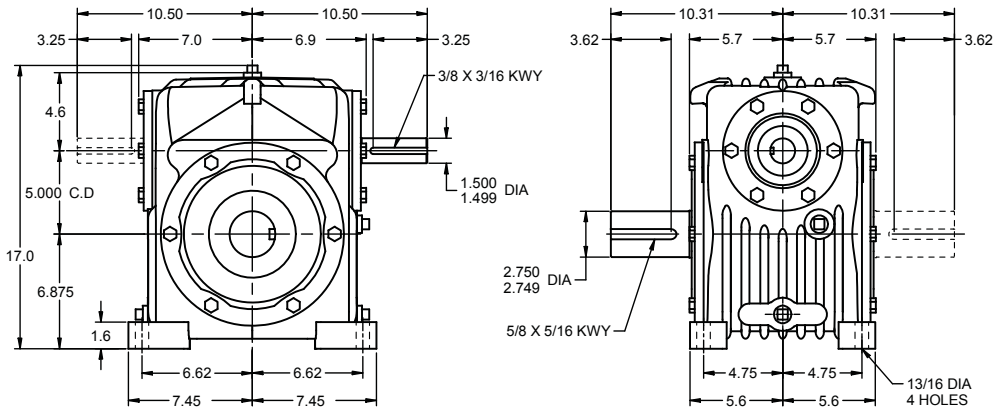
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



Cone Drive Single Reduction Units - 5.000" C.D.

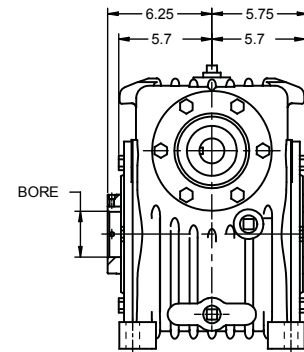
Size 50 Solid Shaft

Model HO Worm Over Gear net wt. 290 lbs



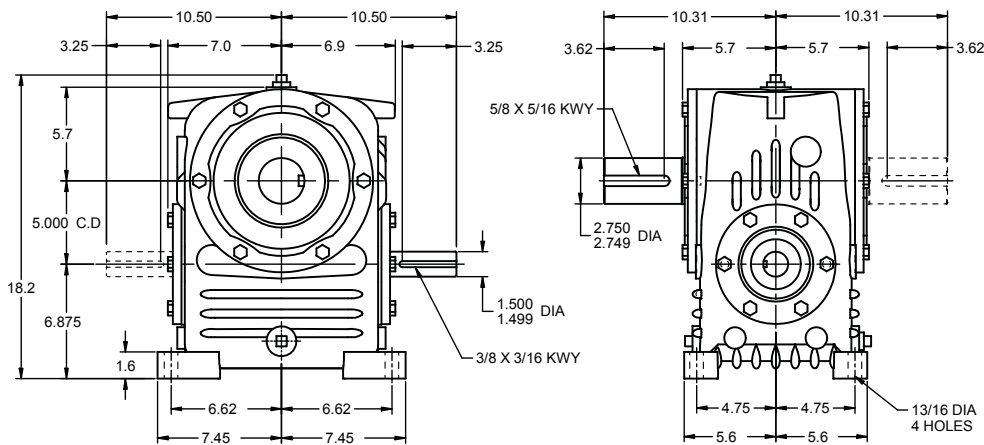
Hollow Shaft

SHO net wt. 302 lbs

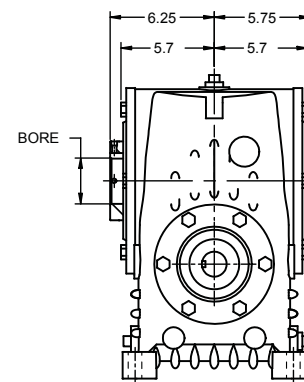


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model HU Worm Under Gear net wt. 305 lbs

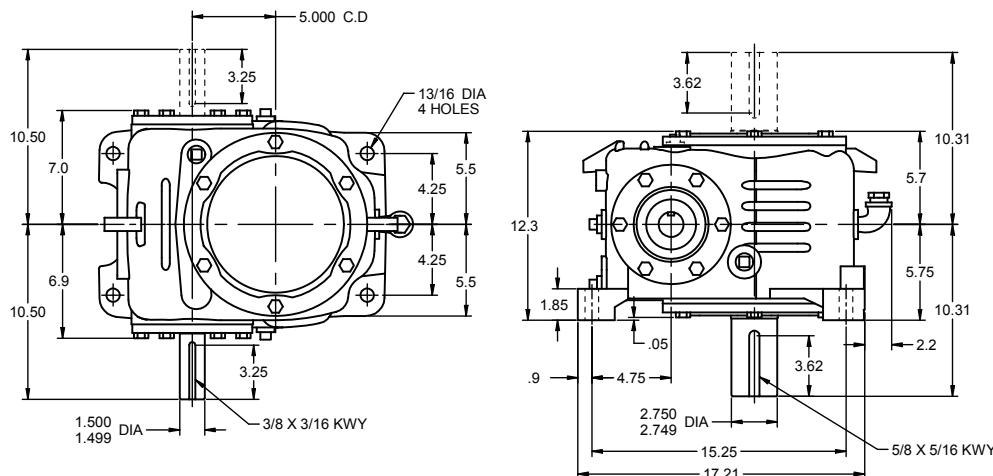


SHU net wt. 317 lbs

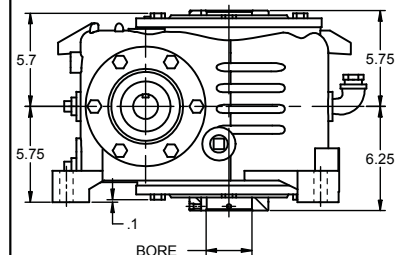


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model HV Worm Horizontal Gear Shaft Vertical net wt. 295 lbs



SHV net wt. 307 lbs



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

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 5.000" C.D. Size 50

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR									
		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	8.72	15.91	22.03	33.96	37.97	42.19	48.26	58.80
	Th.HP	4.41	6.67	8.59	12.24	13.70	14.77	15.96	17.55
	Th.HP Fan	8.72	13.35	17.18	24.48	27.39	29.54	31.91	35.10
	Efficiency	92	93	94	94	94	95	95	95
	O.T.	25,270	23,305	21,750	17,340	15,620	14,515	12,560	10,060
10	Me.HP	6.02	11.02	15.43	24.48	27.54	30.43	35.34	43.33
	Th.HP	3.93	5.64	7.24	9.93	10.87	11.60	12.47	13.31
	Th.HP Fan	6.02	11.02	14.48	19.86	21.75	23.21	24.95	26.62
	Efficiency	86	88	89	90	90	92	93	93
	O.T.	32,630	30,555	28,850	23,930	21,690	20,275	18,010	14,510
15	Me.HP	4.87	8.93	12.51	20.00	22.53	24.86	28.85	35.33
	Th.HP	3.25	5.95	6.08	8.22	8.81	9.31	9.85	10.52
	Th.HP Fan	4.87	8.93	12.16	16.44	17.61	18.63	19.69	21.03
	Efficiency	82	84	85	88	89	90	91	91
	O.T.	37,735	35,450	33,500	28,675	26,325	24,310	21,575	17,365
20	Me.HP	3.72	6.83	9.58	15.36	17.27	19.06	22.19	27.33
	Th.HP	2.48	4.36	5.37	7.29	7.72	8.11	8.43	8.80
	Th.HP Fan	3.72	6.83	9.58	14.59	15.45	16.22	16.87	17.60
	Efficiency	78	80	81	86	86	87	87	88
	O.T.	36,590	34,415	32,600	28,695	25,995	23,740	21,155	17,315
25	Me.HP	3.00	5.51	7.73	12.40	13.98	15.43	17.93	22.09
	Th.HP	2.00	3.67	4.63	6.33	6.60	6.82	7.02	7.29
	Th.HP Fan	3.00	5.51	7.73	12.40	13.21	13.64	14.04	14.59
	Efficiency	74	78	80	84	84	86	87	87
	O.T.	35,005	33,840	32,480	28,280	25,690	24,030	21,365	17,300
30	Me.HP	2.52	4.62	6.49	10.41	11.74	12.97	15.07	18.51
	Th.HP	1.68	3.08	4.01	5.46	5.75	5.97	6.13	6.31
	Th.HP Fan	2.52	4.62	6.49	10.41	11.50	11.95	12.25	12.62
	Efficiency	71	73	75	78	81	82	83	83
	O.T.	33,765	31,840	30,670	26,460	24,965	23,100	20,555	16,595
40	Me.HP	1.89	3.48	4.88	7.83	8.83	9.75	11.33	13.92
	Th.HP	1.26	2.32	3.25	5.22	4.90	5.14	5.32	5.50
	Th.HP Fan	1.89	3.48	4.88	7.83	8.83	9.75	10.64	11.00
	Efficiency	64	66	70	75	76	78	79	79
	O.T.	30,520	28,915	28,700	25,515	23,485	22,035	19,615	15,835
50	Me.HP	1.52	2.79	3.92	6.28	7.10	7.82	9.12	11.17
	Th.HP	1.01	1.86	2.61	3.84	4.06	4.27	4.57	4.89
	Th.HP Fan	1.52	2.79	3.92	6.28	7.10	7.82	9.12	9.78
	Efficiency	57	63	67	73	74	75	76	76
	O.T.	27,255	27,675	27,545	24,900	22,985	21,240	18,980	15,275
60	Me.HP	1.27	2.33	3.27	5.25	5.92	6.53	7.61	9.32
	Th.HP	0.84	1.55	2.18	3.39	3.58	3.79	4.13	4.40
	Th.HP Fan	1.27	2.33	3.27	5.25	5.92	6.53	7.61	8.80
	Efficiency	56	62	64	69	71	72	73	73
	O.T.	26,810	27,270	26,345	23,620	22,085	20,420	18,255	14,695
70	Me.HP	1.09	2.00	2.80	4.51	5.08	5.60	6.53	8.00
	Th.HP	0.72	1.33	1.87	3.00	3.36	3.51	3.81	3.91
	Th.HP Fan	1.09	2.00	2.80	4.51	5.08	5.60	6.53	7.81
	Efficiency	55	61	63	68	70	71	72	72
	O.T.	26,365	26,870	25,970	23,310	21,800	20,165	18,030	14,510

Key: Me.HP = Mech. Input Power (HP) Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.) Th.HP Fan = Thermal Input Power - Fan

Notes:

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, filler, and drains are provided.

For cap and carrier dimensions not shown, see mounting section.

Steeple bearing arrangements follow in this section.

All units can be motorized. Motor adapter to be located at extension end of input shaft.

Fan cooling can be supplied with water cooling coils in oil sump.

Units can be supplied with water cooling coils in oil sump. Set screw end of hollow shaft is considered the extension end.

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction. For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

BORE INCHES	GEARSHAFT 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

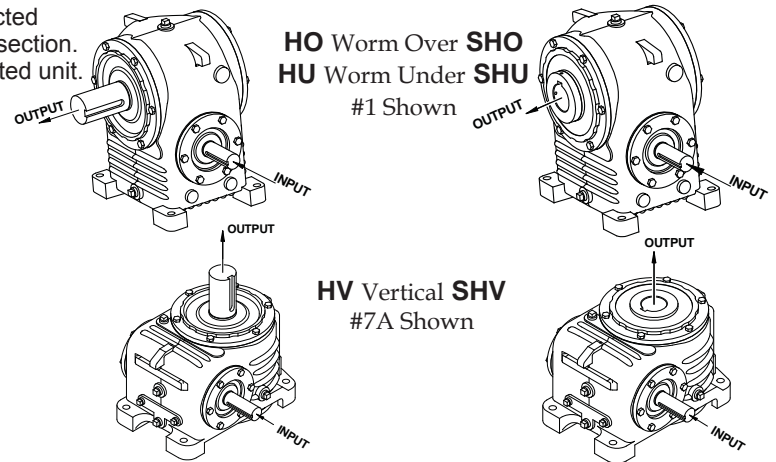
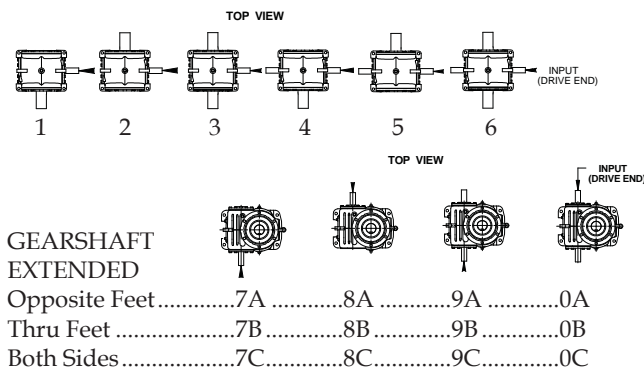
Bore Tolerance: +.003, -.000

2 set screws at long end of shaft.

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

Hand of Assembly Floor Mounted Units

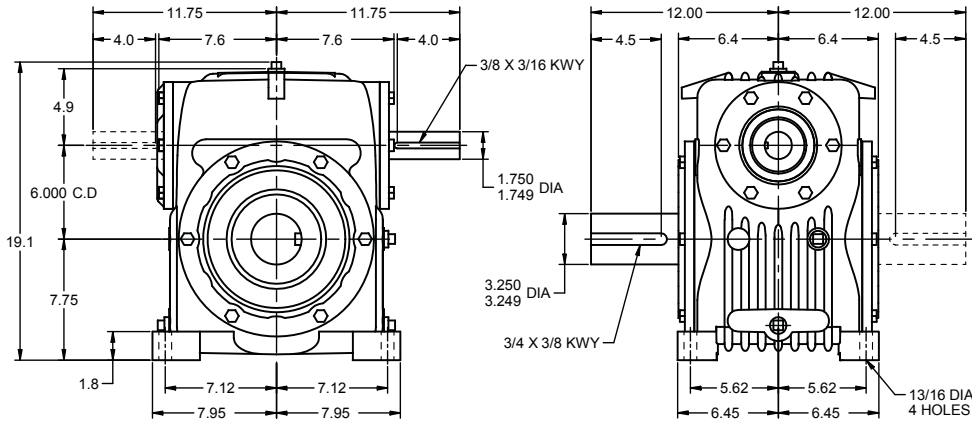
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



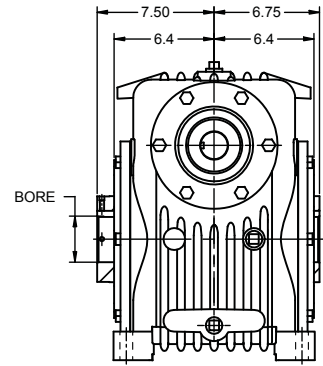
Cone Drive Single Reduction Units - 6.000" C.D.

Size 60 Solid Shaft

Model HO Worm Over Gear net wt. 388 lbs

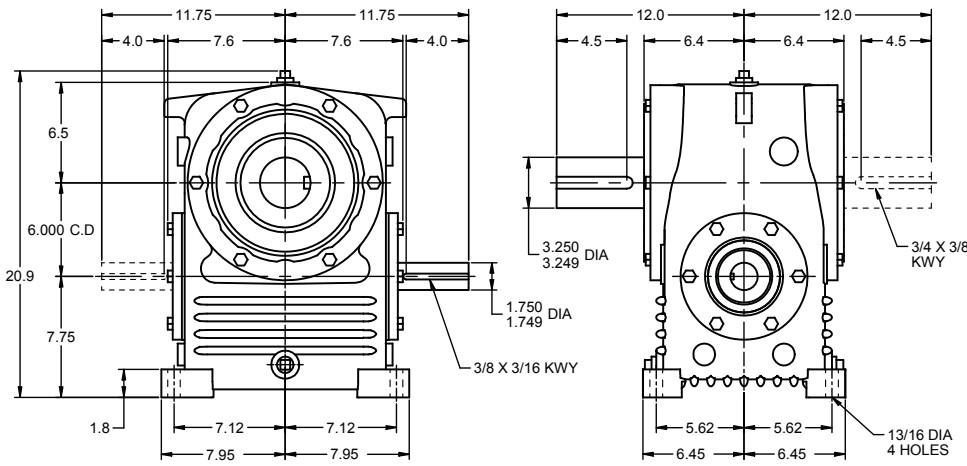


Hollow Shaft
SHO net wt. 403 lbs

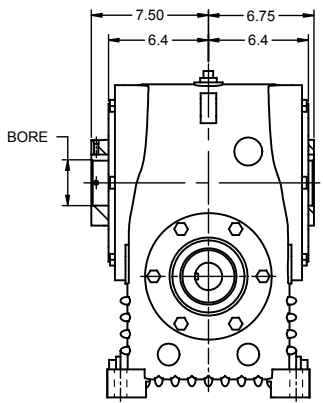


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HU Worm Under Gear net wt. 396 lbs

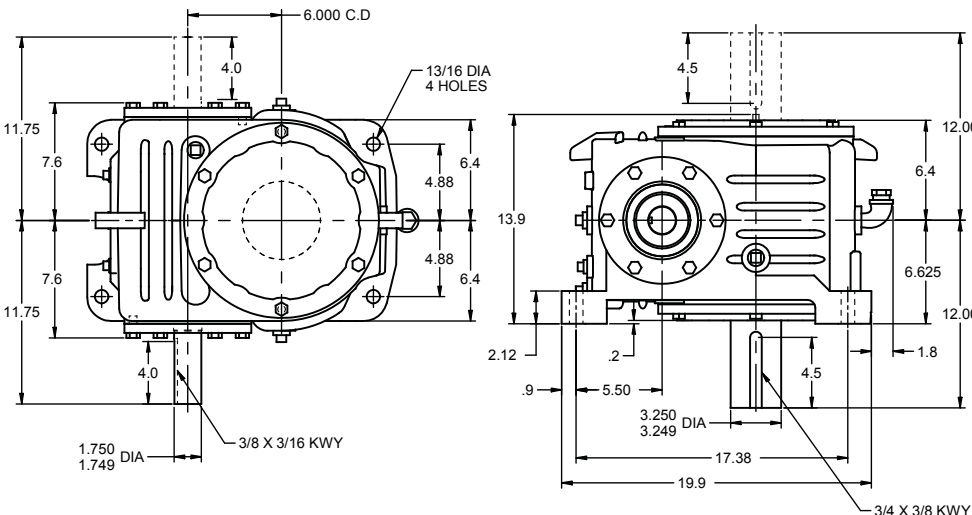


SHU net wt. 411 lbs

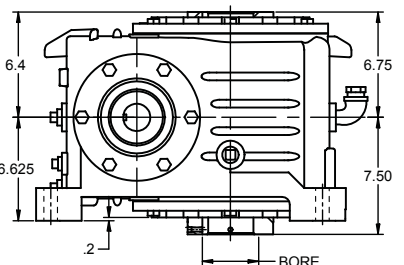


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HV Worm Horizontal Gear Shaft Vertical net wt. 418 lbs



SHV net wt. 433 lbs



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

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 6.000" C.D.

Size 60

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR									
		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	13.31	24.04	32.79	48.28	54.33	59.84	68.35	79.85
	Th.HP	6.28	9.51	12.24	17.44	19.51	21.04	22.73	25.01
	Th.HP Fan	12.57	19.02	24.48	34.87	39.03	42.09	45.47	50.01
	Efficiency	92	93	94	94	94	95	95	95
	O.T.	38,575	35,215	32,365	24,650	22,345	20,585	17,785	13,660
10	Me.HP	9.23	16.82	23.23	35.27	39.53	43.82	50.62	60.62
	Th.HP	5.59	8.04	10.32	14.15	15.49	16.53	17.77	18.97
	Th.HP Fan	9.23	16.07	20.64	28.30	30.99	33.07	35.54	37.93
	Efficiency	86	88	89	90	90	92	93	93
	O.T.	49,995	46,630	43,425	34,480	31,135	29,195	25,790	20,295
15	Me.HP	7.46	13.63	18.87	28.85	32.30	35.75	41.22	49.71
	Th.HP	4.97	7.00	8.66	11.71	12.54	13.27	14.03	14.98
	Th.HP Fan	7.46	13.63	17.32	23.42	25.09	26.54	28.06	29.96
	Efficiency	82	84	85	88	89	90	91	91
	O.T.	57,820	54,100	50,535	41,370	37,735	34,945	30,825	24,430
20	Me.HP	5.72	10.44	14.46	22.17	24.76	27.57	31.62	38.50
	Th.HP	3.82	6.21	7.65	10.39	11.00	11.55	12.02	12.54
	Th.HP Fan	5.72	10.44	14.46	20.78	22.01	23.11	24.03	25.08
	Efficiency	78	80	81	86	86	86	87	88
	O.T.	56,250	52,615	49,185	41,415	37,270	34,345	30,145	24,395
25	Me.HP	4.61	8.42	11.67	17.94	20.05	22.27	25.55	31.01
	Th.HP	3.07	5.28	6.60	9.02	9.41	9.72	10.00	10.39
	Th.HP Fan	4.61	8.42	11.67	17.94	18.82	19.44	20.00	20.78
	Efficiency	74	78	80	84	84	86	87	87
	O.T.	53,725	51,740	49,000	40,925	36,850	34,680	30,450	24,280
30	Me.HP	3.87	7.06	9.77	15.03	16.85	18.66	21.41	26.09
	Th.HP	2.58	4.40	5.72	7.77	8.20	8.51	8.73	8.99
	Th.HP Fan	3.87	7.06	9.77	15.03	16.39	17.02	17.46	17.98
	Efficiency	71	73	75	78	81	82	83	83
	O.T.	51,910	48,685	46,185	38,205	35,825	33,245	29,210	23,385
40	Me.HP	2.91	5.31	7.35	11.33	12.67	14.07	16.10	19.62
	Th.HP	1.93	3.54	4.76	7.55	6.98	7.32	7.58	7.84
	Th.HP Fan	2.91	5.31	7.35	11.33	12.67	14.07	15.16	15.67
	Efficiency	64	66	70	75	76	78	79	79
	O.T.	46,920	44,135	43,225	36,925	33,700	31,800	27,875	22,320
50	Me.HP	2.33	4.26	5.90	9.09	10.16	11.29	12.92	15.74
	Th.HP	1.55	2.83	3.90	5.47	5.79	6.09	6.50	6.97
	Th.HP Fan	2.33	4.26	5.90	9.09	10.16	11.29	12.92	13.93
	Efficiency	57	63	67	73	74	75	76	76
	O.T.	41,900	42,245	41,480	36,035	32,905	30,660	26,890	21,530
60	Me.HP	1.95	3.55	4.92	7.58	8.48	9.42	10.78	13.13
	Th.HP	1.29	2.36	3.28	4.83	5.10	5.40	5.89	6.27
	Th.HP Fan	1.95	3.55	4.92	7.58	8.48	9.42	10.78	12.54
	Efficiency	56	62	64	69	71	72	73	73
	O.T.	41,220	41,630	39,675	34,105	31,610	29,470	25,860	20,705
70	Me.HP	1.67	3.05	4.22	6.51	7.28	8.09	9.25	11.27
	Th.HP	1.10	2.03	2.81	4.31	4.79	5.00	5.43	5.56
	Th.HP Fan	1.67	3.05	4.22	6.51	7.28	8.09	9.25	11.13
	Efficiency	55	61	63	68	70	71	72	72
	O.T.	40,535	41,010	39,110	33,655	31,205	29,100	25,540	20,450

Notes:

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, filler, and drains are provided.
 For cap and carrier dimensions not shown, see mounting section.
 Steeple bearing arrangements follow in this section.
 All units can be motorized. Motor adapter to be located at extension end of input shaft.
 Fan cooling can be supplied with water cooling coils in oil sump.
 Units can be supplied with water cooling coils in oil sump.
 Set screw end of hollow shaft is considered the extension end.
 All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.
 For additional available ratios and left-hand helix gearing Contact Cone Drive.
 Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

BORE INCHES	GEARSHAFT 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

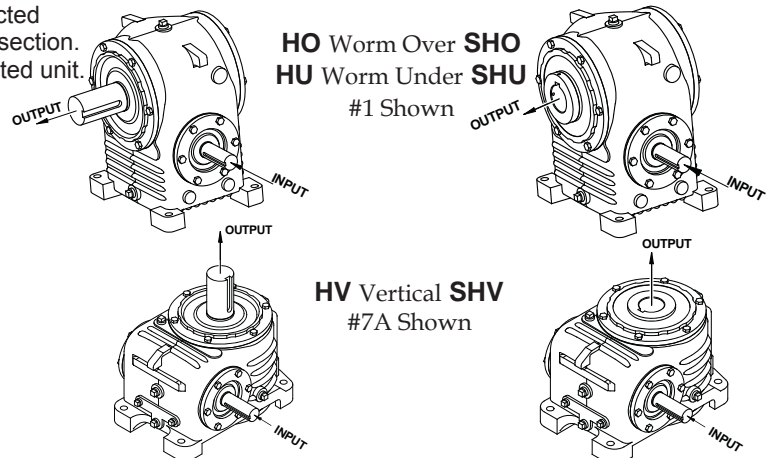
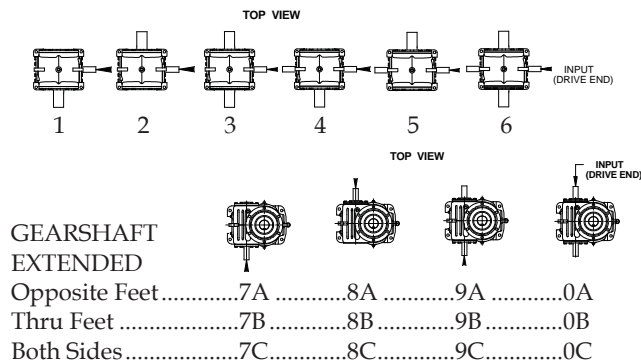
Special hollow gear shaft bore sizes are available at additional cost.
 *AGMA Standard
 Bore Tolerance: +.003, -.000
 2 set screws at long end of shaft.

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

Key: Me.HP = Mech. Input Power (HP) Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.) Th.HP Fan = Thermal Input Power - Fan

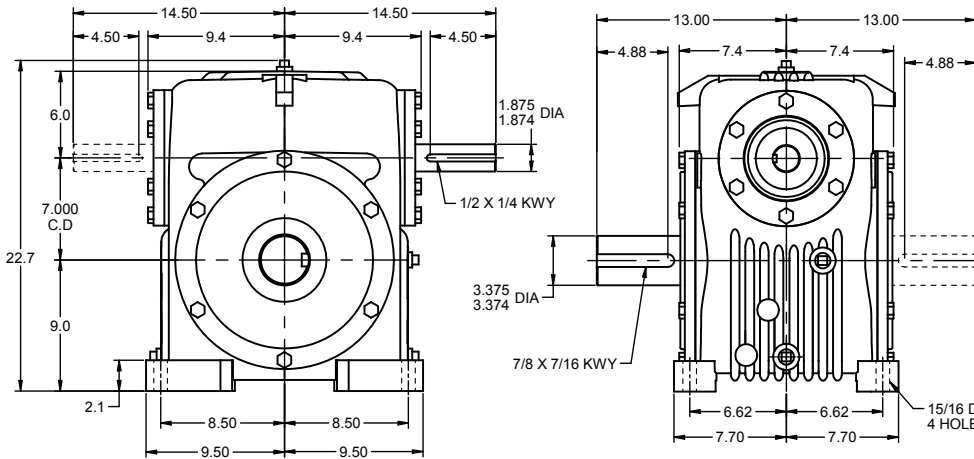
Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



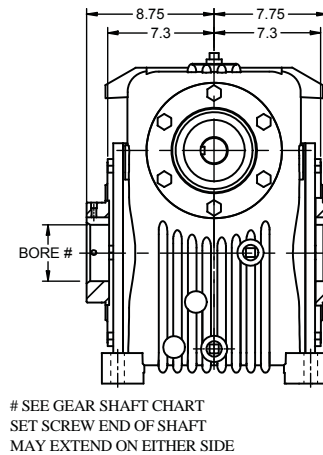
Cone Drive Single Reduction Units - 7.000" C.D. Size 70 Solid Shaft

Model HO Worm Over Gear net wt. 535 lbs

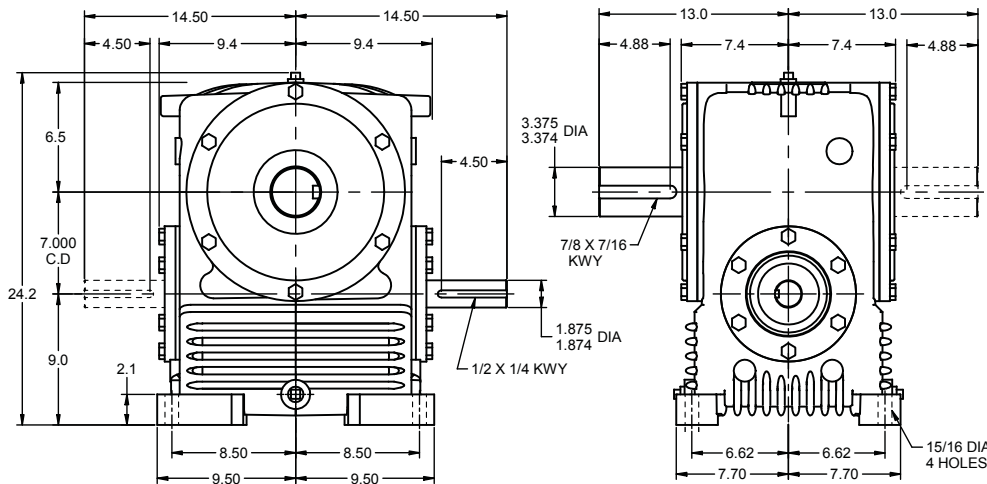


Hollow Shaft

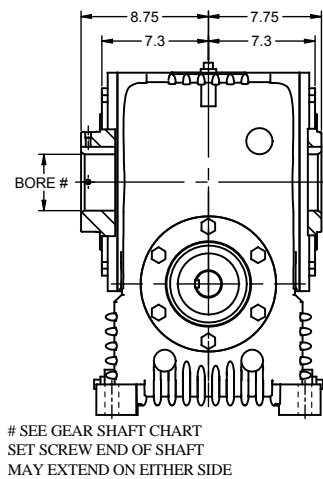
SHO net wt. 560 lbs



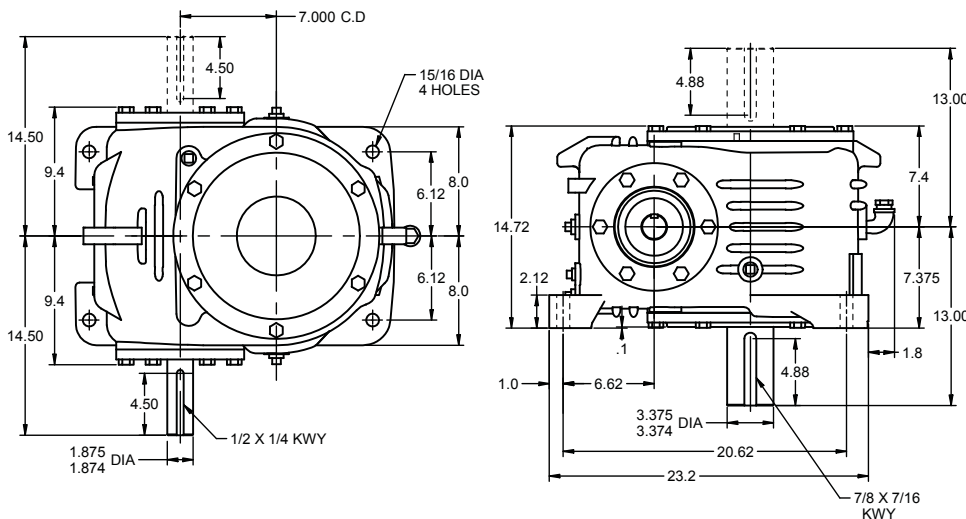
Model HU Worm Under Gear net wt. 605 lbs



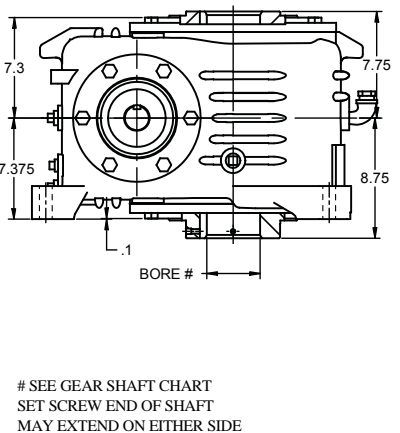
SHU net wt. 630 lbs



Model HV Worm Horizontal Gear Shaft Vertical net wt. 600 lbs



SHV net wt. 625 lbs



INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 7.000" C.D.

Size 70

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	20.90	37.29	49.72	72.10	80.50	88.26	100.23	115.65
	Th.HP	8.49	12.85	16.54	23.55	26.36	28.43	30.71	33.78
	Th.HP Fan	16.97	25.69	33.07	47.11	52.73	56.86	61.42	67.56
	Efficiency	92	93	94	94	94	95	95	95
	O.T.	60,560	54,625	49,080	36,810	33,110	30,360	26,085	19,780
10	Me.HP	14.56	26.41	36.12	53.50	60.30	66.52	76.21	88.78
	Th.HP	7.56	10.86	13.94	19.11	20.93	22.34	24.01	25.62
	Th.HP Fan	14.56	21.71	27.88	38.23	41.86	44.67	48.01	51.24
	Efficiency	86	88	89	90	90	92	93	93
	O.T.	78,910	73,210	67,510	52,305	47,485	44,320	38,830	29,725
15	Me.HP	11.80	21.44	29.41	43.92	49.45	54.64	62.55	73.96
	Th.HP	7.87	9.46	11.70	15.82	16.95	17.93	18.95	20.24
	Th.HP Fan	11.80	18.92	23.40	31.64	33.89	35.85	37.91	40.48
	Efficiency	82	84	85	88	89	90	91	91
	O.T.	91,425	85,110	78,740	62,970	57,760	53,415	46,775	36,345
20	Me.HP	9.03	16.42	22.57	33.75	38.02	41.77	47.99	56.80
	Th.HP	5.17	8.39	10.34	14.04	14.87	15.61	16.23	16.94
	Th.HP Fan	9.03	16.42	20.68	28.08	29.73	31.22	32.47	33.88
	Efficiency	78	80	81	86	86	87	87	88
	O.T.	88,795	82,780	76,790	63,055	57,220	52,030	45,750	35,995
25	Me.HP	7.28	13.25	18.18	27.32	30.71	33.85	38.93	45.96
	Th.HP	4.16	7.13	8.91	12.19	12.71	13.13	13.51	14.04
	Th.HP Fan	7.28	13.25	17.82	24.38	25.42	26.26	27.03	28.08
	Efficiency	74	78	80	84	84	86	87	87
	O.T.	84,815	81,405	76,360	62,325	56,425	52,710	46,390	35,990
30	Me.HP	6.10	11.10	15.26	22.89	25.73	28.36	32.62	38.68
	Th.HP	4.06	5.94	7.72	10.50	11.07	11.50	11.79	12.14
	Th.HP Fan	6.10	11.10	15.26	21.00	22.14	23.00	23.59	24.29
	Efficiency	71	73	75	78	81	82	83	83
	O.T.	81,815	76,600	72,115	58,185	54,705	50,530	44,495	34,680
40	Me.HP	4.58	8.36	11.48	17.21	19.35	21.33	24.62	29.09
	Th.HP	2.61	4.78	6.42	11.38	9.43	9.88	10.24	10.59
	Th.HP Fan	4.58	8.36	11.48	17.21	18.87	19.77	20.47	21.18
	Efficiency	64	66	70	75	76	78	79	79
	O.T.	73,945	69,565	67,485	56,095	51,465	48,195	42,615	33,095
50	Me.HP	3.68	6.71	9.21	13.84	15.52	17.11	19.75	23.34
	Th.HP	2.09	3.83	5.26	7.39	7.82	8.22	8.79	9.41
	Th.HP Fan	3.68	6.71	9.21	13.84	15.52	16.45	17.58	18.82
	Efficiency	57	63	67	73	74	75	76	76
	O.T.	66,035	66,580	64,770	54,885	50,245	46,465	41,110	31,925
60	Me.HP	3.07	5.60	7.68	11.55	12.95	14.28	16.48	19.56
	Th.HP	1.75	3.18	4.45	6.52	6.89	7.29	7.96	8.47
	Th.HP Fan	3.07	5.60	7.68	11.55	12.95	14.28	15.91	16.94
	Efficiency	56	62	64	69	71	72	73	73
	O.T.	64,960	65,610	61,950	51,950	48,275	44,665	39,540	30,845
70	Me.HP	2.63	4.81	6.59	9.91	11.11	12.25	14.14	16.79
	Th.HP	1.49	2.74	3.79	5.82	6.47	6.76	7.34	7.52
	Th.HP Fan	2.63	4.81	6.59	9.91	11.11	12.25	14.14	15.04
	Efficiency	55	61	63	68	70	71	72	72
	O.T.	63,885	64,640	61,065	51,265	47,655	44,105	39,050	30,465

Notes:

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, filler, and drains are provided.

For cap and carrier dimensions not shown, see mounting section.

Steeple bearing arrangements follow in this section.

Fan cooling can be supplied with water cooling coils in oil sump.

Units can be supplied with water cooling coils in oil sump.

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

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

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

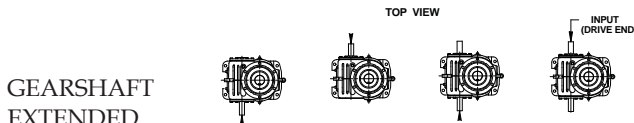
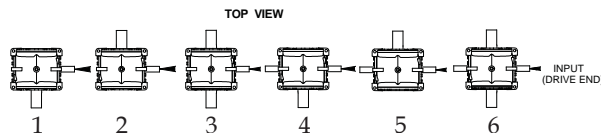
2 set screws at long end of shaft.

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

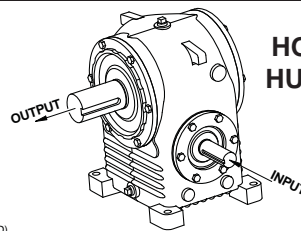
Key: Me.HP = Mech. Input Power (HP) Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.) Th.HP Fan = Thermal Input Power - Fan

Hand of Assembly Floor Mounted Units

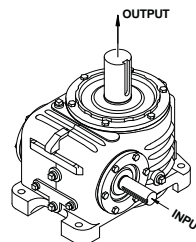
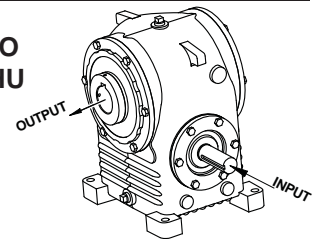
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



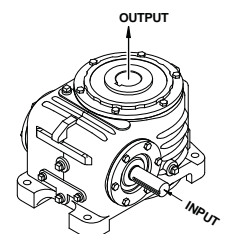
GEARSHAFT EXTENDED
 Opposite Feet7A8A9A0A
 Thru Feet7B8B9B0B
 Both Sides7C8C9C0C



HO Worm Over SHO
HU Worm Under SHU
 #1 Shown



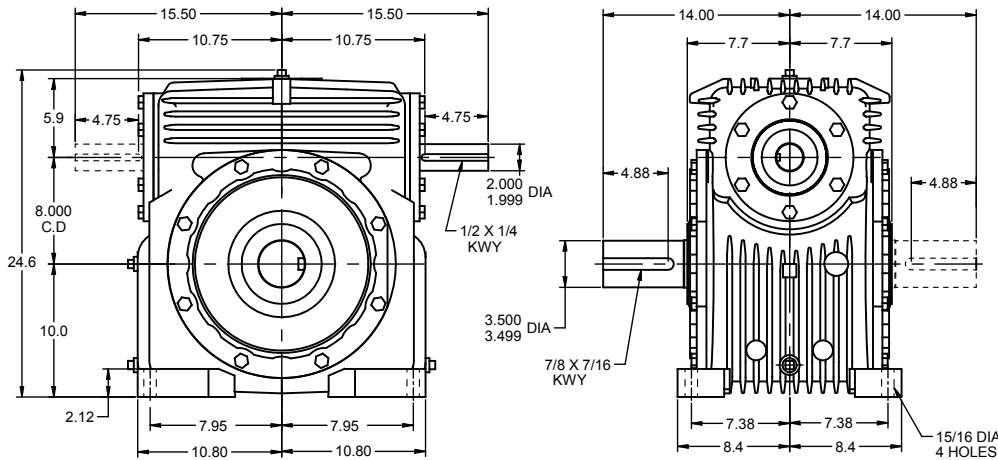
HV Vertical SHV
 #7A Shown



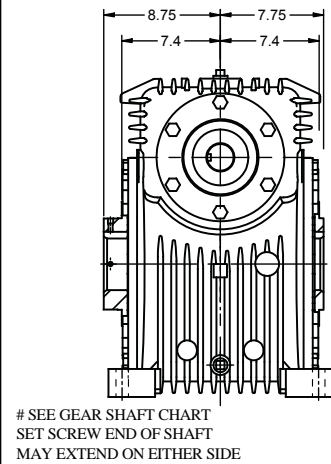
Cone Drive Single Reduction Units - 8.000" C.D.

Size 80 Solid Shaft

Model HO Worm Over Gear net wt. 690 lbs

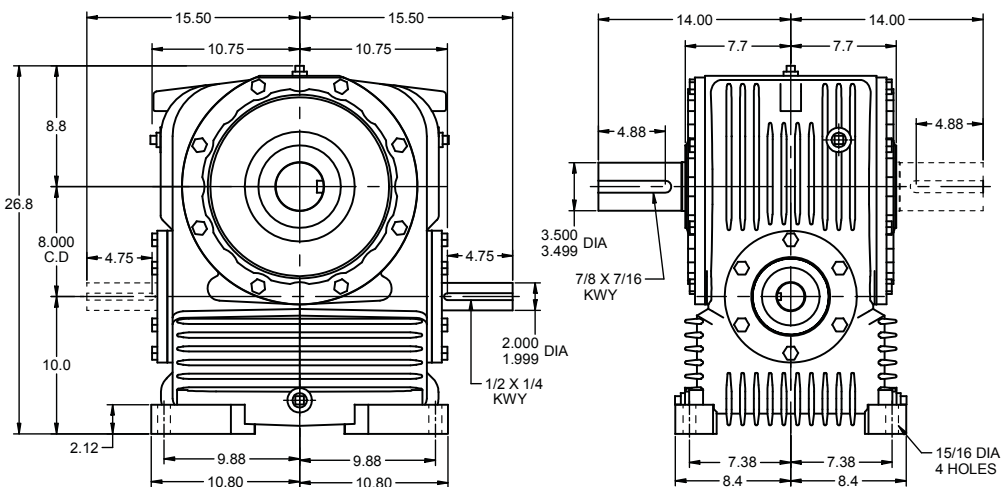


Hollow Shaft
SHO net wt. 720 lbs

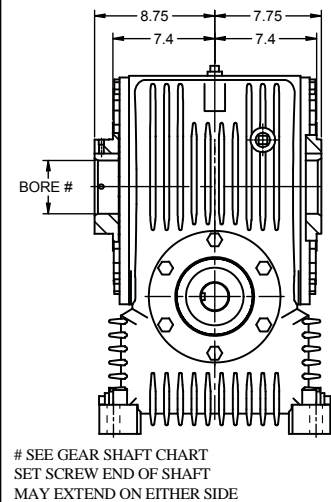


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HU Worm Under Gear net wt. 880 lbs

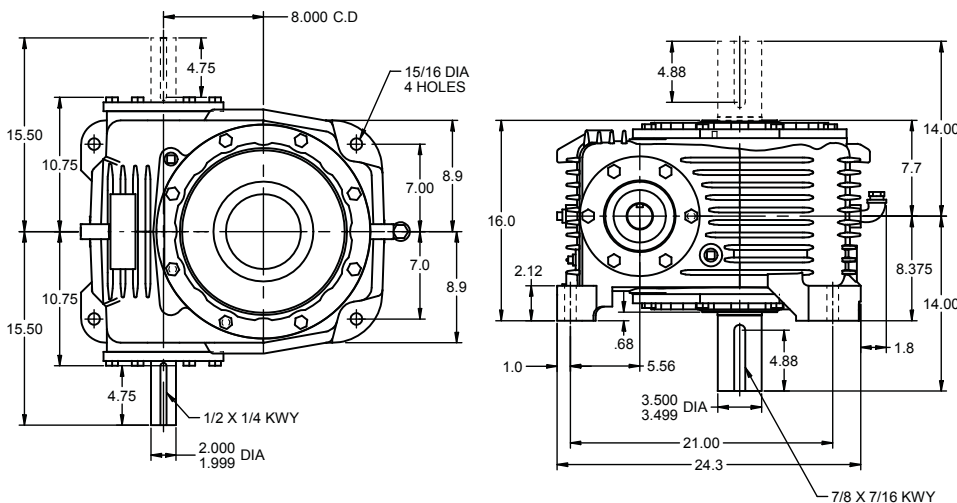


SHU net wt. 910 lbs

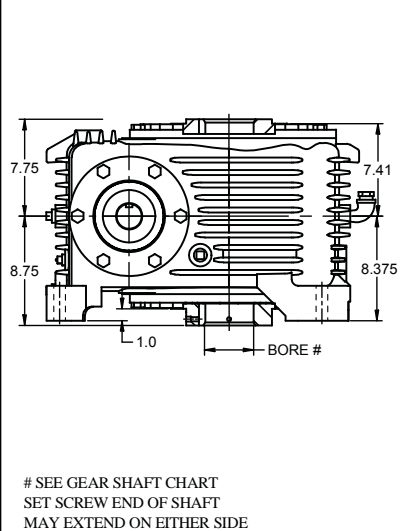


SEE GEAR SHAFT CHART
 SET SCREW END OF SHAFT
 MAY EXTEND ON EITHER SIDE

Model HV Worm Horizontal Gear Shaft Vertical net wt. 725 lbs



SHV net wt. 755 lbs



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

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 8.000" C.D.

Size 80

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

		Worm RPM								
Ratio to 1		100	200	300	580	720	870	1150	1750	
5	Me.HP	31.03	54.63	71.62	102.29	114.21	124.91	139.75	161.85	
	Th.HP	12.90	19.52	25.13	35.79	40.06	43.20	46.67	51.33	
	Th.HP Fan	25.79	39.04	50.25	71.59	80.12	86.40	93.33	102.67	
	Efficiency	92	93	94	94	94	95	95	95	
	O.T.	89,915	80,025	70,695	52,225	46,970	42,965	36,370	27,680	
10	Me.HP	21.74	39.24	53.17	77.78	87.61	96.01	110.52	128.53	
	Th.HP	11.48	16.50	21.18	29.05	31.81	33.94	36.48	38.93	
	Th.HP Fan	21.74	33.00	42.36	58.09	63.61	67.88	72.96	77.87	
	Efficiency	86	88	89	90	90	92	93	93	
	O.T.	117,795	108,785	99,370	76,040	68,995	63,960	56,310	43,035	
15	Me.HP	17.64	31.93	43.47	64.06	72.10	79.69	91.11	105.66	
	Th.HP	11.76	14.37	17.78	24.04	25.75	27.24	28.80	30.76	
	Th.HP Fan	17.64	28.74	35.56	48.07	51.50	54.48	57.60	61.51	
	Efficiency	82	84	85	88	89	90	91	91	
	O.T.	136,710	126,715	116,395	91,850	84,225	77,905	68,135	51,925	
20	Me.HP	13.49	24.45	33.37	49.37	55.45	61.32	69.91	81.57	
	Th.HP	7.85	12.75	15.71	21.33	22.59	23.72	24.67	25.74	
	Th.HP Fan	13.49	24.45	31.42	42.67	45.18	47.44	49.33	51.48	
	Efficiency	78	80	81	86	86	86	87	88	
	O.T.	132,560	123,245	113,525	92,230	83,445	76,370	66,645	51,685	
25	Me.HP	10.88	19.70	26.93	39.97	44.92	49.38	56.73	66.01	
	Th.HP	6.33	10.84	13.54	18.53	19.31	19.95	20.53	21.33	
	Th.HP Fan	10.88	19.70	26.93	37.05	38.62	39.91	41.07	42.67	
	Efficiency	74	78	80	84	84	86	87	87	
	O.T.	126,825	120,980	113,115	91,175	82,540	76,890	67,595	51,690	
30	Me.HP	9.12	16.53	22.61	33.49	37.74	41.64	47.70	55.57	
	Th.HP	6.08	9.03	11.73	15.96	16.82	17.47	17.92	18.45	
	Th.HP Fan	9.12	16.53	22.61	31.91	33.65	34.95	35.84	36.91	
	Efficiency	71	73	75	78	81	82	83	83	
	O.T.	122,340	114,045	106,830	85,120	80,255	74,180	65,075	49,820	
40	Me.HP	6.86	12.43	17.00	25.25	28.38	31.31	35.87	41.99	
	Th.HP	3.97	7.26	9.76	16.83	14.34	15.02	15.56	16.09	
	Th.HP Fan	6.86	12.43	17.00	25.25	28.38	30.04	31.11	32.18	
	Efficiency	64	66	70	75	76	78	79	79	
	O.T.	110,575	103,385	99,975	82,285	75,500	70,750	62,105	47,775	
50	Me.HP	5.50	9.97	13.64	20.25	22.77	25.12	28.78	33.68	
	Th.HP	3.18	5.81	8.00	11.24	11.89	12.50	13.35	14.30	
	Th.HP Fan	5.50	9.97	13.64	20.25	22.77	24.99	26.71	28.60	
	Efficiency	57	63	67	73	74	75	76	76	
	O.T.	98,745	98,950	95,950	80,305	73,710	68,210	59,905	46,080	
60	Me.HP	4.59	8.32	11.38	16.90	19.00	20.96	24.01	28.11	
	Th.HP	2.66	4.84	6.76	9.91	10.47	11.08	12.09	12.87	
	Th.HP Fan	4.59	8.32	11.38	16.90	19.00	20.96	24.01	25.74	
	Efficiency	56	62	64	69	71	72	73	73	
	O.T.	97,140	97,510	91,775	76,005	70,820	65,570	57,615	44,320	
70	Me.HP	3.94	7.14	9.77	14.51	16.31	17.99	20.61	24.12	
	Th.HP	2.27	4.17	5.76	8.84	9.83	10.27	11.15	11.42	
	Th.HP Fan	3.94	7.14	9.77	14.51	16.31	17.99	20.61	22.85	
	Efficiency	55	61	63	68	70	71	72	72	
	O.T.	95,535	96,065	90,460	75,000	69,915	64,745	56,905	43,775	

Notes:

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, filler, and drains are provided.
 For cap and carrier dimensions not shown, see mounting section.
 Steeple bearing arrangements follow in this section.
 Fan cooling can be supplied with water cooling coils in oil sump.
 Units can be supplied with water cooling coils in oil sump.
 Set screw end of hollow shaft is considered the extension end.
 All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.
 For additional available ratios and left-hand helix gearing Contact Cone Drive.
 Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

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.

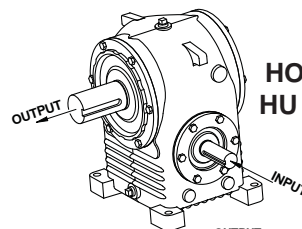
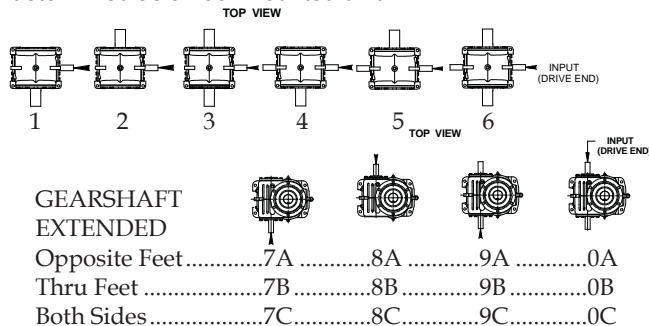
CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Key:

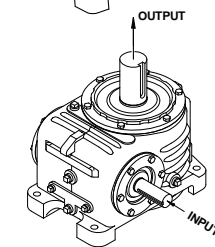
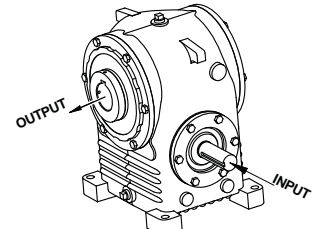
Me.HP = Mech. Input Power (HP)
 Th.HP = Thermal Input Power - No Fan
 O.T. = Output Torque (In. Lb.)
 Th.HP Fan = Thermal Input Power - Fan

Hand of Assembly Floor Mounted Units

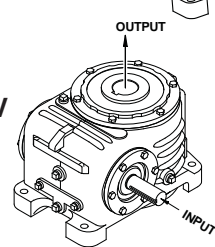
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



HO Worm Over SHO
 HU Worm Under SHU
 #1 Shown

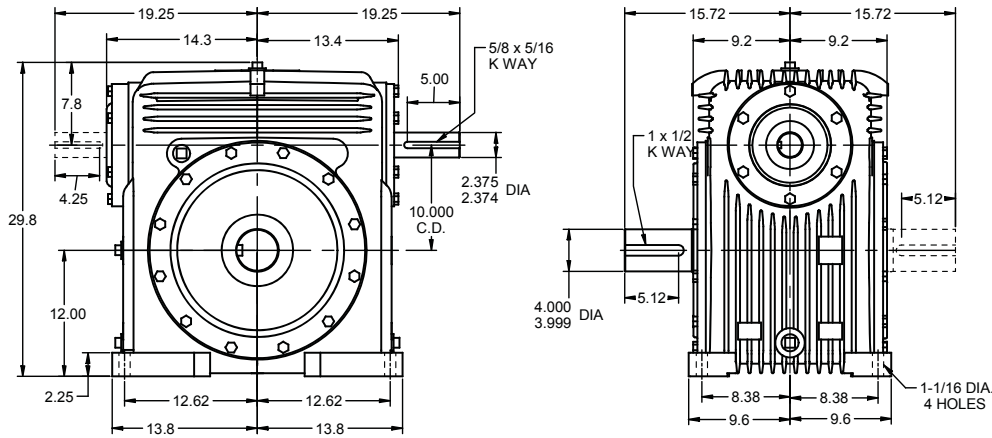


HV Vertical SHV
 #7A Shown



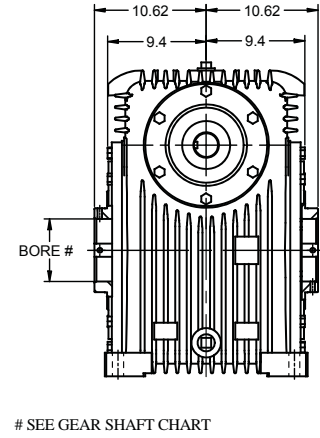
Cone Drive Single Reduction Units - 10.000" C.D.
Size 100 Solid Shaft

Model HO Worm Over Gear net wt. 1360 lbs.



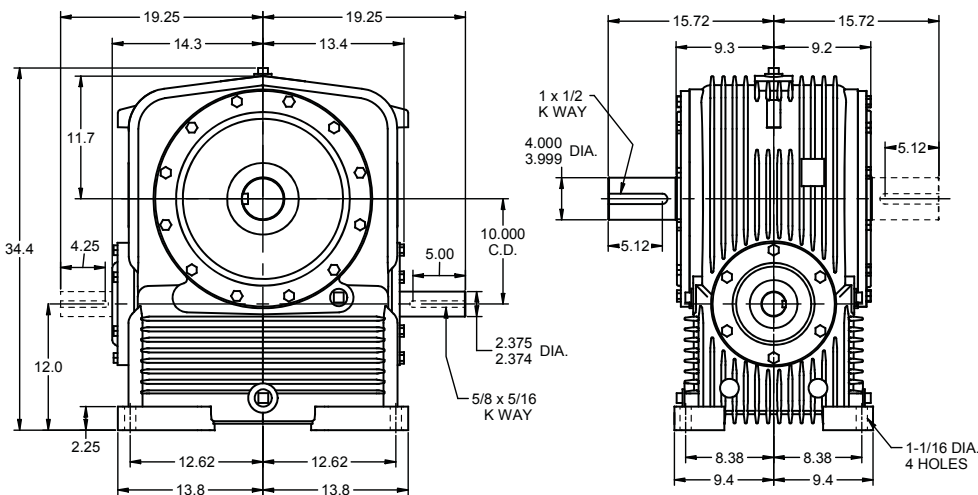
Hollow Shaft

SHO net wt. 1435 lbs.

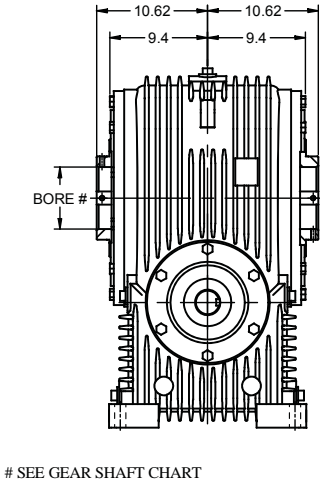


SEE GEAR SHAFT CHART

Model HU Worm Under Gear net wt. 1680 lbs.

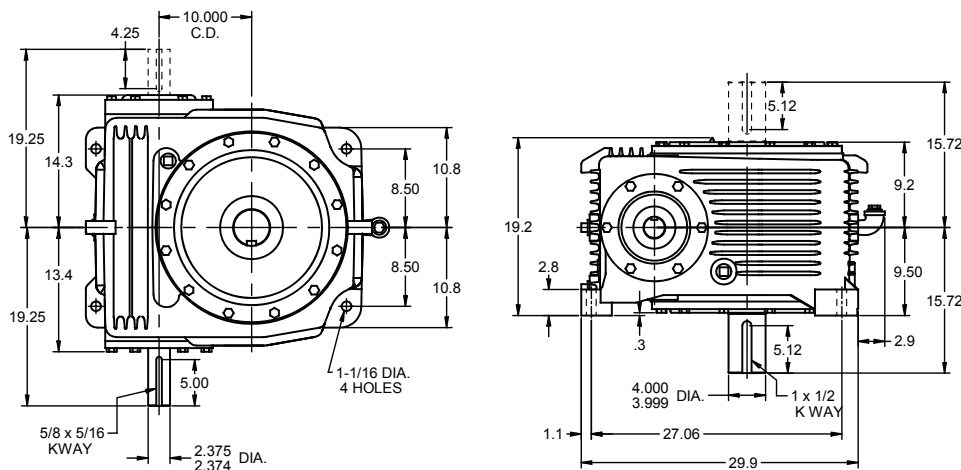


SHU net wt. 1755 lbs.

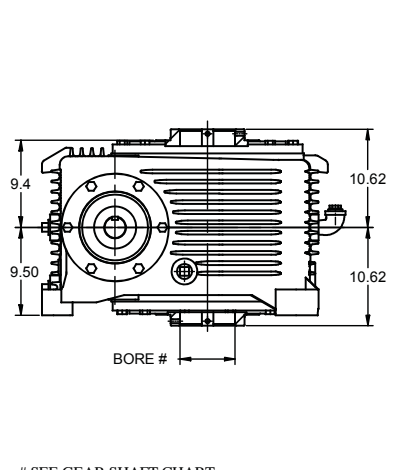


SEE GEAR SHAFT CHART

Model HV Worm Horizontal Gear Shaft Vertical net wt. 1550 lbs.



SHV net wt. 1625 lbs.



SEE GEAR SHAFT CHART

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 10.000" C.D. Size 100

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR									
		Worm RPM							
Ratio to 1		100	200	300	580	720	870	1150	1750
5	Me.HP	58.05	98.65	125.54	177.07	196.63	213.20	231.67	272.58
	Th.HP	23.59	36.51	48.34	68.86	77.07	86.19	93.10	102.42
	Th.HP Fan	47.17	73.02	96.68	137.72	154.14	172.38	186.21	204.83
	Efficiency	94	95	96	96	97	97	97	97
	O.T.	171,875	147,605	126,550	92,320	83,450	74,880	61,555	47,595
10	Me.HP	40.93	72.26	95.47	136.70	152.42	166.98	188.26	216.10
	Th.HP	19.47	28.48	36.98	51.36	58.17	62.07	68.23	72.82
	Th.HP Fan	38.94	56.97	73.95	102.73	116.34	124.14	136.64	145.64
	Efficiency	88	90	91	92	94	94	95	95
	O.T.	226,900	204,850	182,450	136,605	125,365	113,665	97,980	73,910
15	Me.HP	33.10	58.81	77.98	112.16	125.72	137.56	155.67	179.16
	Th.HP	16.13	24.04	29.93	41.50	44.96	48.17	51.71	55.22
	Th.HP Fan	32.26	48.07	59.85	83.00	89.91	96.35	103.43	110.45
	Efficiency	84	86	87	90	92	92	93	93
	O.T.	262,765	238,975	213,695	164,470	151,805	137,465	118,965	89,975
20	Me.HP	25.35	45.14	60.01	86.25	96.74	106.30	119.51	138.49
	Th.HP	12.77	20.90	25.86	36.18	38.31	40.22	42.18	44.44
	Th.HP Fan	25.35	41.80	51.71	72.36	76.61	80.44	84.36	88.89
	Efficiency	80	82	83	88	88	88	89	90
	O.T.	255,535	233,170	209,185	164,895	148,985	135,485	116,545	89,745
25	Me.HP	20.45	36.42	48.44	69.88	77.92	85.62	97.06	111.55
	Th.HP	10.17	17.63	22.19	30.98	32.30	33.84	35.11	36.48
	Th.HP Fan	20.34	35.25	44.39	61.97	64.59	67.67	70.23	72.96
	Efficiency	76	80	82	86	88	88	89	89
	O.T.	244,825	229,470	208,520	163,190	149,995	136,400	118,315	89,350
30	Me.HP	17.14	30.52	40.58	58.54	65.28	71.73	81.32	93.46
	Th.HP	11.12	14.48	18.91	25.95	27.69	28.90	29.79	30.68
	Th.HP Fan	17.14	28.96	37.81	51.91	55.38	57.79	59.59	61.36
	Efficiency	73	75	77	80	84	84	85	85
	O.T.	236,430	216,285	196,860	152,620	143,950	130,905	113,605	85,795
40	Me.HP	12.89	22.95	30.52	44.03	49.09	53.94	61.16	70.28
	Th.HP	6.25	11.49	15.55	28.98	23.32	24.43	25.39	26.26
	Th.HP Fan	12.51	22.95	30.52	44.03	46.63	48.85	50.78	52.53
	Efficiency	66	68	72	77	80	80	81	81
	O.T.	214,330	196,625	184,570	147,290	137,460	125,005	108,550	81,975
50	Me.HP	10.34	18.44	24.59	35.52	39.63	43.42	49.46	56.68
	Th.HP	4.97	9.16	12.67	18.01	19.15	20.14	21.58	23.11
	Th.HP Fan	9.94	18.31	24.59	35.52	38.31	40.27	43.16	46.22
	Efficiency	59	65	69	75	77	77	78	78
	O.T.	192,110	188,815	178,120	144,685	133,520	121,070	105,680	79,585
60	Me.HP	8.63	15.39	20.51	29.64	33.07	36.24	41.27	47.30
	Th.HP	4.15	7.61	10.65	15.76	16.71	17.72	19.38	20.64
	Th.HP Fan	8.30	15.22	20.51	29.64	33.07	35.44	38.76	41.27
	Efficiency	58	64	66	71	74	74	75	75
	O.T.	189,105	186,160	170,605	137,150	128,485	116,505	101,750	76,630
70	Me.HP	7.40	13.21	17.61	25.44	28.39	31.10	35.42	40.60
	Th.HP	3.54	6.54	9.07	14.03	15.65	16.39	17.83	18.27
	Th.HP Fan	7.08	13.09	17.61	25.44	28.39	31.10	35.42	36.54
	Efficiency	57	63	65	70	73	73	74	74
	O.T.	186,095	183,495	168,245	135,400	126,920	115,085	100,530	75,705

Notes:

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, filler, and drains are provided.
 For cap and carrier dimensions not shown, see mounting section.
 Steeple bearing arrangements follow in this section.
 Fan cooling can be supplied with water cooling coils in oil sump.
 Units can be supplied with water cooling coils in oil sump.
 All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.
 For additional available ratios and left-hand helix gearing Contact Cone Drive.
 Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

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: +.003, -.000
 2 set screws at long end of shaft.

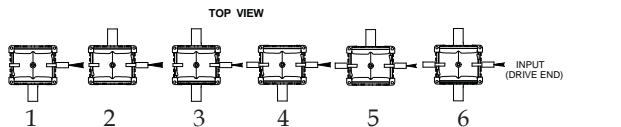
CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Key:

- Me.HP = Mech. Input Power (HP)
- Th.HP = Thermal Input Power - No Fan
- O.T. = Output Torque (In. Lb.)
- Th.HP Fan = Thermal Input Power - Fan

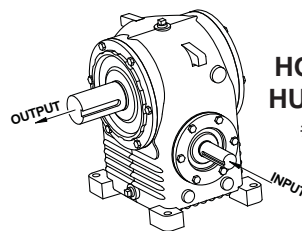
Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.

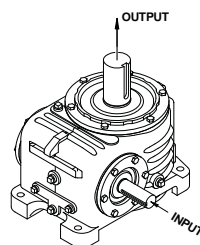
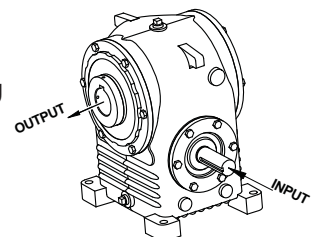


GEARSHAFT EXTENDED

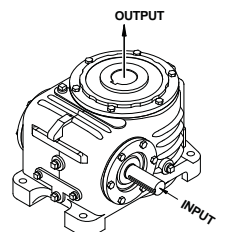
- Opposite Feet7A8A9A0A
- Thru Feet7B8B9B0B
- Both Sides7C8C9C0C



HO Worm Over
SHO Worm Under
HU Worm Under
SHU
 #3 Shown at right
 #1 Shown at left

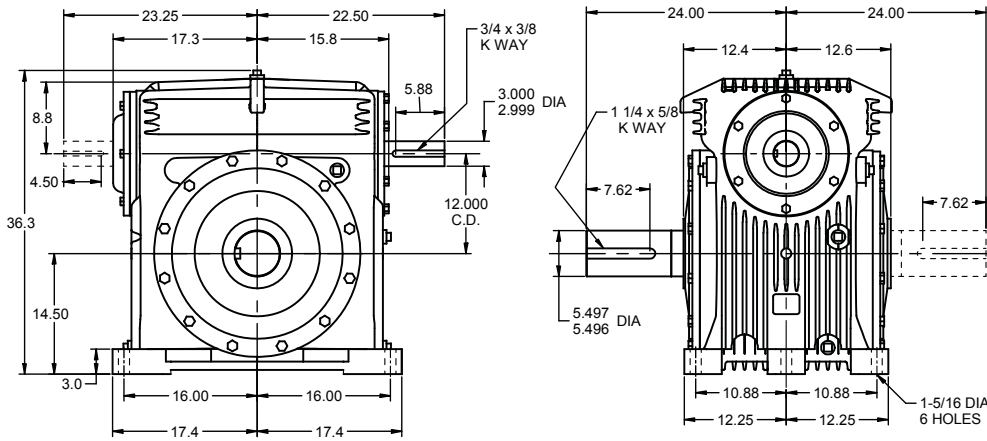


HV Vertical
SHV
 #7A Shown at left
 #7C Shown at right



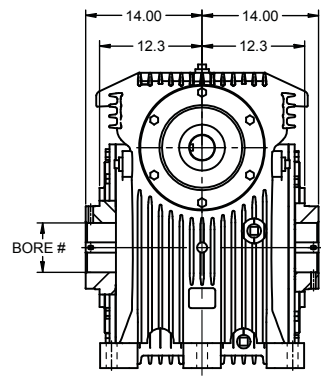
Cone Drive Single Reduction Units - 12.000" C.D. Size 120 Solid Shaft

Model HO Worm Over Gear net wt. 2635 lbs.



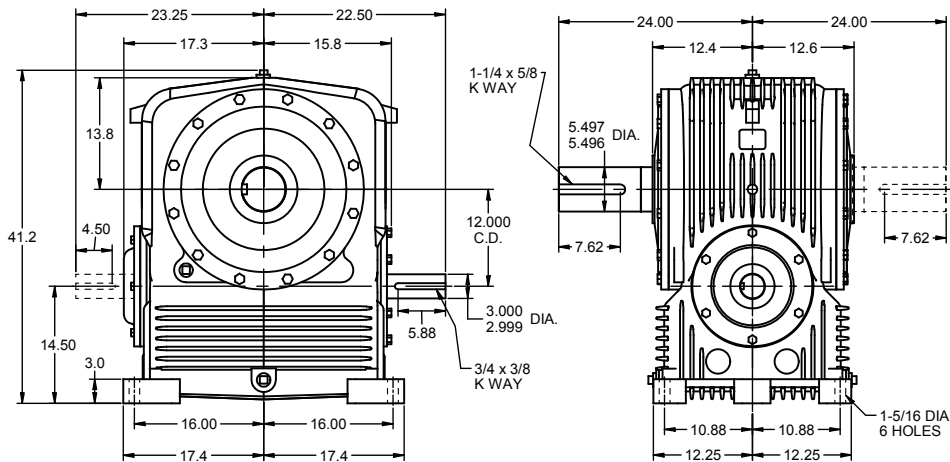
Hollow Shaft

SHO net wt. 2635 lbs.

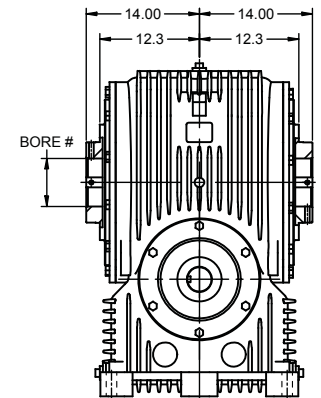


SEE GEAR SHAFT CHART

Model HU Worm Under Gear net wt. 2775 lbs.

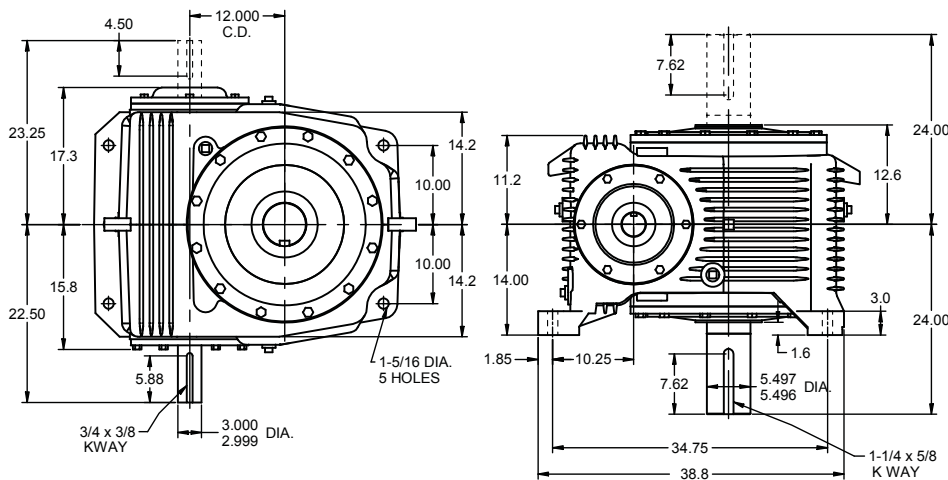


SHU net wt. 2775 lbs.

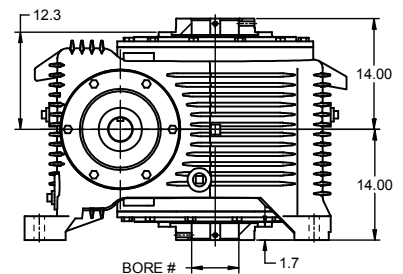


SEE GEAR SHAFT CHART

Model HV Worm Horizontal Gear Shaft Vertical net wt. 2995 lbs.



SHV net wt. 2995 lbs.



SEE GEAR SHAFT CHART

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 12.000" C.D.

Size 120

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR								
Worm RPM								
Ratio to 1		100	200	300	580	720	870	1150
5	Me.HP	97.66	160.36	199.46	279.03	307.46	322.92	360.54
	Th.HP	32.97	51.04	67.58	96.27	107.74	120.49	130.16
	Th.HP Fan	65.95	102.09	135.16	192.54	215.49	240.99	260.33
	Efficiency	94	95	96	96	97	97	97
	O.T.	289,165	239,940	201,055	145,480	130,480	113,415	95,795
10	Me.HP	69.42	119.50	153.17	218.02	240.67	263.11	287.25
	Th.HP	27.22	39.82	51.69	71.81	81.32	86.78	95.39
	Th.HP Fan	54.45	79.64	103.39	143.62	162.64	173.55	190.78
	Efficiency	88	90	91	92	94	94	95
	O.T.	384,890	338,790	292,715	217,870	197,955	179,100	149,495
15	Me.HP	56.15	97.31	125.83	179.16	198.25	217.23	237.20
	Th.HP	22.55	33.60	41.84	58.02	62.85	67.35	72.30
	Th.HP Fan	45.10	67.20	83.68	116.03	125.70	134.69	144.59
	Efficiency	84	86	87	90	92	92	93
	O.T.	445,755	395,415	344,835	262,720	239,385	217,080	181,275
20	Me.HP	43.08	74.85	96.65	137.85	152.65	167.39	183.95
	Th.HP	17.85	29.22	36.15	50.58	53.55	56.23	58.97
	Th.HP Fan	35.70	58.44	72.30	101.16	107.11	112.46	117.94
	Efficiency	80	82	83	88	88	88	89
	O.T.	434,270	386,660	336,930	263,530	235,085	213,335	179,375
25	Me.HP	34.70	60.41	78.21	111.03	123.39	135.35	148.86
	Th.HP	14.21	24.64	31.03	43.31	45.15	47.31	49.09
	Th.HP Fan	28.43	49.28	62.05	86.63	90.30	94.61	98.18
	Efficiency	76	80	82	86	88	88	89
	O.T.	415,355	380,555	336,700	259,285	237,520	215,625	181,445
30	Me.HP	29.07	50.61	65.68	93.02	103.38	113.40	125.30
	Th.HP	15.55	20.24	26.43	36.28	38.71	40.40	41.65
	Th.HP Fan	29.07	40.48	52.87	72.57	77.43	80.80	83.30
	Efficiency	73	75	77	80	84	84	85
	O.T.	401,110	358,695	318,615	242,500	227,950	206,930	175,040
40	Me.HP	21.90	38.06	49.39	70.40	78.29	85.61	94.23
	Th.HP	8.74	16.07	21.74	40.52	32.60	34.15	35.50
	Th.HP Fan	17.49	32.13	43.48	70.40	65.19	68.30	71.00
	Efficiency	66	68	72	77	80	80	81
	O.T.	364,260	326,090	298,725	235,515	219,220	198,380	167,250
50	Me.HP	17.57	30.59	39.71	56.47	62.80	68.67	75.58
	Th.HP	6.95	12.80	17.72	25.18	26.78	28.15	30.17
	Th.HP Fan	13.90	25.60	35.44	50.37	53.55	56.30	60.34
	Efficiency	59	65	69	75	77	77	78
	O.T.	326,495	313,165	287,710	230,010	211,565	191,450	161,490
60	Me.HP	14.66	25.53	33.14	47.12	52.40	57.30	63.07
	Th.HP	5.80	10.64	14.90	22.03	23.36	24.78	27.10
	Th.HP Fan	11.60	21.28	29.79	44.07	46.71	49.55	54.19
	Efficiency	58	64	66	71	74	74	75
	O.T.	321,390	308,755	275,570	218,035	203,590	184,235	155,485
70	Me.HP	12.58	21.91	28.44	40.44	44.98	49.18	54.13
	Th.HP	4.95	9.15	12.68	19.61	21.88	22.91	24.93
	Th.HP Fan	9.90	18.30	25.37	39.22	43.76	45.82	49.86
	Efficiency	57	63	65	70	73	73	74
	O.T.	316,270	304,340	271,755	215,250	201,110	181,990	153,615

Notes:

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.

For cap and carrier dimensions not shown, see mounting section.

Units can be supplied with water cooling coils.

All units can be motorized. Motor adapter to be located at extension end of input shaft.

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction. For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

STANDARD HOLLOW GEAR SHAFT BORES

BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
7.9375	120-S61-715	1 1/2 X 1/2

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

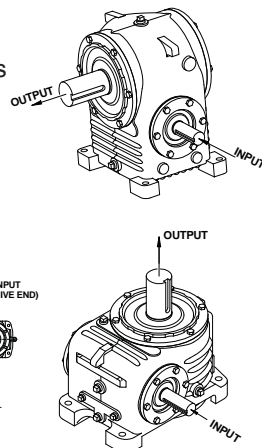
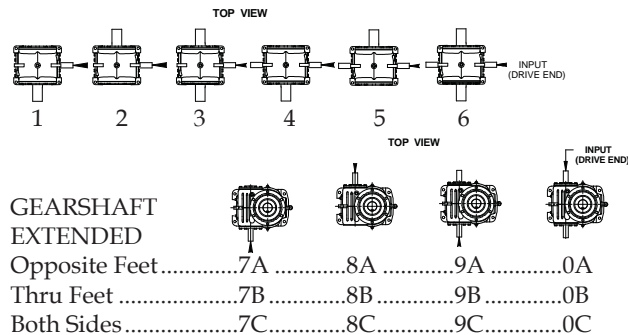
CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Key:

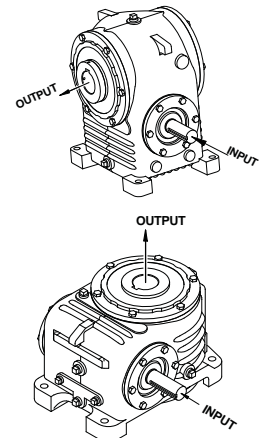
- Me.HP** = Mech. Input Power (HP)
- Th.HP** = Thermal Input Power - No Fan
- O.T.** = Output Torque (In. Lb.)
- Th.HP Fan** = Thermal Input Power - Fan

Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



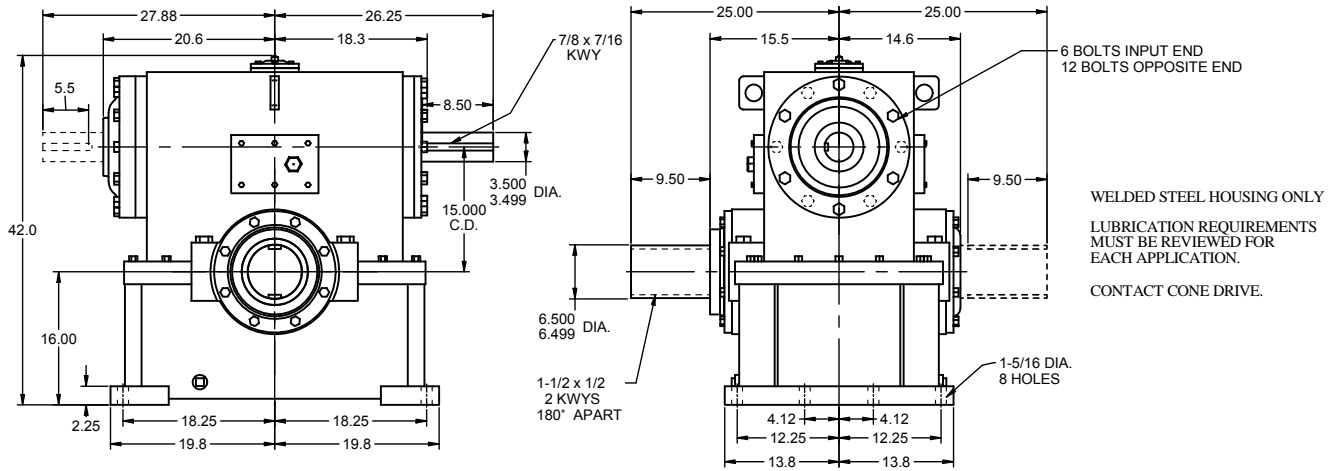
HO Worm Over **SHO**
HU Worm Under **SHU**
 #3 Shown at right
 #1 Shown at left



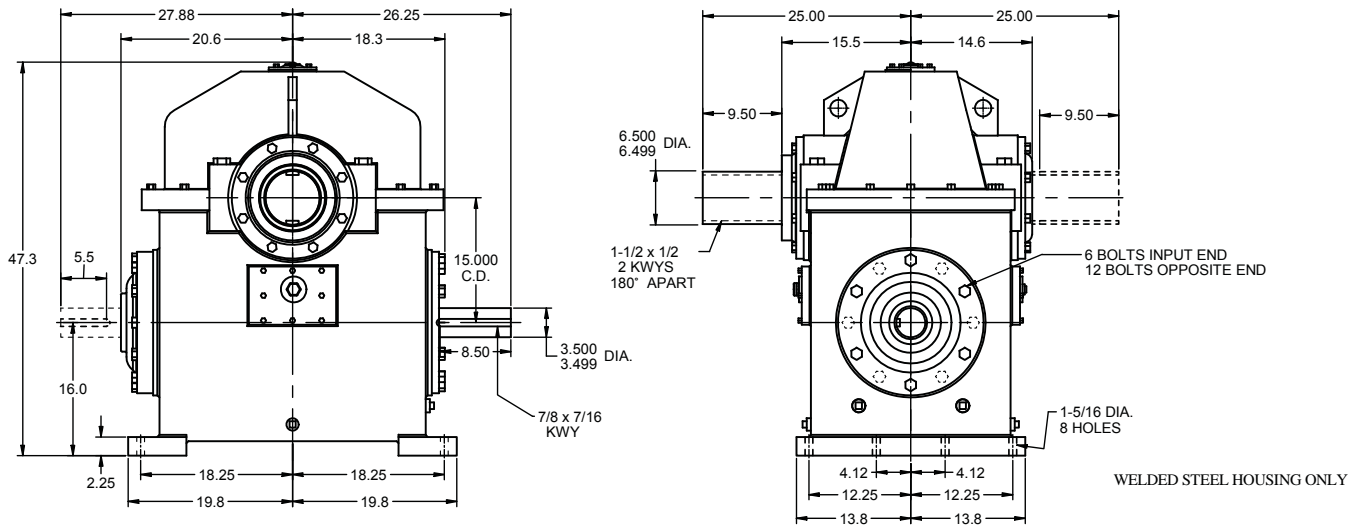
HV Vertical **SHV**
 #7A Shown at left
 #7C Shown at right

Cone Drive Single Reduction Units - 15.000" C.D. Size 150 Solid Shaft

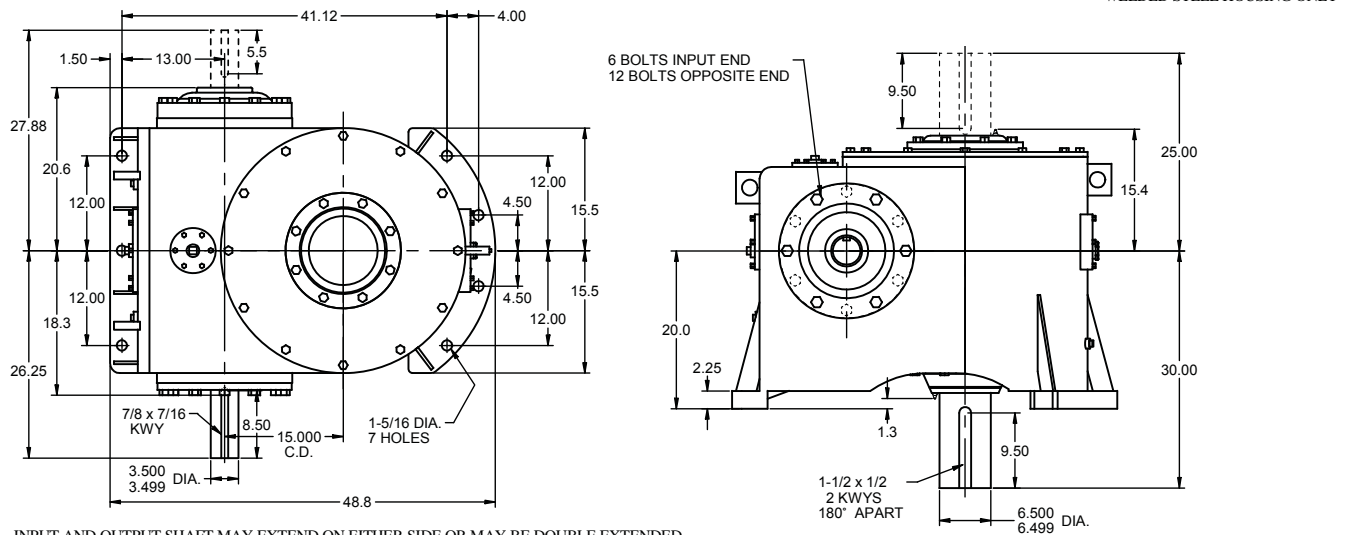
Model HO Worm Over Gear net wt. 4000 lbs



Model HU Worm Under Gear net wt. 4000 lbs



Model HV Worm Horizontal Gear Shaft Vertical net wt. 4000 lbs



INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 15.000" C.D. Size 150

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR								
Worm RPM								
Ratio to 1		100	200	300	580	720	870	1750
5	Me.HP	149.00	223.00	290.00	396.00	423.00	453.00	501.00
	Th.HP	23.60	35.50	45.60	65.50	73.00	78.50	85.40
	O.T.	442000	349000	291000	207000	178000	159000	133000
	C.P.	7351	9998	12333	15977	17778	18583	19323
10	Me.HP	99.30	166.00	208.00	293.00	322.00	343.00	378.00
	Th.HP	21.00	30.00	38.20	53.10	58.00	61.30	66.60
	O.T.	550000	469000	396000	294000	262000	232000	195000
	C.P.	41201	31629	30724	29523	29263	29572	29571
15	Me.HP	70.10	118.00	149.00	210.00	232.00	250.00	272.00
	Th.HP	18.30	26.20	32.50	43.80	47.20	49.50	52.40
	O.T.	557000	480000	407000	308000	277000	249000	208000
	C.P.	52000	52000	52000	46313	44395	43259	41720
20	Me.HP	53.70	90.50	114.00	161.00	178.00	191.00	210.00
	Th.HP	16.50	23.20	28.80	38.60	41.20	43.00	45.00
	O.T.	541000	467000	398000	307000	275000	245000	205000
	C.P.	52000	52000	52000	52000	52000	52000	50186
25	Me.HP	43.30	73.10	92.40	131.00	144.00	155.00	170.00
	Th.HP	13.85	19.80	24.70	33.70	35.20	36.30	37.40
	O.T.	522000	460000	400000	303000	274000	246000	207000
	C.P.	52000	52000	52000	52000	52000	52000	52000
30	Me.HP	36.30	61.30	77.50	110.00	121.00	130.00	143.00
	Th.HP	10.50	16.40	21.30	29.20	30.60	31.80	32.50
	O.T.	501000	436000	376000	286000	261000	238000	199000
	C.P.	52000	52000	52000	52000	52000	52000	52000
40	Me.HP	27.30	46.20	58.40	82.50	91.30	98.20	108.00
	Th.HP	8.60	13.80	17.90	24.70	26.20	27.30	28.40
	O.T.	455000	396000	354000	276000	251000	227000	191000
	C.P.	52000	52000	52000	52000	52000	52000	52000
50	Me.HP	21.90	37.10	46.90	66.30	73.40	78.90	86.40
	Th.HP	7.50	12.00	15.40	20.60	21.70	22.80	24.30
	O.T.	408000	380000	339000	271000	244000	219000	185000
	C.P.	52000	52000	52000	52000	52000	52000	52000
60	Me.HP	18.30	30.90	39.20	55.40	61.30	65.90	72.20
	Th.HP	6.00	10.50	13.10	18.00	19.10	20.20	22.10
	O.T.	401000	374000	327000	256000	233000	212000	178000
	C.P.	52000	52000	52000	52000	52000	52000	52000

Hollow Gear Shaft

Hollow shaft units are not standard but can be manufactured to suit your requirements. Contact Cone Drive.

Notes:

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.

For cap and carrier dimensions not shown, see mounting section.

Units can be supplied with water cooling coils in oil sump. All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

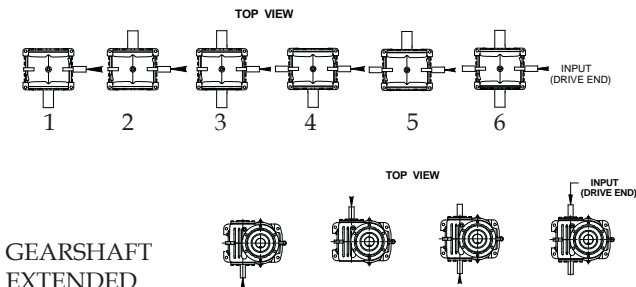
CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Key: Me.HP - Mechanical horsepower O.T. - Output torque in Lb. in.
 Th.HP - Thermal horsepower C.P. - Chain-pull in pounds.

Ratings to the right of heavy line require pressure lubrication.
 Contact Cone Drive.

Hand of Assembly Floor Mounted Units

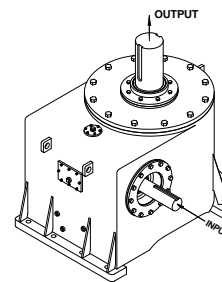
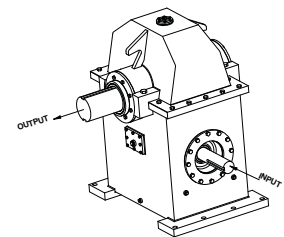
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



GEARSHAFT
 EXTENDED

Opposite Feet7A8A9A0A
 Thru Feet7B8B9B0B
 Both Sides7C8C9C0C

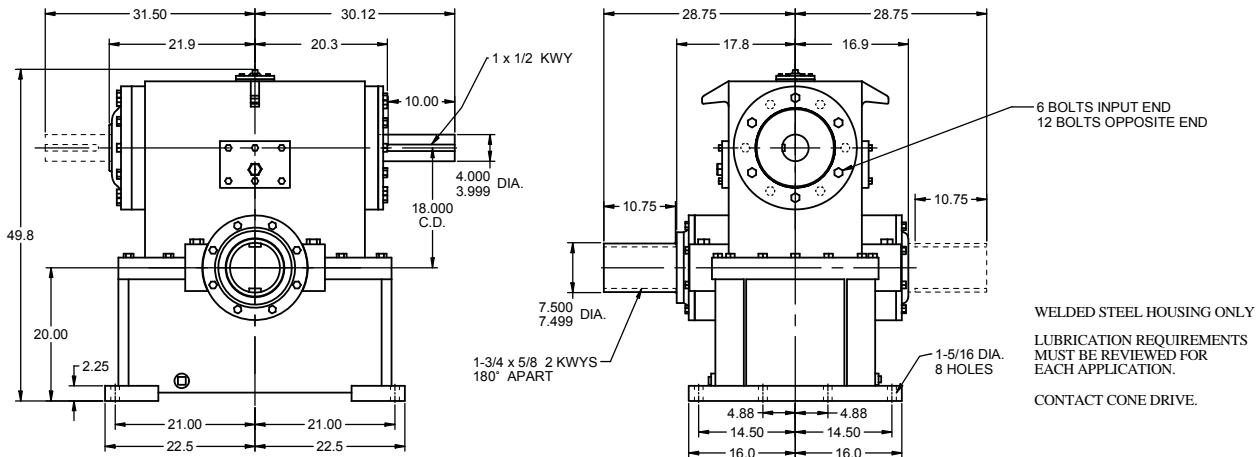
HO Worm Over
 HU Worm Under
 #1 Shown



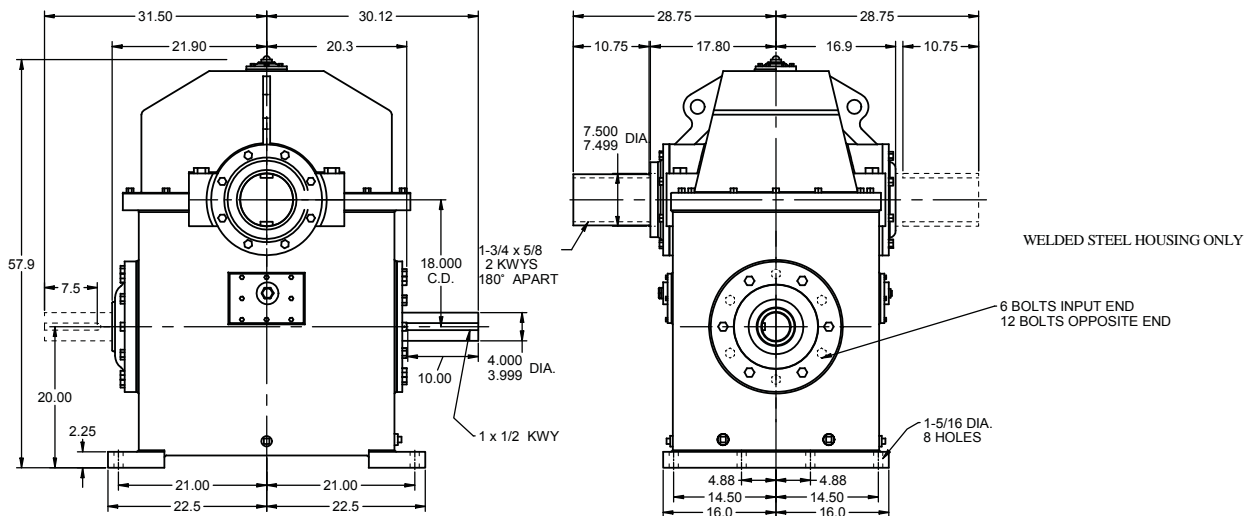
HV Vertical
 #7A Shown

Cone Drive Single Reduction Units - 18.000" C.D. Size 180 Solid Shaft

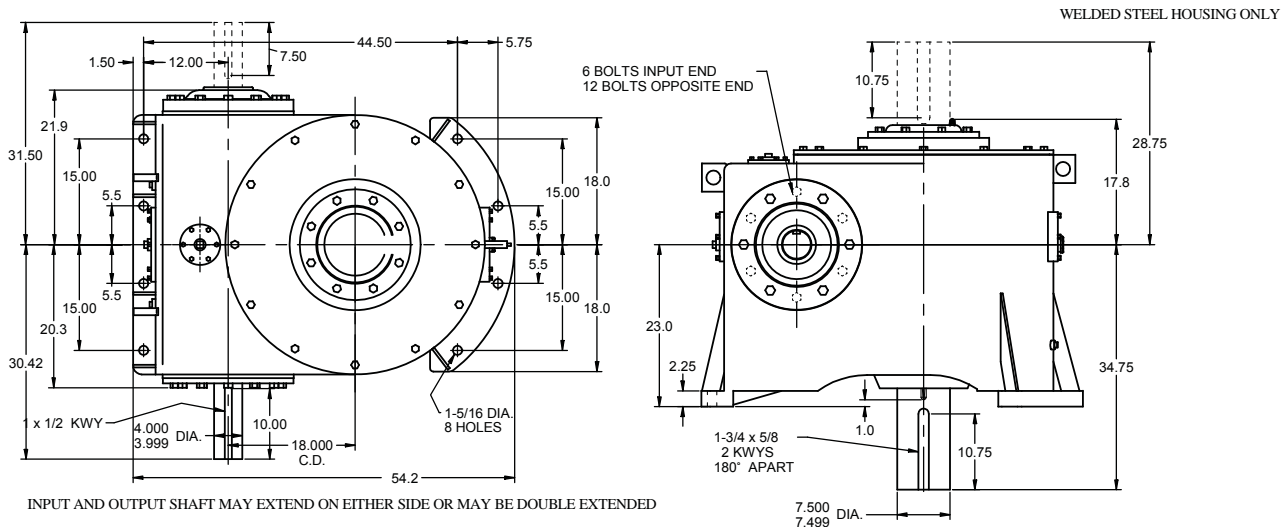
Model HO Worm Over Gear net wt. 5500 lbs



Model HU Worm Under Gear net wt. 5500 lbs



Model HV Worm Horizontal Gear Shaft Vertical net wt. 5500 lbs



Cone Drive Single Reduction Units - 18.000" C.D. Size 180

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR								
Worm RPM								
Ratio to 1		100	200	300	580	720	870	1150
5	Me.HP	236.00	356.00	440.00	577.00	624.00	669.00	733.00
	Th.HP	33.00	49.80	64.00	92.00	105.00	110.00	119.50
	O.T.	700000	532000	441000	301000	263000	234000	195000
	C.P.	7418	10371	12117	16716	17904	18532	19474
8	Me.HP	193.00	309.00	385.00	535.00	577.00	615.00	681.00
	Th.HP	30.84	45.30	57.75	81.50	92.10	96.20	103.85
	O.T.	878000	716000	600000	437000	381000	338000	285000
	C.P.	13893	11705	13958	17012	18558	20001	20804
10	Me.HP	161.00	261.00	326.00	455.00	493.00	524.00	581.00
	Th.HP	29.40	42.20	53.60	74.50	83.50	87.00	93.40
	O.T.	894000	738000	621000	457000	402000	355000	300000
	C.P.	32023	25614	26034	25941	26144	26926	26891
15	Me.HP	114.00	187.00	234.00	328.00	358.00	379.00	419.00
	Th.HP	25.70	36.70	46.00	61.50	67.90	69.50	73.00
	O.T.	904000	760000	639000	481000	428000	380000	320000
	C.P.	63254	50106	46800	41592	40312	39778	38237
20	Me.HP	87.30	144.00	180.00	253.00	277.00	292.00	324.00
	Th.HP	23.10	32.60	40.40	54.30	58.80	60.40	63.30
	O.T.	880000	742000	627000	481000	427000	375000	316000
	C.P.	72250	66257	60595	51989	49948	48805	46244
25	Me.HP	70.50	116.00	145.00	205.00	224.00	237.00	262.00
	Th.HP	19.40	27.90	34.60	47.40	50.50	50.60	52.50
	O.T.	849000	733000	629000	476000	424000	375000	319000
	C.P.	72250	72250	70287	59370	57078	55070	51917
30	Me.HP	59.10	97.60	122.00	172.00	188.00	199.00	220.00
	Th.HP	14.70	23.20	29.80	41.00	44.10	44.60	45.60
	O.T.	815000	694000	591000	448000	405000	363000	308000
	C.P.	72250	72250	72250	67162	63548	61154	57346
40	Me.HP	44.50	73.50	92.00	129.00	142.00	150.00	166.00
	Th.HP	12.00	19.40	25.20	35.00	37.80	38.30	40.00
	O.T.	739000	630000	558000	432000	390000	347000	295000
	C.P.	72250	72250	72250	72250	72250	69938	65338
50	Me.HP	35.70	59.10	73.90	104.00	114.00	121.00	133.00
	Th.HP	10.50	16.80	21.60	29.00	31.20	31.90	34.10
	O.T.	663000	605000	533000	424000	379000	335000	285000
	C.P.	72250	72250	72250	72250	72250	72250	71671
60	Me.HP	29.80	49.30	61.70	86.80	95.10	101.00	111.00
	Th.HP	8.40	14.70	18.40	25.30	27.30	28.40	31.10
	O.T.	653000	597000	515000	401000	362000	324000	275000
	C.P.	72250	72250	72250	72250	72250	72250	72250

Hollow Gear Shaft

Hollow shaft units are not standard but can be manufactured to suit your requirements. Contact Cone Drive.

Notes:

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, filler, and drains are provided.

For cap and carrier dimensions not shown, see mounting section.

Units can be supplied with water cooling coils in oil sump. All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

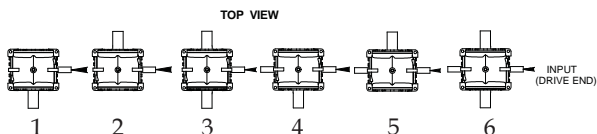
CAUTION:
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Key: Me.HP - Mechanical horsepower O.T. - Output torque in Lb. in.
 Th.HP - Thermal horsepower C.P. - Chain-pull in pounds.

Ratings to the right of heavy line require pressure lubrication. Contact Cone Drive.

Hand of Assembly Floor Mounted Units

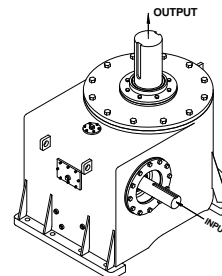
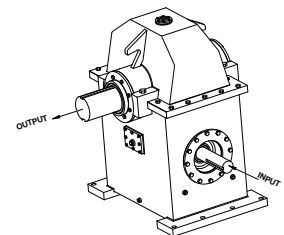
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



GEARSHAFT EXTENDED

- Opposite Feet.....7A8A9A0A
- Thru Feet7B8B9B0B
- Both Sides7C8C9C0C

HO Worm Over
 HU Worm Under
 #1 Shown

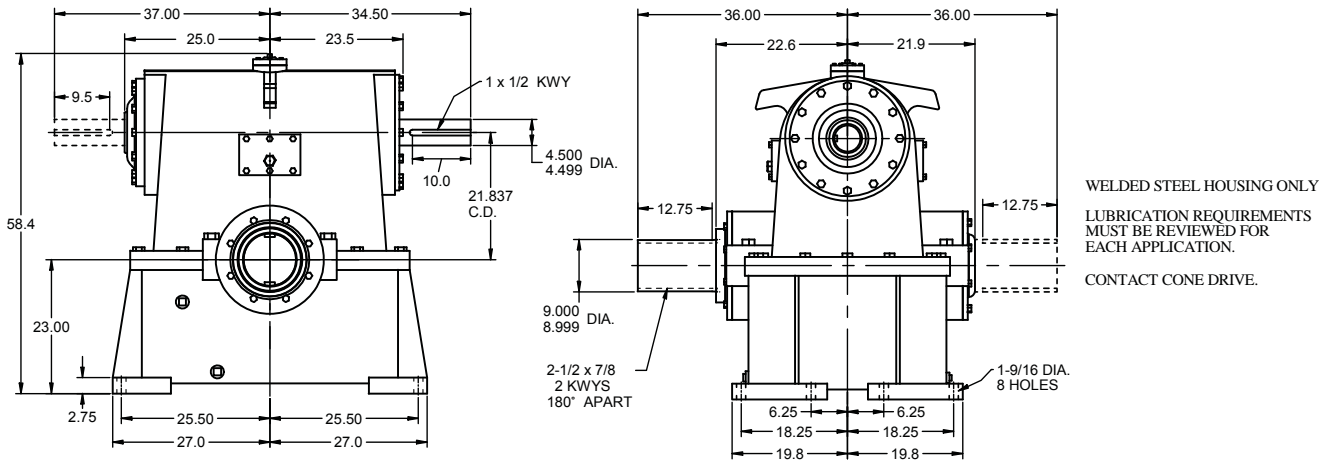


HV Vertical
 #7A Shown

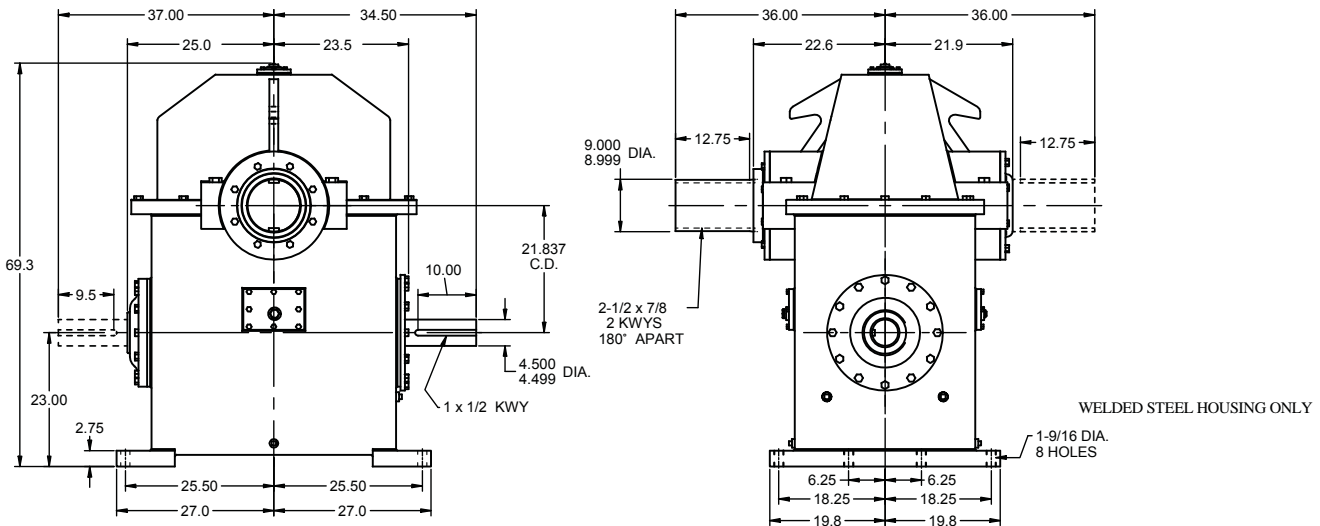
Cone Drive Single Reduction Units - 21.837" C.D.

Size 220 Solid Shaft

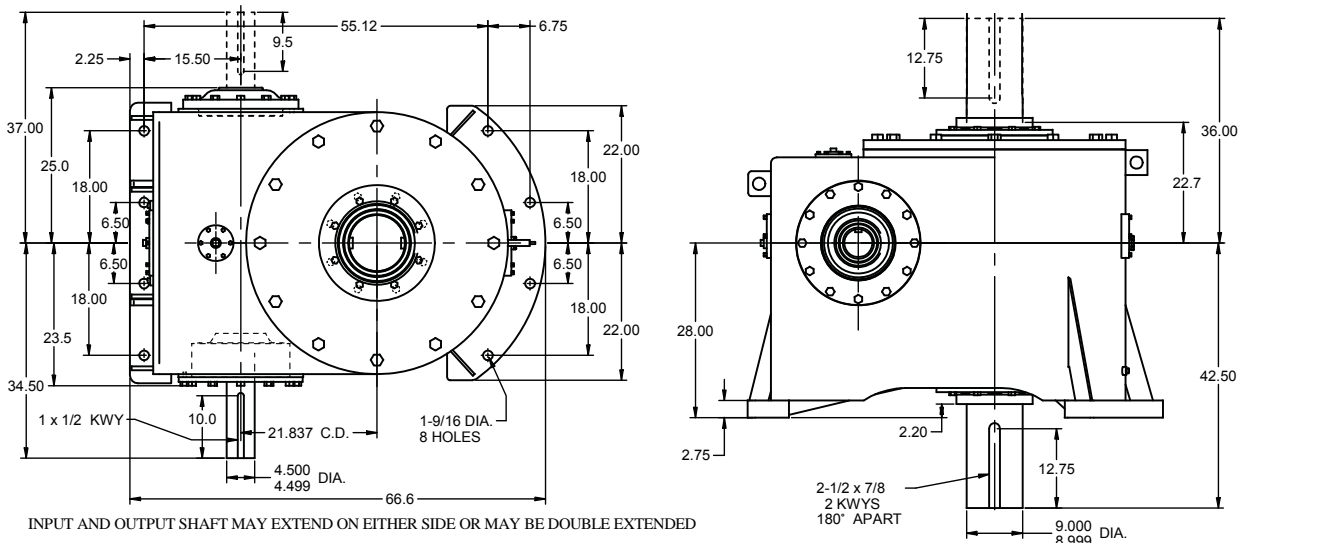
Model HO Worm Over Gear net wt. 8700 lbs



Model HU Worm Under Gear net wt. 8700 lbs



Model HV Worm Horizontal Gear Shaft Vertical net wt. 8700 lbs



Cone Drive Single Reduction Units - 21.837" C.D. Size 220

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR								
Worm RPM								
Ratio to 1		100	200	300	580	720	870	1150
4	Me.HP	439.00	642.00	789.00	1010.00	1090.00	1160.00	1230.00
	Th.HP	52.14	79.45	101.95	147.40	164.50	177.30	193.00
	O.T.	105000	777000	639000	425000	372000	328000	265000
	C.P.	50991	44613	41397	32050	19461	18856	13363
5.625	Me.HP	394.00	589.00	732.00	955.00	1033.00	1106.00	1212.00
	Th.HP	50.28	75.45	96.75	138.40	153.90	165.20	179.80
	O.T.	1301000	985000	825000	557000	487000	435000	361000
	C.P.	52572	45115	42919	16490	15537	14022	11792
7	Me.HP	254.00	541.00	673.00	896.00	965.00	1030.00	1140.00
	Th.HP	48.72	72.10	92.20	131.20	145.00	155.40	168.50
	O.T.	1430000	1110000	926000	646000	562000	501000	419000
	C.P.	69239	56238	51189	23643	20001	18543	22144
10	Me.HP	281.00	445.00	554.00	764.00	819.00	875.00	970.00
	Th.HP	45.30	64.75	82.60	115.00	125.50	133.50	144.00
	O.T.	1559000	1260000	1059000	764000	673000	596000	505000
	C.P.	28915	25625	26485	28068	29723	30532	30855
14	Me.HP	212.00	339.00	422.00	585.00	631.00	673.00	745.00
	Th.HP	40.74	58.23	72.84	98.80	106.70	112.30	119.50
	O.T.	1580000	1350000	1130000	818000	713000	631000	532000
	C.P.	63447	50465	47842	43995	43116	43112	41994
20	Me.HP	150.00	238.00	296.00	408.00	436.00	467.00	518.00
	Th.HP	35.50	49.70	62.00	83.60	89.00	92.90	97.10
	O.T.	1510000	1230000	1030000	776000	673000	599000	505000
	C.P.	87350	74220	66150	59655	58180	56630	53710
25	Me.HP	121.00	192.00	239.00	330.00	354.00	378.00	419.00
	Th.HP	30.00	42.90	53.50	72.80	76.00	78.50	81.00
	O.T.	1460000	1210000	1040000	767000	670000	600000	511000
	C.P.	100609	90078	80874	69478	67469	65178	61377
30	Me.HP	102.00	162.00	201.00	277.00	297.00	318.00	353.00
	Th.HP	22.60	35.60	46.10	63.20	66.40	68.80	70.50
	O.T.	1400000	1150000	974000	723000	641000	581000	493000
	C.P.	103800	103424	92645	79134	75116	72503	68070
40	Me.HP	76.50	122.00	152.00	209.00	225.00	240.00	266.00
	Th.HP	18.60	30.00	38.80	53.40	56.70	59.10	61.50
	O.T.	1270000	1040000	919000	700000	618000	556000	472000
	C.P.	103800	103800	103800	91362	86720	83107	77762
45	Me.HP	68.10	109.00	135.00	187.00	200.00	214.00	237.00
	Th.HP	17.40	27.95	36.00	48.95	51.75	54.15	57.05
	O.T.	1210000	1020000	900000	693000	610000	547000	465000
	C.P.	103800	103800	103800	99407	91711	87052	81795
50	Me.HP	61.40	97.90	122.00	168.00	181.00	193.00	214.00
	Th.HP	16.20	25.90	33.20	44.50	47.00	49.40	52.60
	O.T.	1140000	1000000	879000	687000	601000	537000	457000
	C.P.	103800	103800	103800	101220	96200	92068	85458

Hollow Gear Shaft

Hollow shaft units are not standard but can be manufactured to suit your requirements. Contact Cone Drive.

Notes:

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.

For cap and carrier dimensions not shown, see mounting section.

Units can be supplied with water cooling coils in oil sump.

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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.

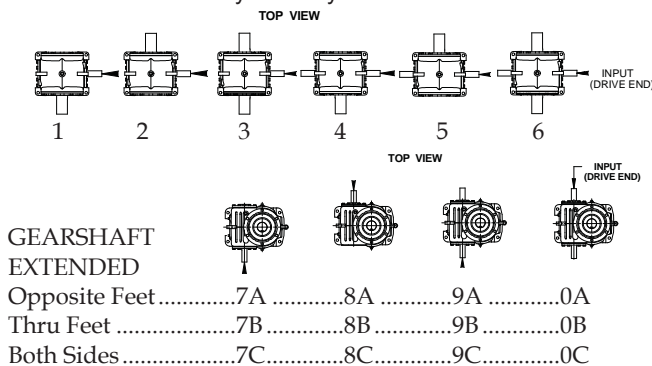
Key:

- Me.HP - Mechanical horsepower
- O.T. - Output torque in Lb. in.
- Th.HP - Thermal horsepower
- C.P. - Chain-pull in pounds.

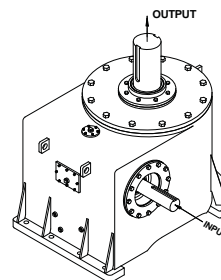
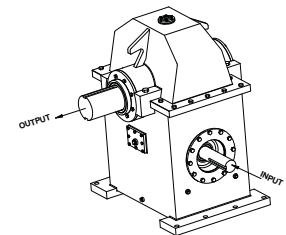
Ratings to the right of heavy line require pressure lubrication. Contact Cone Drive.

Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



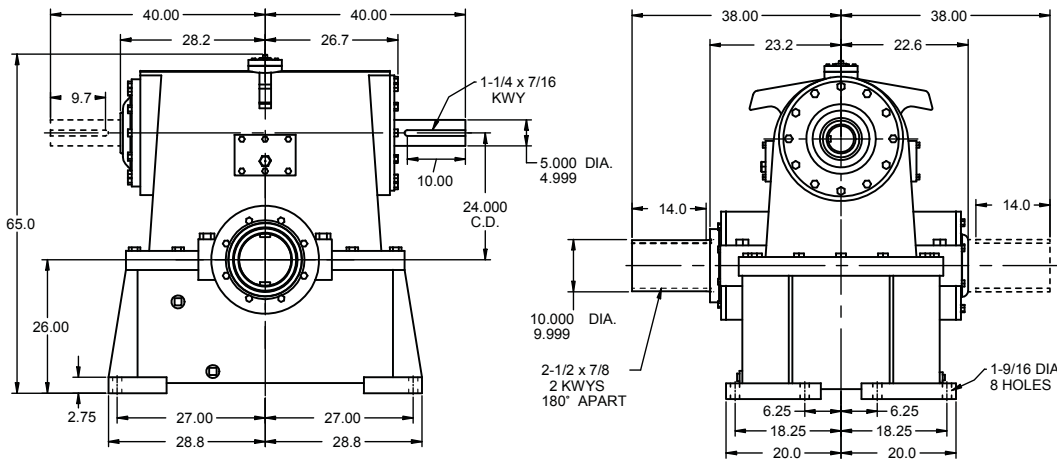
HO Worm Over
 HU Worm Under
 #1 Shown



HV Vertical
 #7A Shown

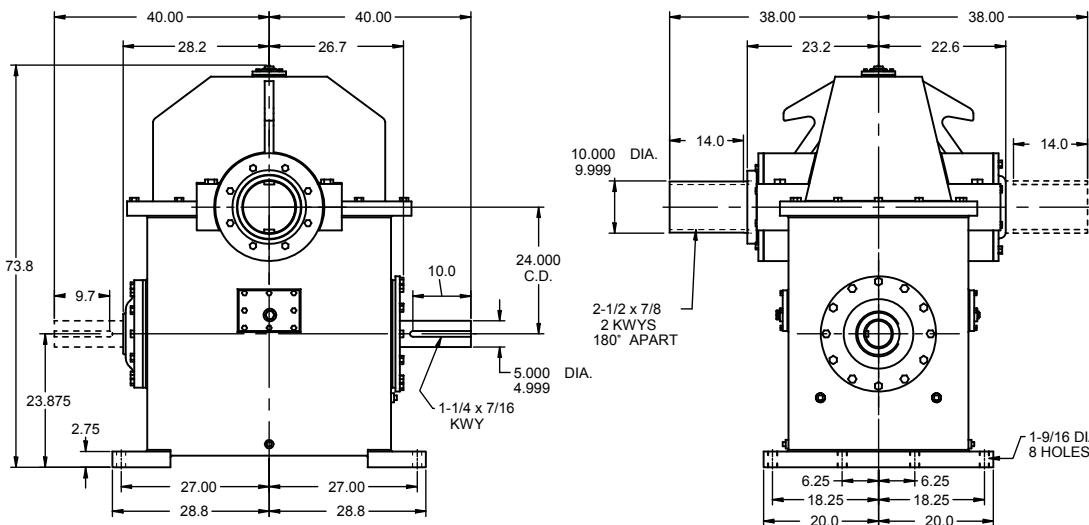
Cone Drive Single Reduction Units - 24.000" C.D. Size 240 Solid Shaft

Model HO Worm Over Gear net wt. 11,000 lbs



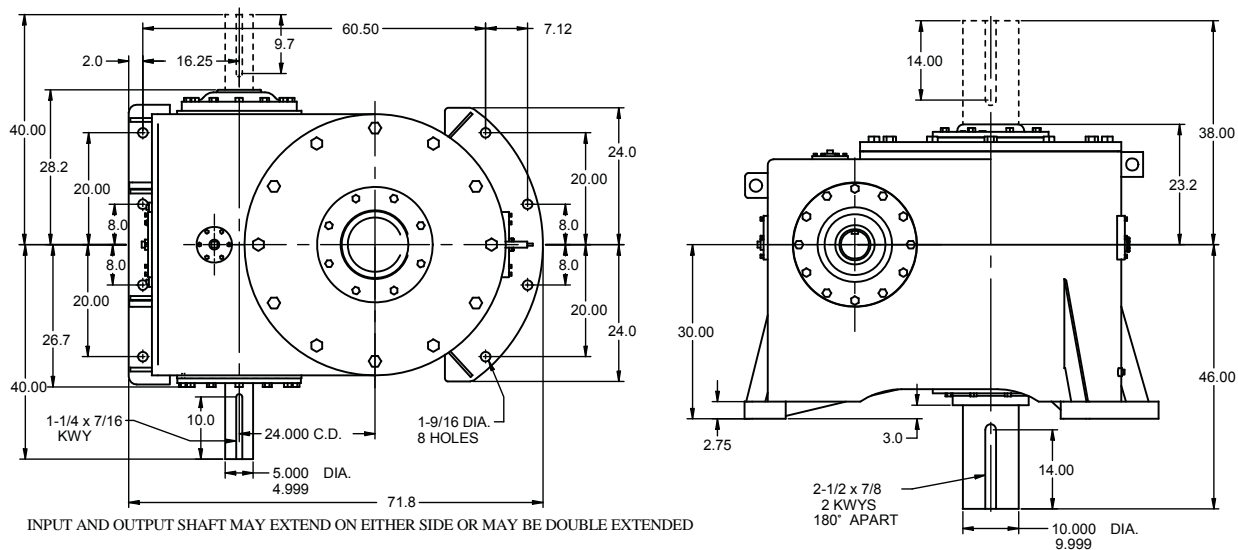
WELDED STEEL HOUSING ONLY
 LUBRICATION REQUIREMENTS
 MUST BE REVIEWED FOR
 EACH APPLICATION.
 CONTACT CONE DRIVE.

Model HU Worm Under Gear net wt. 11,000 lbs



WELDED STEEL HOUSING ONLY

Model HV Worm Horizontal Gear Shaft Vertical net wt. 11,000 lbs



WELDED STEEL HOUSING ONLY

INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

Cone Drive Single Reduction Units - 24.000" C.D. Size 240

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR								
Worm RPM								
Ratio to 1		100	200	300	580	720	870	1150
5	Me.HP	495.00	720.00	883.00	1117.00	1209.00	1282.00	1348.00
	Th.HP	59.50	89.60	115.20	165.00	184.20	198.40	215.50
	O.T.	1465000	1078000	890000	583000	508000	450000	358000
	C.P.	61913	53807	49379	13341	10115	9446	14866
8	Me.HP	412.00	617.00	770.00	1007.00	1090.00	1165.00	1280.00
	Th.HP	55.54	81.14	103.90	146.40	161.50	172.90	187.10
	O.T.	1876000	1431000	120200	819000	723000	643000	537000
	C.P.	73116	62369	56980	16348	9347	12247	15874
15	Me.HP	245.00	374.00	466.00	623.00	667.00	716.00	785.00
	Th.HP	46.25	66.00	82.20	110.50	119.00	124.70	132.20
	O.T.	1944000	1520000	1276000	914000	797000	716000	600000
	C.P.	41267	39080	39023	39876	40656	40508	40416
20	Me.HP	188.00	288.00	358.00	481.00	515.00	552.00	607.00
	Th.HP	41.50	58.50	72.60	97.30	104.00	108.80	113.20
	O.T.	1895000	1487000	1249000	920000	793000	704000	592000
	C.P.	73478	61173	58719	53694	53686	52899	51261
25	Me.HP	152.00	233.00	290.00	390.00	417.00	447.00	492.00
	Th.HP	34.90	50.00	62.30	85.00	88.75	91.60	94.40
	O.T.	1815000	1467000	1247000	911000	784000	713000	600000
	C.P.	85407	82151	74443	67883	64751	62631	60079
30	Me.HP	127.00	196.00	243.00	328.00	351.00	376.00	414.00
	Th.HP	26.40	41.50	53.80	73.60	77.40	80.30	82.20
	O.T.	1756000	1387000	1180000	855000	764000	686000	578000
	C.P.	97709	96270	88827	76726	73941	70945	67598
40	Me.HP	96.00	147.00	183.00	247.00	264.00	283.00	312.00
	Th.HP	21.70	34.90	45.30	62.40	66.10	68.90	71.80
	O.T.	1594000	1263000	1108000	827000	740000	657000	554000
	C.P.	104971	118076	106122	90866	86350	82843	77817
50	Me.HP	77.00	118.00	147.00	198.00	212.00	227.00	251.00
	Th.HP	18.90	30.20	38.80	51.90	54.80	57.60	61.30
	O.T.	1429000	1211000	1065000	808000	715000	634000	535000
	C.P.	118934	124683	122758	102154	96493	92744	86833

Hollow Gear Shaft

Hollow shaft units are not standard but can be manufactured to suit your requirements. Contact Cone Drive.

Notes:

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, filler, and drains are provided.

For cap and carrier dimensions not shown, see mounting section.

Units can be supplied with water cooling coils in oil sump.

All standard units are supplied with right-hand helix gear sets. Units are designed for shaft rotation in either direction.

For additional available ratios and left-hand helix gearing Contact Cone Drive.

Refer to page 26 for lubrication information.

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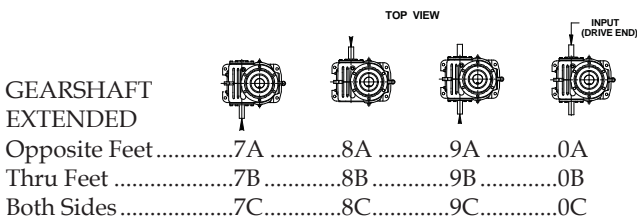
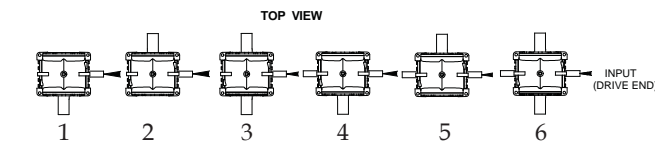
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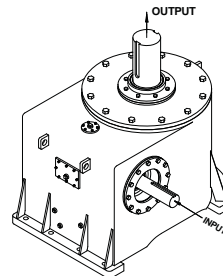
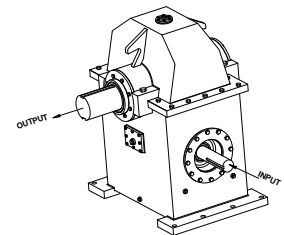
Key: Me.HP - Mechanical horsepower O.T. - Output torque in Lb. in.
 Th.HP -Thermal horsepower C.P. - Chain-pull in pounds.
 Ratings to the right of heavy line require pressure lubrication. Contact Cone Drive.

Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



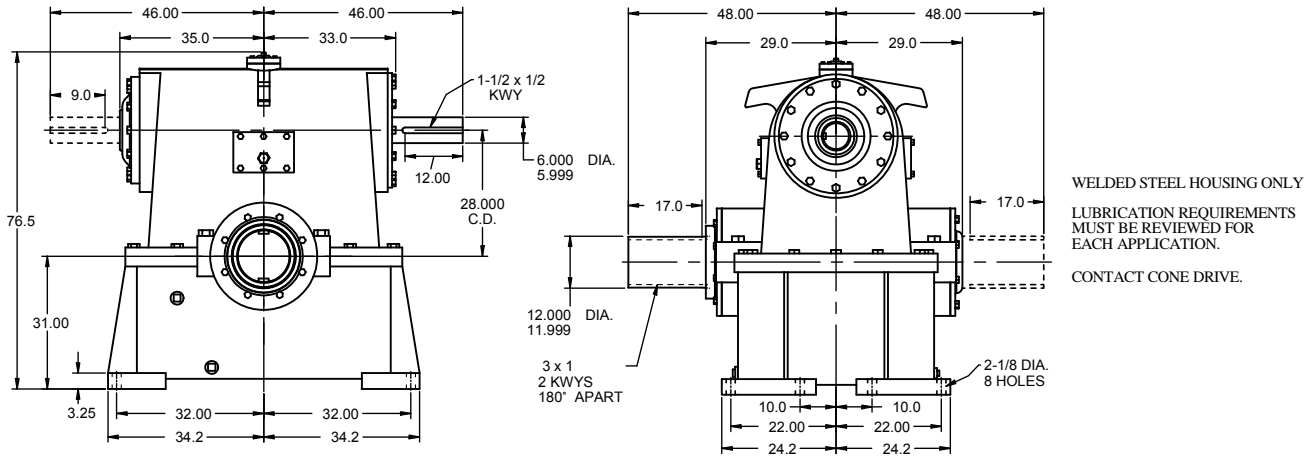
HO Worm Over
 HU Worm Under
 #1 Shown



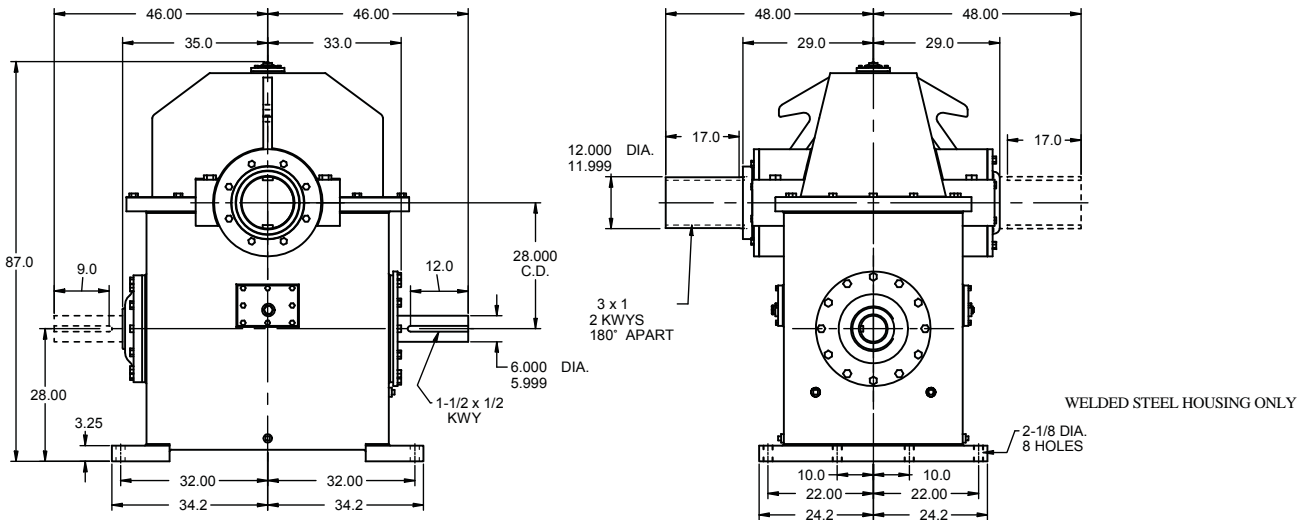
HV Vertical
 #7A Shown

Cone Drive Single Reduction Units - 28.000" C.D. Size 280 Solid Shaft

Model HO Worm Over Gear net wt. 18,500 lbs

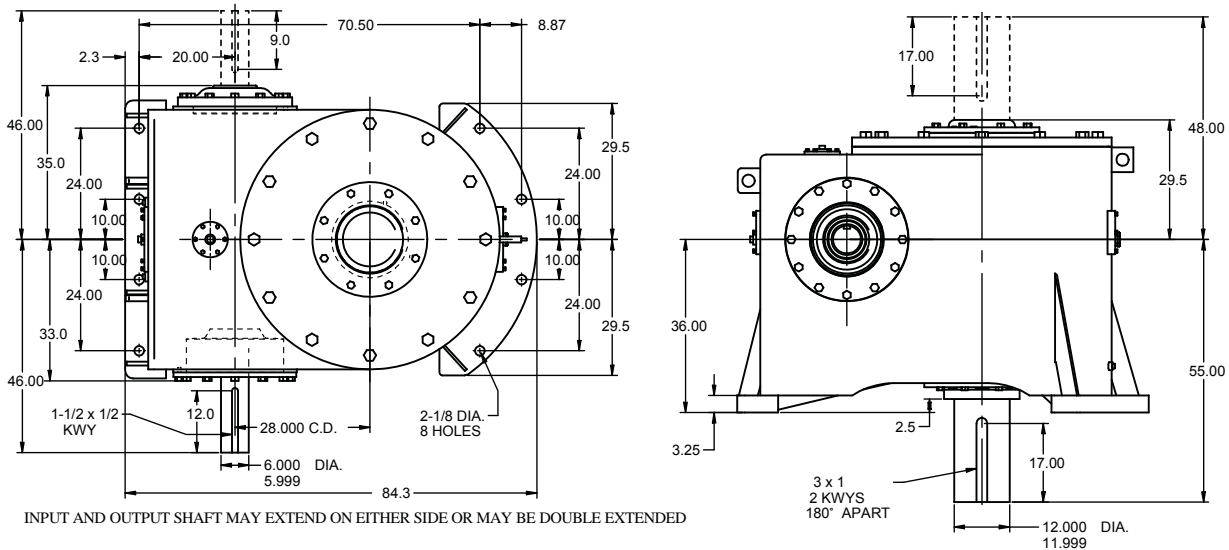


Model HU Worm Under Gear net wt. 18,500 lbs



Model HV Worm Horizontal Gear Shaft Vertical net wt. 18,500 lbs

WELDED STEEL HOUSING ONLY



Cone Drive Single Reduction Units - 28.000" C.D. Size 280

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR						
Worm RPM						
Ratio to 1		100	200	300	580	720
10	Me.HP	513	763	941	1220	1320
	O.T.	2850000	2150000	1790000	1220000	1070000
15	Me.HP	365	545	674	877	950
	O.T.	2900000	2220000	1840000	1290000	1140000
20	Me.HP	281	420	519	677	733
	O.T.	2830000	2170000	1810000	1290000	1130000
*25	Me.HP	225	336	416	544	589
	O.T.	2690000	2120000	1790000	1270000	1120000
30	Me.HP	190	285	353	461	498
	O.T.	2620000	2030000	1710000	1200000	1070000
*40	Me.HP	142	213	264	346	375
	O.T.	2370000	1830000	1600000	1160000	1040000
50	Me.HP	114	171	212	276	299
	O.T.	2130000	1760000	1530000	1130000	995000

Key: Me.HP - Mechanical horsepower
 O.T. - Output torque in Lb. in.

NOTE: THERMAL H.P. AND CHAIN PULL RATINGS MAY BE OBTAINED BY CONTACTING CONE DRIVE.
 *TOOLING CHARGE REQUIRED FOR THESE RATIOS.

Hollow Gear Shaft

Hollow shaft units are not standard but can be manufactured to suit your requirements. Contact Cone Drive.

Notes:

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.

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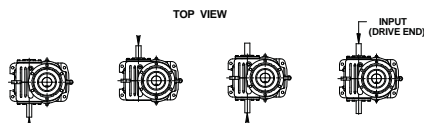
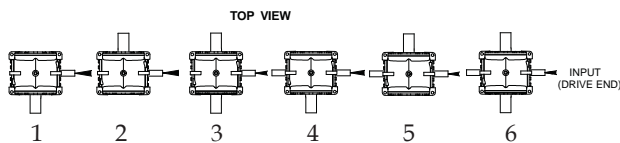
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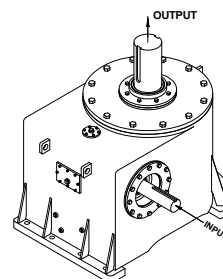
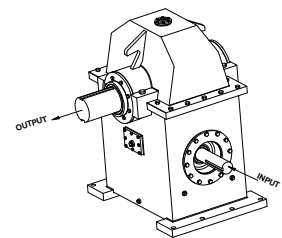
Hand of Assembly Floor Mounted Units

When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



GEARSHAFT EXTENDED
 Opposite Feet.....7A8A9A0A
 Thru Feet7B8B9B0B
 Both Sides7C8C9C0C

HO Worm Over
 HU Worm Under
 #1 Shown

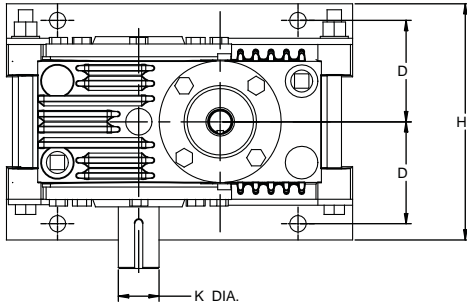


HV Vertical
 #7A Shown

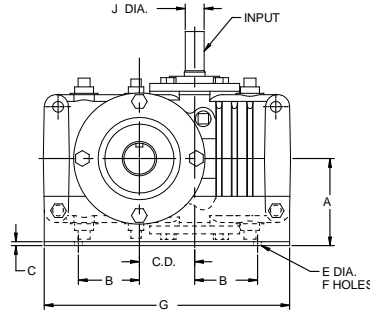
Cone Drive Single Reduction Units

Vertical Worm Reducer - Size 20 to 120

Shown
Model VH



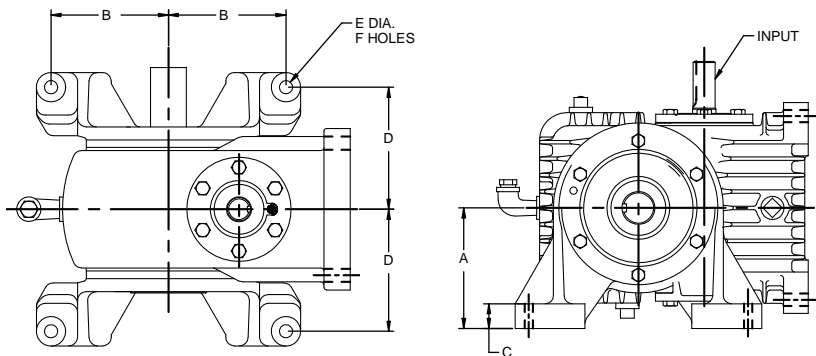
Model SVH Hollow Shaft



STANDARD UNIT
WITH SPECIAL FOOT
ANGLES DETAIL -
13VR & 13VL.

Size	C.D.	A	B	C	D	E	F	G	H	J	K	FOR DIMENSIONS NOT SHOWN SEE THIS SECTION. SIZE 20 & 25.
20	2.000	3.12	2.06	.187	2.750	.406	4	9.00	6.50	.6875	1.125	
25	2.500	3.87	2.62	.187	3.187	.406	4	10.75	7.25	.7500	1.250	

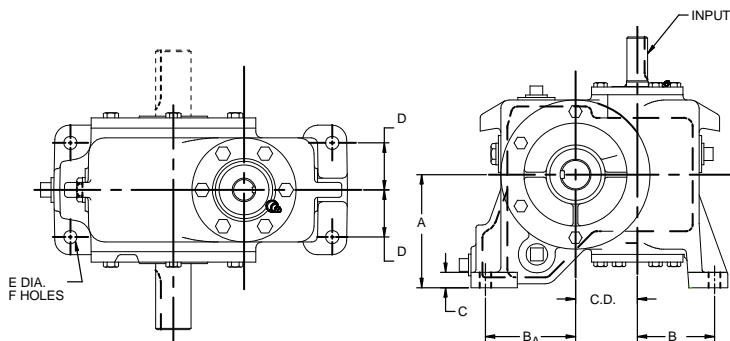
Shown
Model VHU



Model SVHU Hollow Shaft
Standard HU or SHU units with foot brackets detail No. 16.
For dimensions not shown see this section for reducer and foot brackets.
For ceiling and wall mounted units see assembly and mounting positions following in this section

Size	C.D.	A	B	C	D	E	F
30	3.000	5.50	5.00	1.2	5.25	.562	4
35	3.500	6.50	6.000	1.3	6.50	.562	4
40	4.000	7.50	6.75	1.5	7.75	.687	4
50	5.000	8.50	7.50	1.8	8.25	.812	4
60	6.000	8.50	8.25	1.5	9.00	.812	4
70	7.000	13.75	10.00	1.5	9.75	.937	4
80	8.000	15.50	11.50	1.8	10.31	.937	4

Shown
Model VH



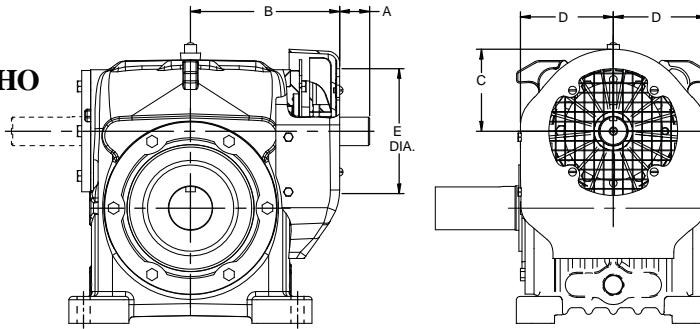
Model SVH Hollow Shaft
All details are standard stocked items except for housings which are manufactured only as required. All dimensions subject to change at final design. Refer to this section for shaft and carrier dimensions.
Ceiling and wall mounted units follow in this section.

Size	C.D.	A	B	BA	C	D	E	F
30	3.000	5.500	3.750	4.375	.75	2.000	.562	4
35	3.500	6.500	4.000	5.000	.75	3.000	.562	4
40	4.000	7.250	5.000	5.500	1.50	3.250	.687	4
50	5.000	8.000	5.625	6.750	1.70	3.750	.812	4
60	6.000	9.000	6.125	7.500	1.70	4.375	.812	4
70	7.000	11.000	6.750	8.875	2.12	5.250	.937	4
80	8.000	12.500	7.125	9.875	2.12	5.250	.937	4
100	10.000	16.000	8.250	11.750	2.37	7.000	1.062	4
120	12.000	18.500	10.125	14.000	2.75	9.250	1.312	6

Cone Drive Fan Cooling for Single Reduction Units

Ratings follow in this section.

Models FHO, FSHO



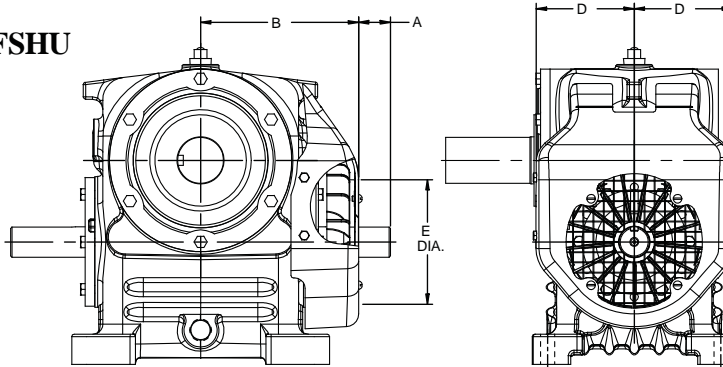
Size	A	B	C	D	E
40	1.69	7.62	4.68	4.87	4.75
50	1.88	8.62	4.87	5.75	4.75
60	2.30	9.46	6.00	6.50	6.50
70	3.00	11.50	7.00	7.31	6.50
80	2.62	12.87	7.43	7.87	10.5
100	3.62	15.62	8.43	9.50	10.5

For dimensions not shown see Models HO & SHO.

Fan and cover can be mounted at either end of reducer.

Important Do not restrict air intake flow to fan when attaching coupling, clutch or sheaves to input shaft.

Models FHU, FSHU



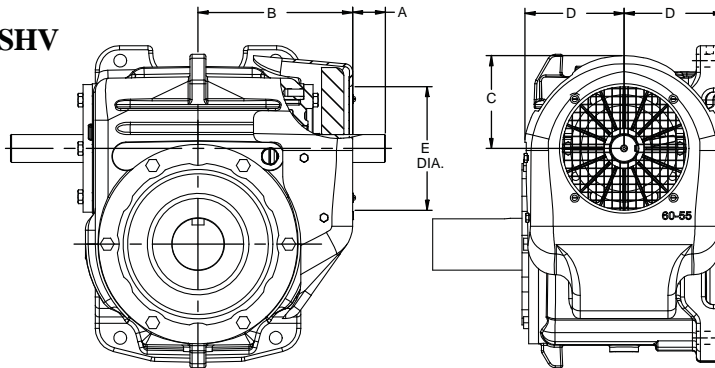
Size	A	B	D	E
35	1.50	6.25	4.38	4.50
40	1.69	7.62	5.25	4.75
50	1.88	8.62	6.00	4.75
60	2.30	9.46	6.75	6.50
70	3.00	11.50	7.75	6.50
80	2.37	13.12	8.50	10.5
100	3.37	15.87	9.00	10.5

For dimensions not shown see Models HU & SHU.

Fan and cover can be mounted at either end of reducer.

Important Do not restrict air intake flow to fan when attaching coupling, clutch or sheaves to input shaft.

Models FHV, FSHV



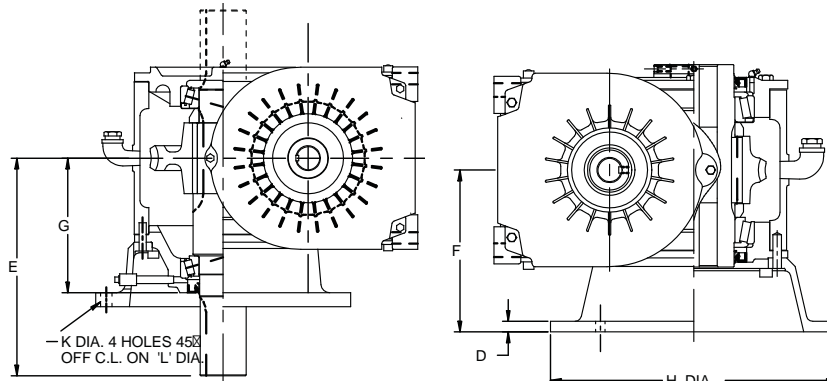
Size	A	B	C	D	E
35	1.00	6.75	4.25	4.25	4.25
40	1.69	7.62	4.68	4.87	4.75
50	1.88	8.62	4.87	5.75	4.75
60	2.30	9.46	6.00	6.50	6.50
70	3.00	11.50	7.00	7.31	6.50
80	2.62	13.2	7.43	7.87	10.5
100	3.62	15.62	8.43	9.50	10.5

For dimensions not shown see Models HV & SHV.

Fan and cover can be mounted at either end of reducer.

Important Do not restrict air intake flow to fan when attaching coupling, clutch or sheaves to input shaft.

Models FHUV, FSHUV



Size	D	E	F	G	H	K	L
35	.44	10.25	7.25	6.25	11.75	.562	10.50
40	.50	11.25	7.50	6.62	12.75	.687	11.50
50	.62	13.62	9.62	8.62	17.00	.812	15.50
60	1.00	15.38	10.50	9.62	18.00	.812	16.50
70	1.25	19.38	14.00	12.50	22.00	.937	20.25
80	1.25	19.38	14.00	12.87	24.00	.937	22.25
100	1.50	24.00	17.50	16.50	29.25	1.062	27.00

For dimensions not shown see Models FHU, FSHU, HU, & SHU.

Fan and cover can be mounted at either end of reducer.

This style reducer is considered a vertical unit.

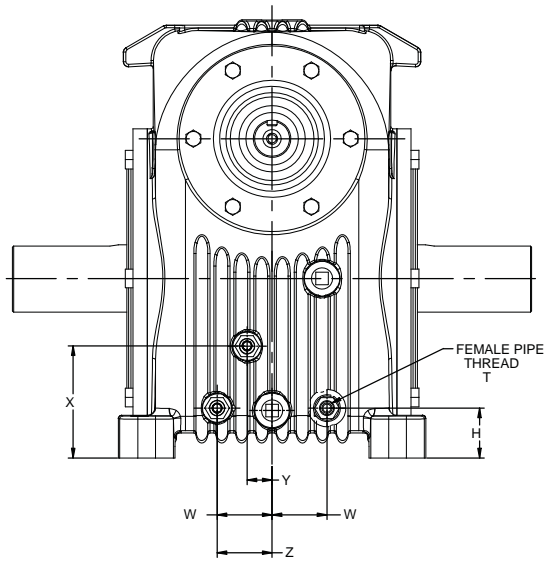
Important Do not restrict air intake flow to fan when attaching coupling, clutch or sheaves to input shaft.

Note: State on order when double extended worm is through fan cover or cut flush.

Cone Drive Water Cooling for Single Reduction Units

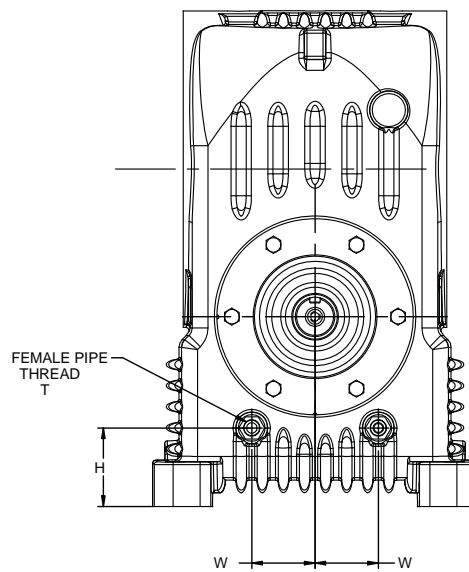
Inlet and Outlet Locations

WHO and WSHO



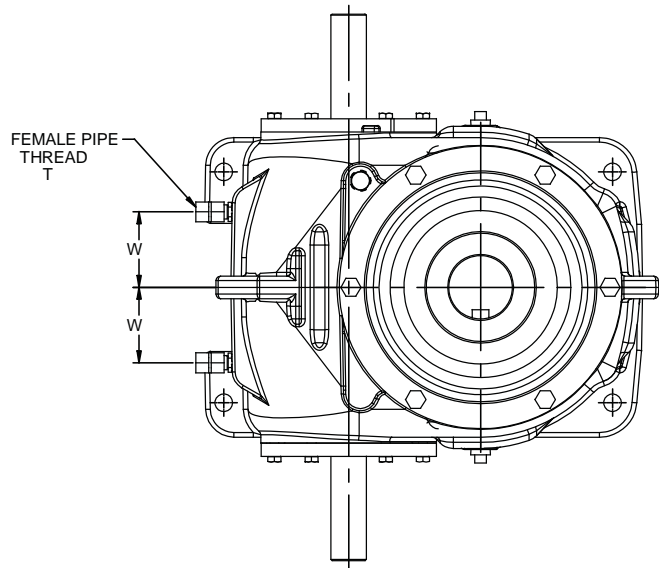
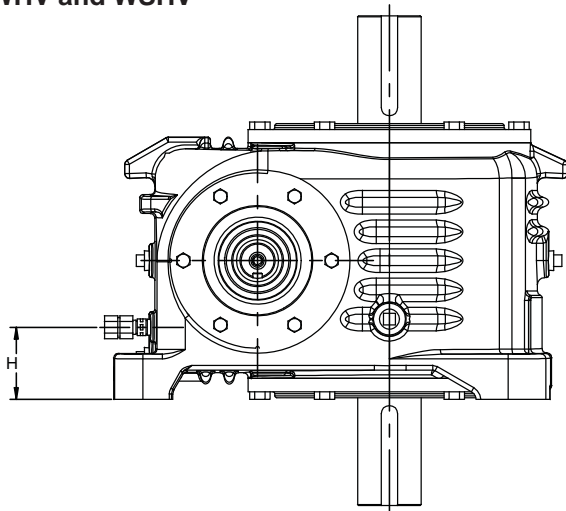
COOLING COIL INLET & OUTLET ARE LOCATED AT END OF HOUSING OPPOSIT INPUT SHAFT. SEE CAUTION NOTE BELOW

WHU and WSHU



COOLING COIL INLET & OUTLET ARE LOCATED AT END OF HOUSING OPPOSIT INPUT SHAFT. SEE CAUTION NOTE BELOW

WHV and WSHV



CAUTION: Before connecting water lines to reducer read caution tag attached to reducer.

APPROX. DIM.	Size 40			Size 50			Size 60			size 70			size 80			size 100			size 120			size 150			size 180			size 220			size 240			size 280					
	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV	HO	HU	HV			
H	2.1	2.2	3.0	2.4	2.2	3.0	2.5	2.8	3.8	2.5	3.7	3.9	3.5	4.2	4.8	4.0	4.0	5.0	6.2	6.2	10.5	9.0	6.0	11.5	7.5	7.5	13.5	10.5	8.2	15.2	12.0	10.0	17.7	12.0	12.0	18.0			
W	1.7	2.1	2.2	2.0	2.4	2.2	2.5	2.5	2.8	-	3.0	4.0	2.5	2.5	4.5	3.8	4.2	6.0	4.2	4.0	6.5	4.0	7.1	8.5	5.5	7.7	8.5	6	7.4	11.0	8.0	9.5	11.0	10.0	10.0	12.0			
X																																							
Y																																							
Z																																							
T	3/8 - 18 NPT																		1 - 1/2 NPT																				

COOLING COILS MAY BE SUPPLIED IN EITHER PLAN OR FINNED O.D. TUBING. FOR THERMAL RATING OF REDUCERS EQUIPPED WITH COOLING COILS, CONTACT CONE DRIVE.

Cone Drive Water Cooled Thermal Horsepower Ratings Size 40 through 120

Size 40 to 60 - Water Cooling TRU-FIN Th HP Rating						
Model	Ratio to 1	RPM				
		580	720	870	1150	1750
WHO 40	5	-	-	-	-	26
WHV 40*	5	-	-	-	20.5	21.8
	10	-	-	-	-	16.2
WHO 50	5	-	29	33	34	36
	10	-	-	23	25	26
	15	-	-	-	-	21
	20	-	-	-	-	16
	25	-	-	-	-	14
WHO 60	5	-	43	50	51	54
	10	-	-	-	38	39
	15	-	-	-	-	31
	20	-	-	-	-	24
WHU 60	25	-	-	-	57	59
	10	-	-	-	-	44
WHV 60	5	-	-	-	53	55
	10	-	-	-	-	40
	15	-	-	-	-	32
	20	-	-	-	-	25

Size 120 - Water Cooling TRU-FIN Th HP Rating									
Model	Ratio to 1	RPM							
		100	200	300	580	720	870	1150	1750
WHO 120	5	68	91	116	144	157	179	189	189
	10	47	63	77	100	118	122	135	135
	15	-	52	62	82	91	95	103	103
	20	-	44	53	72	76	78	82	84
	25	-	38	46	62	67	68	71	71
	30	-	32	39	51	56	58	59	59
	40	-	-	33	44	48	49	51	51
	50	-	-	-	37	40	41	44	44
	60	-	-	-	-	-	36	39	39
	70	-	-	-	-	-	-	-	37
WHV 120	10	-	-	-	144	183	185	216	-
	15	-	-	-	116	129	141	158	-
	20	-	-	-	-	101	102	110	-
WD 120	5	-	173.96	218.49	235.29	243.09	306.13	311.83	312.13
	10	77.67	97.36	112.2	134.75	170.16	172.26	200.12	200.12
	15	-	73.48	83.01	108.94	120.78	131.75	146.71	146.71
	20	-	59.58	66.62	92.61	95.31	96.27	103.47	110.02
	25	-	52.76	60.78	79.9	85.71	90.39	96.99	96.99
	30	-	42.74	49.2	60.62	68.84	71.78	75.39	75.39
	40	-	34.15	40.85	52.32	58.7	59	61.91	61.91
	50	-	30.6	36.2	46.22	50.04	50.46	53.2	53.2
	60	-	-	32.23	40.02	43.06	44.75	47.48	47.48
	70	-	-	-	36.17	39.49	41.45	43.9	44.93

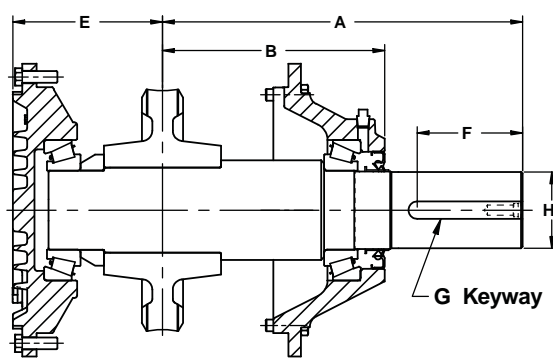
Size 70 to 100 - Water Cooling TRU-FIN Th HP Rating									
Model	Ratio to 1	INPUT RPM							
		100	200	300	580	720	870	1150	1750
WHO 70	5	-	-	-	-	-	-	-	88
	10	-	-	-	-	-	-	-	65
WHU 70	5	-	-	-	-	-	-	78	81
	10	-	-	-	-	-	-	58	59
	15	-	-	-	-	-	-	-	46
WD 70	20	-	-	-	-	-	-	-	37
	5	69	82	98	105	108	126	128	131
	10	42	51	58	68	82	83	94	95
	15	34	40	44	57	61	67	73	74
	20	28	33	36	49	50	50	54	58
	25	24	29	33	43	45	48	51	52
	30	21	24	27	32	36	38	40	41
	35	17	19	23	28	32	32	34	34
	40	14	18	20	26	27	28	29	30
	50	13	17	18	22	24	25	26	27
60	13	16	18	20	22	23	24	25	
WHO 80	5	-	-	-	-	-	-	115	120
	10	-	-	-	-	-	-	-	88
	15	-	-	-	-	-	-	-	70
WD 80	5	-	-	-	-	-	-	-	-
	10	64	76	86	-	-	-	-	-
	15	50	59	65	82	89	-	-	-
	20	-	-	52	71	72	72	78	85
	25	-	-	-	62	66	69	-	75
	30	-	-	-	-	53	55	-	59
	35	-	-	-	-	-	-	-	-
40	-	-	-	-	-	-	-	-	
50	-	-	-	-	-	-	-	-	
WD 100	5	-	-	-	-	-	-	-	-
	10	-	-	-	140	-	180	212	215
	15	-	-	-	-	124	-	155	157
	20	-	-	-	-	-	98	106	114
	25	-	-	-	-	-	-	-	102
	30	-	-	-	-	-	-	77	78
	35	-	-	-	-	-	-	-	63
	40	-	-	-	-	-	-	-	55
50	-	-	-	-	-	-	-	-	

IMPORTANT: Water cooled thermal horsepower ratings listed have ratings less than the mechanical horsepower ratings. All other models or models not shown are equal to or exceed the mechanical horsepower ratings.

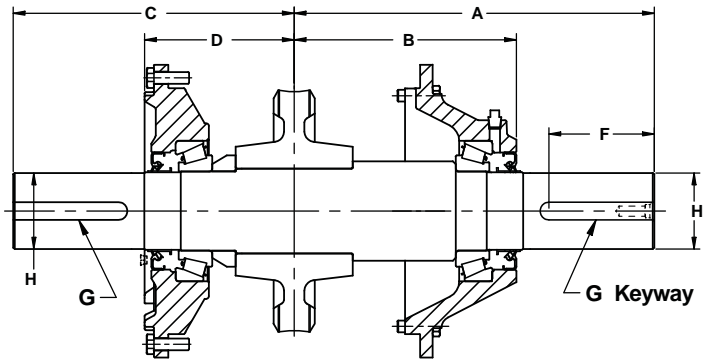
*These ratings are based on the use of plain (non-finned) cooling coils.

Contact Cone Drive for water cooled thermal horsepower ratings on Unit Size 150 and up.

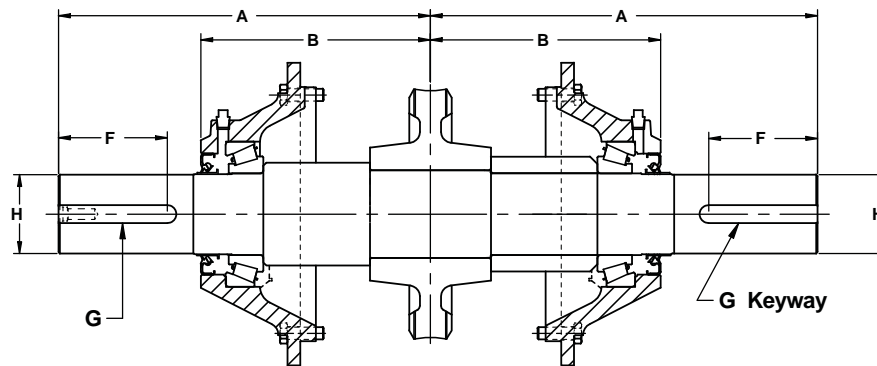
Cone Drive Steeple Bearings for Single Reduction Units



" 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 1.874
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
120	12.000	36.00	22.6	24.00	12.6	12.4	9.62	1 1/4 x 5/8	5.497 5.496

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.

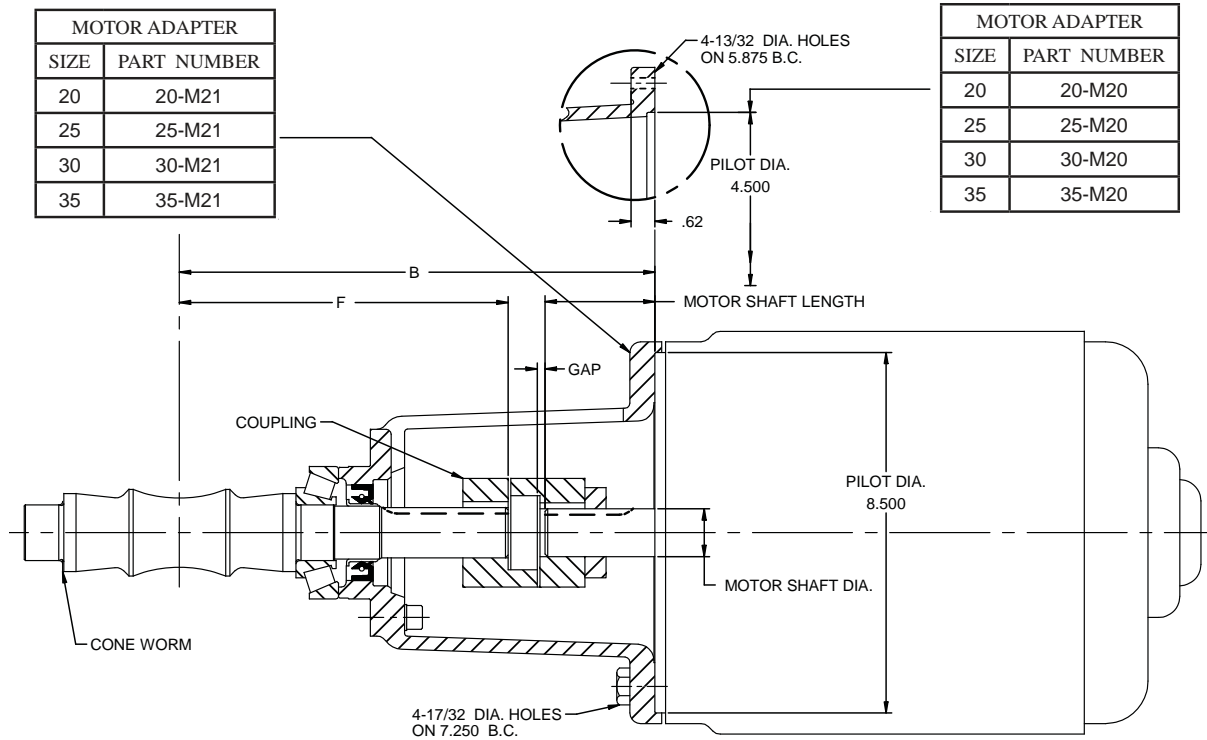
For S mounting on vertical gear shaft unit, specify steeple bearing opposite feet (U) or through feet (D).

Motor Adapters

For Cone Drive Standard Speed Reducer
 Sizes 20 25 30 35

NEMA "C" Face Motors Adapters add letter "M" before model designation

When motor is mounted vertically above worm, Add-1 to motor adapter number. Which indicates grease packing of upper worm bearing. (Sizes 30 and 35 Only.) When motor is mounted vertically, a collar is provided for assembly on the worm or motor shaft to prevent the lower coupling half from sliding down the shaft.



Adapters are available or can be custom designed for motors not matching the NEMA "C" Face dimensions shown above: DC Motors, Servo Motors, Stepper Motors, Hydraulic Motors, Air Motors and others. Couplings other than the standard

flexible elastomeric jaw type shown above are available for requirements such as low backlash and high stiffness. Please consult our Application Engineers or Sales Representatives for assistance.

Dimensions

MOTOR		B				F				GAP						
FRAME SIZE	PILOT DIA.	SHAFT			REDUCER SIZE				REDUCER SIZE				REDUCER SIZE			
		Lgth.	Dia.	Kwy.	20	25	30	35	20	25	30	35	20	25	30	35
56 C	4.50	2.06	.625	3/16	7.31	8.00	9.56	10.56	4.59	5.25	6.69	7.75	.06	.06	.06	0
143TC - 145TC	4.50	2.12	.875	3/16	7.31	8.00	9.56	10.56	4.59	5.25	6.69	7.75	0	0	0	† .06
182TC - 184TC	8.50	2.62	1.125	1/4	8.06	8.75	10.18	11.25	4.59	5.25	6.69	7.75	.12	.12	.12	.12
213TC - 215TC	8.50	3.12	1.375	5/16	-	8.75	10.18	11.25	-	4.88	6.31	7.12	-	.12	0	0

For double-extended worms, change part number from -200 to -250. † Recess coupling on motor shaft.

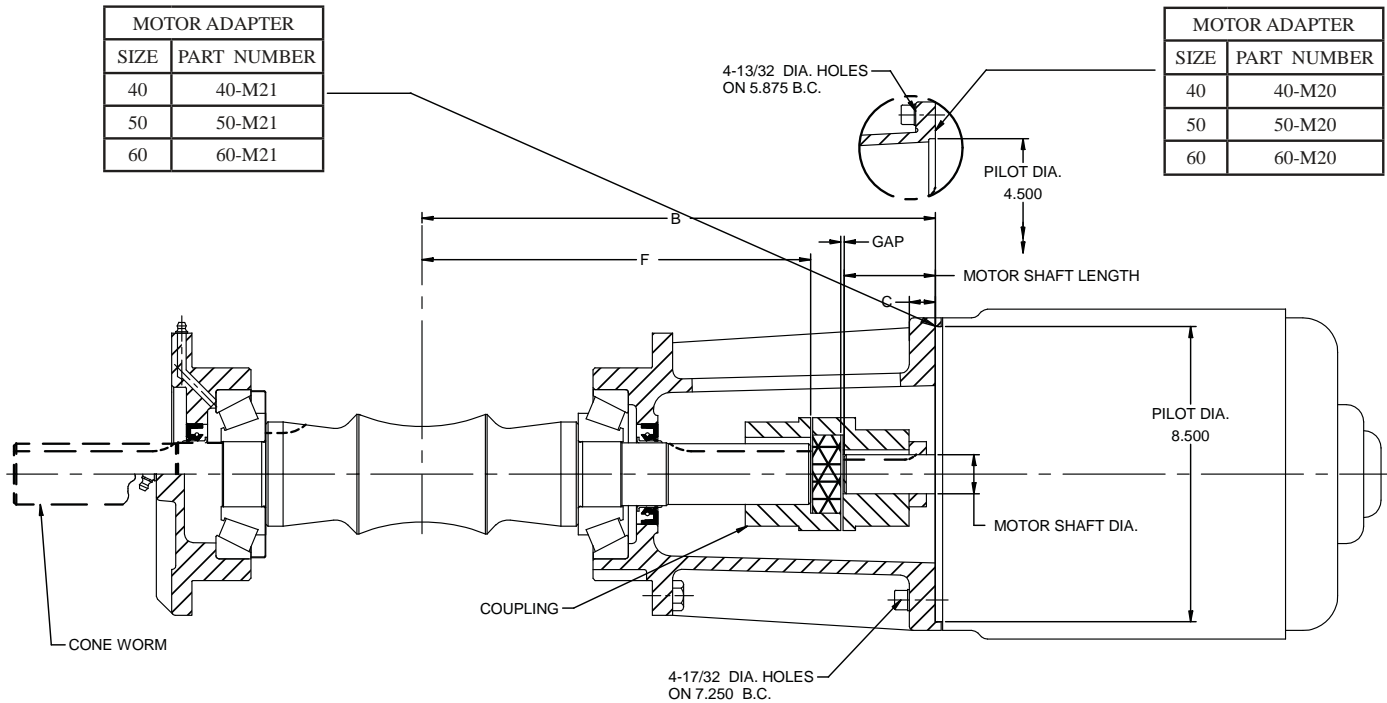
MOTOR FRAME SIZE	COUPLING NUMBER				WORM PART NUMBER			
	REDUCER SIZE				REDUCER SIZE			
	20	25	30	35	20	25	30	35
56 C	720001	720005	720105	720110	20-200	25-200	7300C-200	73500C-200
143TC - 145TC	720004	720007	720107	720112	20-200	25-200	7300C-200	73500C-200
182TC - 184TC	720102	720104	720109	720113	20-200	25-200	7300C-200	73500C-200
213TC - 215TC	-	720152	720154	720203	-	25-200-1	7300C-200-1	73500C-200-2

Motor Adapters

For Cone Drive Standard Speed Reducer
 Sizes 40 50 60

NEMA "C" Face Motors Adapters add letter "M" before model designation

When motor is mounted vertically above worm, add-1 to motor adapter number, which indicates grease packing of upper worm bearing. When motor is mounted vertically, a collar is provided for assembly on the worm or motor shaft to prevent the lower coupling half from sliding down the shaft.



Adapters are available or can be custom designed for motors not matching the NEMA "C" Face dimensions shown above: DC Motors, Servo Motors, Stepper Motors, Hydraulic Motors, Air Motors and others. Couplings other than the standard flexible elastomeric jaw type shown above are available for

requirements such as low backlash and high stiffness. Please consult our Application Engineers or Sales Representatives for assistance.

Dimensions

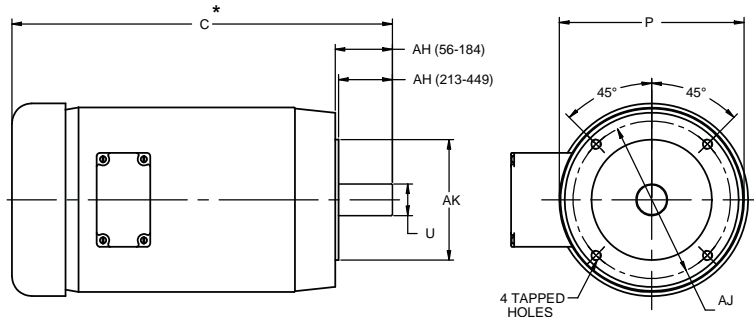
MOTOR				B			C	F			G	
FRAME SIZE	PILOT DIA.	SHAFT		REDUCER SIZE				REDUCER SIZE				
		Lgth.	Dia.	Kwy.	40	50	60	40	50	60		
143TC - 145TC	4.50	2.12	.875	3/16	10.937	12.062	13.125	.62	7.875	9.000	10.062	.937
182TC - 184TC	8.50	2.62	1.125	1/4	12.562	13.687	14.750	.75	9.000	10.125	11.187	.937
213TC - 215TC	8.50	3.12	1.375	5/16	12.562	13.687	14.750	.75	8.500	9.625	10.687	.937
254TC - 256TC	8.50	3.75	1.625	3/8	12.562	13.687	14.750	.75	7.687	8.812	9.875	1.125

For double-extended worms, change part number from -200 to -250.

MOTOR FRAME SIZE	COUPLING NUMBER			WORM PART NUMBER		
	REDUCER SIZE			REDUCER SIZE		
	40	50	60	40	50	60
143TC - 145TC	720207	720207	720212	40-200-3	50-200-3	60-200-3
182TC - 184TC	720208	720208	720213	40-200-1	50-200-1	60-200-1
213TC - 215TC	720209	720209	720214	40-200-2	50-200-2	60-200-2
254TC - 256TC	720258	720258	720260	40-200-4	50-200-4	60-200-4

NEMA Motor Frames

(dimensions shown in inch)

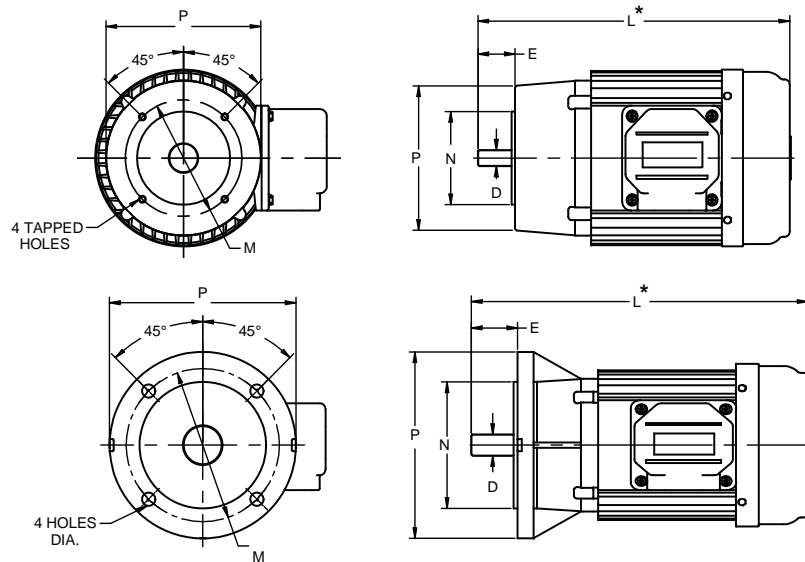


NEMA Frame	U Shaft Dia.	AH Shaft Length	AJ Bolt Circle	AK Pilot Dia.	P Diameter	C* Length (approx.)
48C	1/2	1 11/16	3 3/4	3	5 11/16	12.9
56C	5/8	2 1/16	5 7/8	4 1/2	6 5/8	11.4
143-145TC	7/8	2 1/8	5 7/8	4 1/2	6 5/8	13.4
182-184TC	1 1/8	2 5/8	7 1/4	8 1/2	7 7/8	16.5
213-215TC	1 3/8	3 1/8	7 1/4	8 1/2	9 9/16	19.8
254-256TC	1 5/8	3 3/4	7 1/4	8 1/2	12 15/16	23.7
284-286TC	1 7/8	4 3/8	9	10 1/2	14 5/8	27.8
324-326TC	2 1/8	5	11	12 1/2	16 1/2	30.3

*Note: motor length varies by motor manufacturer and horsepower. Dimensions are for reference only.

IEC Motor Frames

(dimensions shown in millimeters)

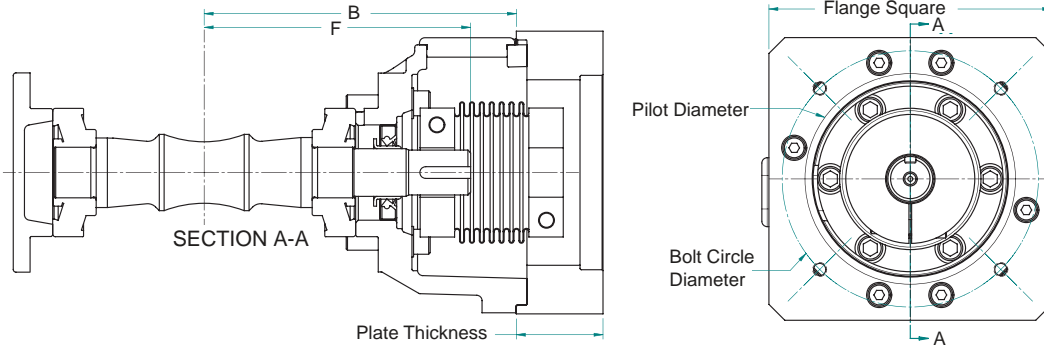


IEC Frame	D Shaft Dia.	E Shaft Length	M Bolt Circle	N Pilot Diameter	P Diameter	M Bolt Circle	N Pilot Diameter	P Diameter	L* Length (Inches) (approx.)
63	11	23	115	95	140	75	60	90	10.2
71	14	30	130	110	160	85	70	105	10.2
80	19	40	165	130	200	100	80	120	12.2
90	24	50	165	130	200	115	95	140	13.0
100	28	60	215	180	250	130	110	160	15.8
112	28	60	215	180	250	130	110	160	15.8
132	38	80	265	230	300	165	130	200	17.7
160	42	110	300	250	350	215	180	250	23.5

*Note: motor length varies by motor manufacturer and horsepower. Dimensions are for reference only.

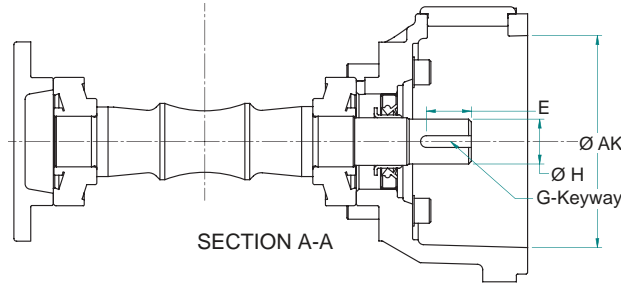
Servo Motor Adapter for Cone Drive Single Reduction Units

Size 30 35 40



Unit Size	Servo Motor Dimensions (mm) ¹				Plate Thickness Options	Interface Dimensions (mm)	
	Flange Square ²	Pilot Dia.	Bolt Circle Dia.	Shaft Length		Dim. "B"	Dim. "F"
30	160	80-130	100-165	14.-95	30 & 69	176	151
	190	114.3-180	200-228.6	29-105	49 & 79		
	240	230	265	43-116	63 & 90		
	260	180-250	215-300	65-111	85		
35	160	80-130	100-165	14-95	30 & 69	206	182
	190	114.3-180	200-228.6	29-105	49 & 79		
	240	230	265	43-116	63 & 90		
	260	180-250	215-300	65-111	85		
40	160	80-130	100-165	14-95	30 & 69	227	196
	190	114.3-180	200-228.6	29-105	49 & 79		
	240	230	265	43-116	63 & 90		
	260	180-250	215-300	65-111	85		

1) The pilot, bolt circle, and shaft lengths represent an upper and lower range.
 2) The actual motor flange square may be smaller or larger than the adapter plate square.



Unit Size	Interface Dimensions (inch)				Coupling	
	Dimension "H"	Keyway "E"	G Keyway	Dimension "AK" ³	Part Number	Screw Tighten Torque (Nm)
30	1.000/0.999	1.000	.250 x .125	4.73	57128-140	18
					57129-140	40
35	1.1875/1.1865	2.000	.250 x .125	4.91	57128-140	18
					57129-140	40
					57130-140	80
40	1.500/1.499	1.380	.375 x .19	4.73	57129-140	40
					57130-140	80

3) If coupling is not supplied by Cone Drive, care must be taken that the coupling does not interfere with this diameter or the plate diameter.

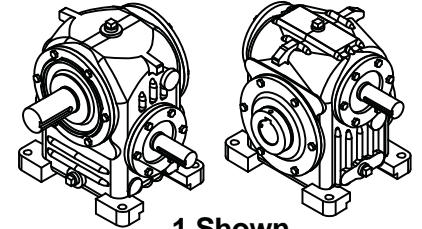
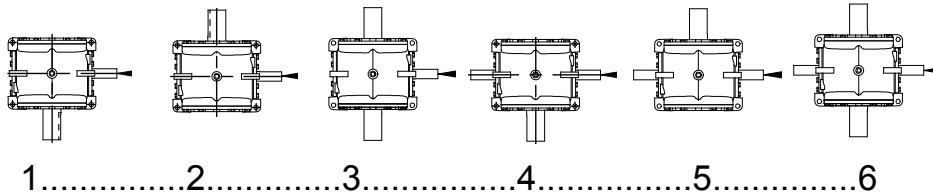
Assembly & Mounting Position Numbers for Cone Drive Single Reduction Units

Models HU, SHU, HO, SHO

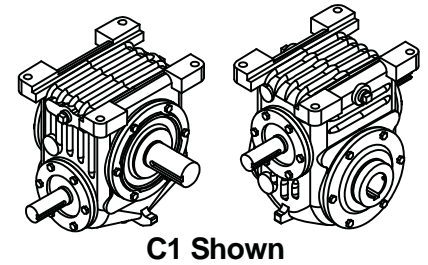
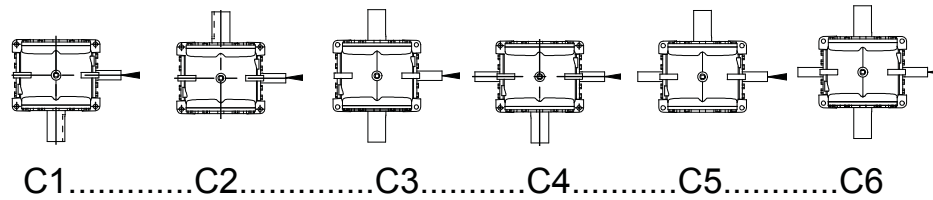
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.

Model Prefixes: F = Fan cooled W = Water cooled M = Motorized P = Pressure lube

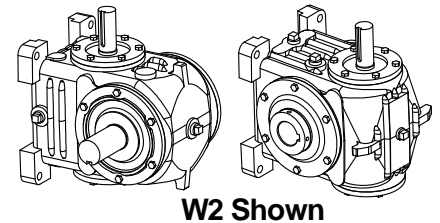
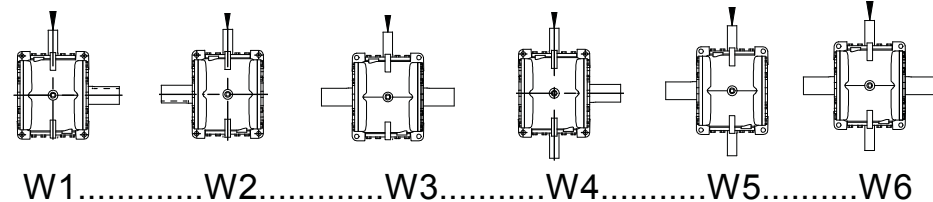
Top View, Floor Mounted



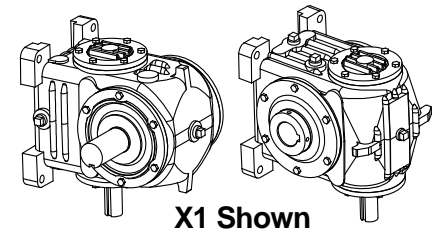
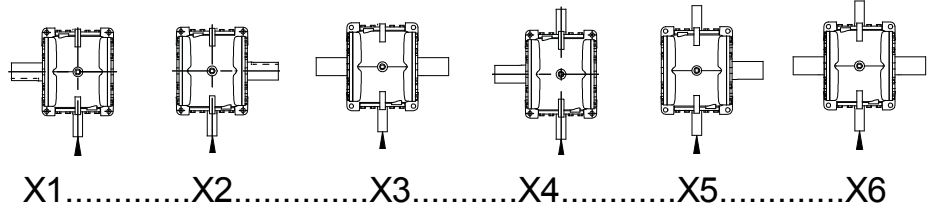
Ceiling Mounted



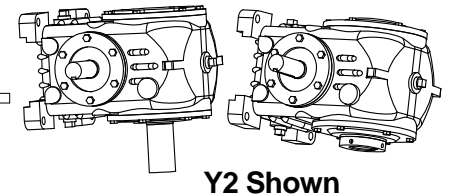
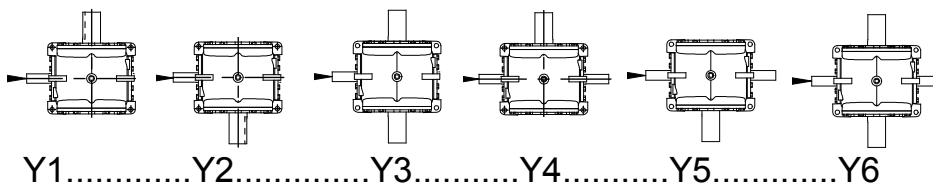
Wall Mounted, Worm Vertical Up



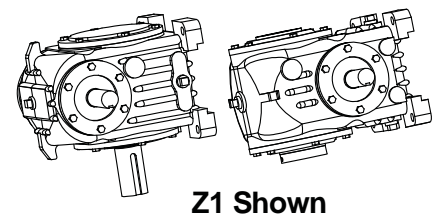
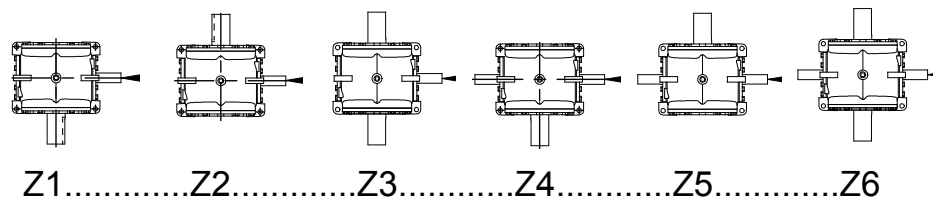
Wall Mounted, Worm Vertical Down



Wall Mounted, Worm Horizontal to the Left



Wall Mounted, Worm Horizontal to the Right



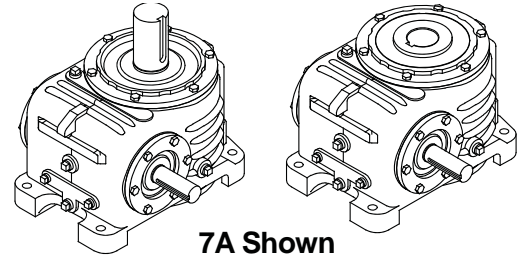
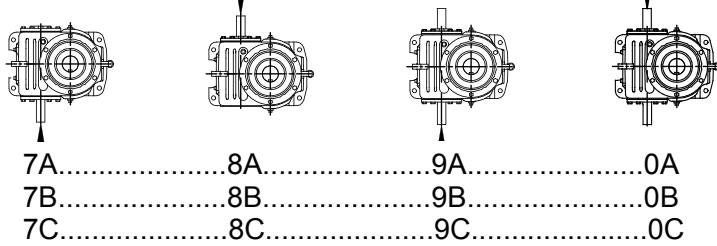
Assembly & Mounting Position Numbers for Cone Drive Single Reduction Units

Models HV, SHV

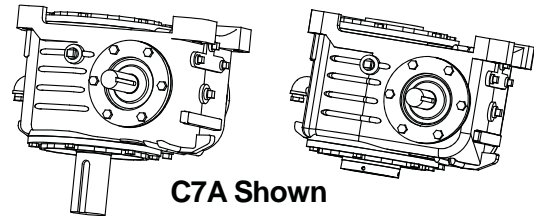
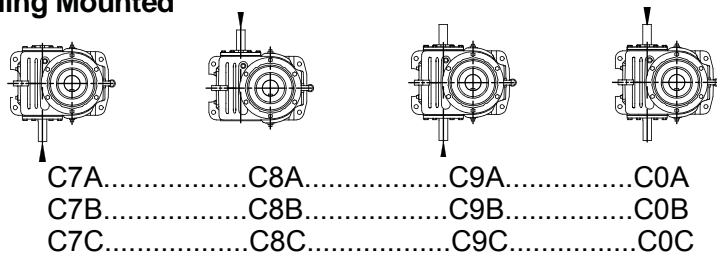
Model Prefixes: F = Fan cooled W = Water cooled M = Motorized P = Pressure lube
 ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.

A Gearshaft Extended Opposite Feet
 B Gearshaft Extended Through Feet
 C Gearshaft Double Extended

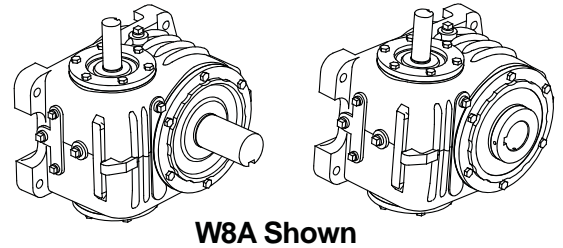
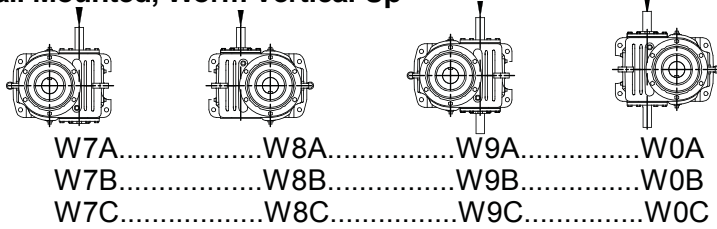
Top View, Floor Mounted



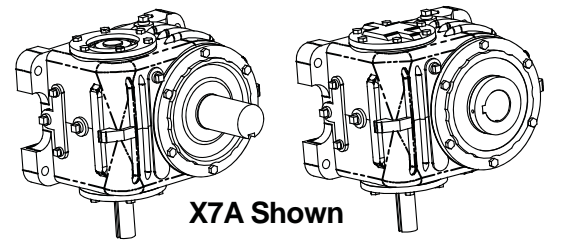
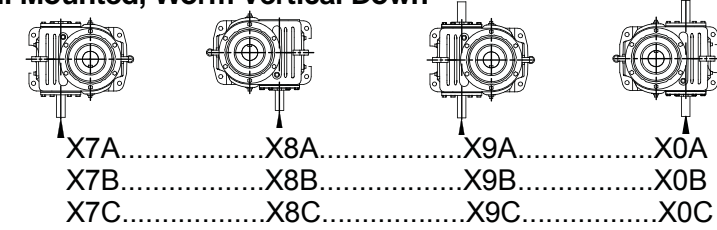
Ceiling Mounted



Wall Mounted, Worm Vertical Up

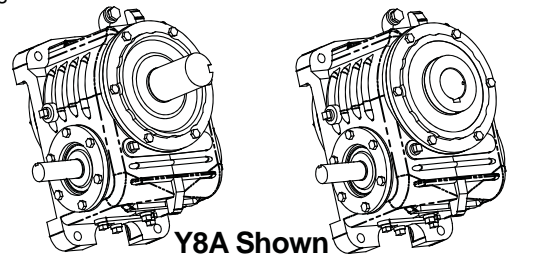
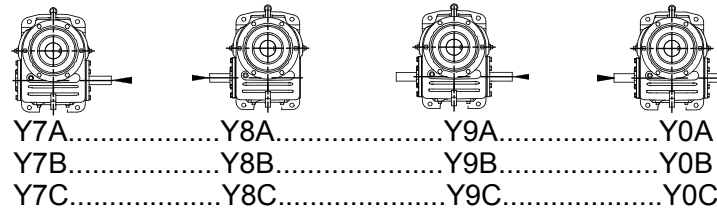


Wall Mounted, Worm Vertical Down

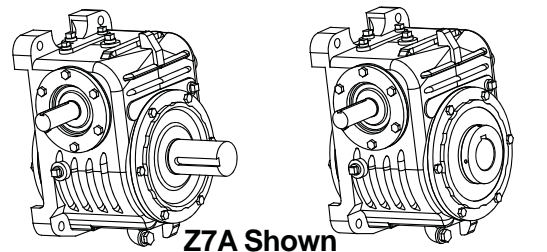
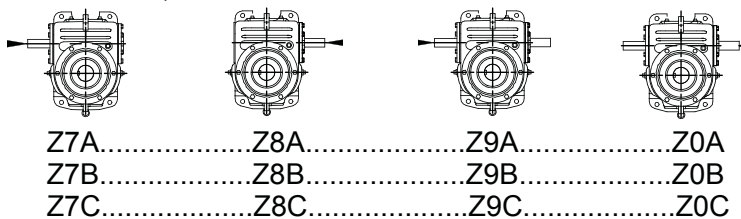


Size 100 and larger - Contact Cone Drive Regarding Lubrication of Upper Worm Bearing

Wall Mounted, Worm Horizontal Under Gear



Wall Mounted, Worm Horizontal Over Gear



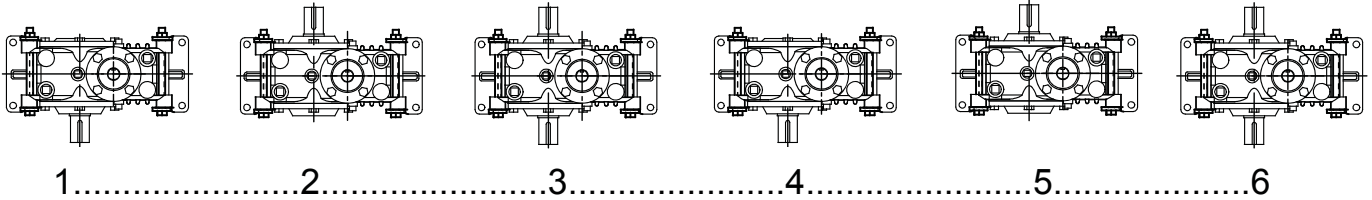
Assembly & Mounting Position Numbers for Cone Drive Single Reduction Units

Models VH, VHU, SVH, SVHU

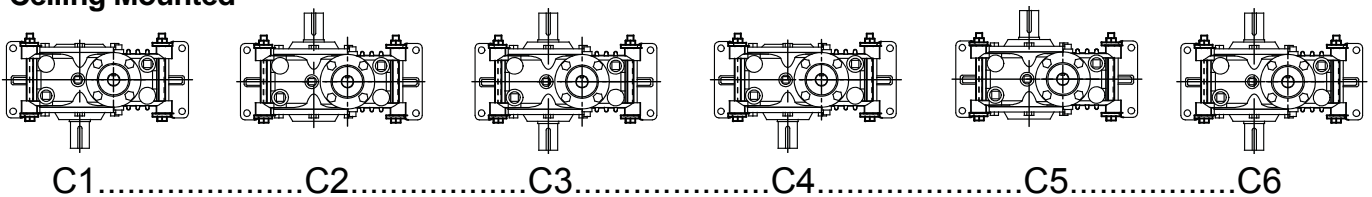
Model Prefixes: F = Fan cooled W = Water cooled M = Motorized P = Pressure lube
 ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.

DIAGRAMS 1 THRU 3 HAVE SINGLE EXTENDED INPUT SHAFTS, THE INPUT END EXTENDS UP.
 DIAGRAMS 4 THRU 6 HAVE DOUBLE EXTENDED INPUT SHAFTS
 FOR INPUT END EXTENDING DOWN SPECIFY SAME WHEN ORDERING AND ADD LETTER "D" AFTER UNIT SIZE VH50D-1

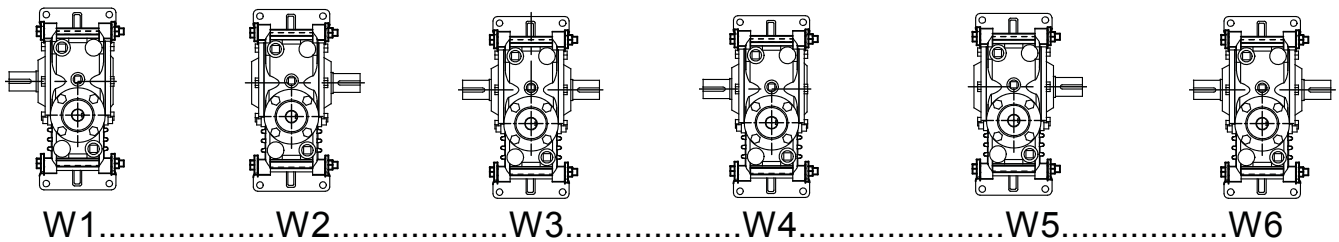
Top View, Floor Mounted



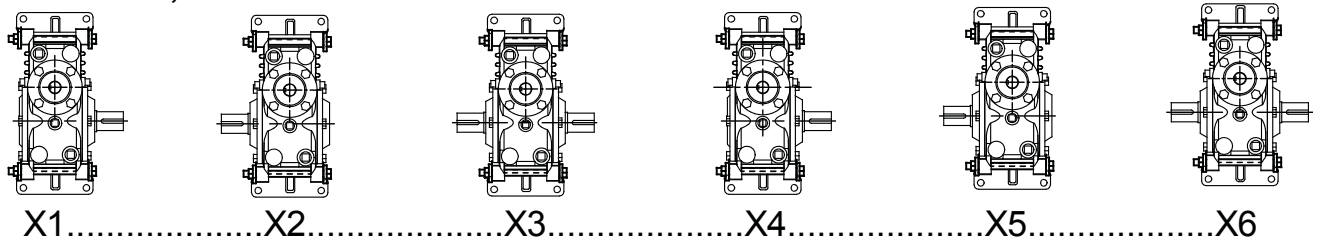
Ceiling Mounted



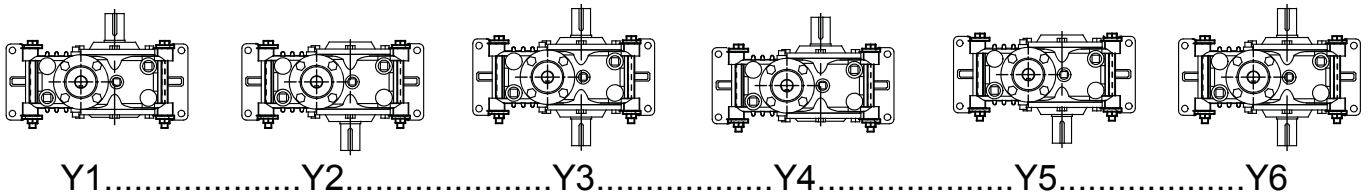
Wall Mounted, Worm Under Gear



Wall Mounted, Worm Over Gear



Wall Mounted, Worm to the Left of Gear



Wall Mounted, Worm to Right of Gear

