



TRADITIONAL PRODUCTS

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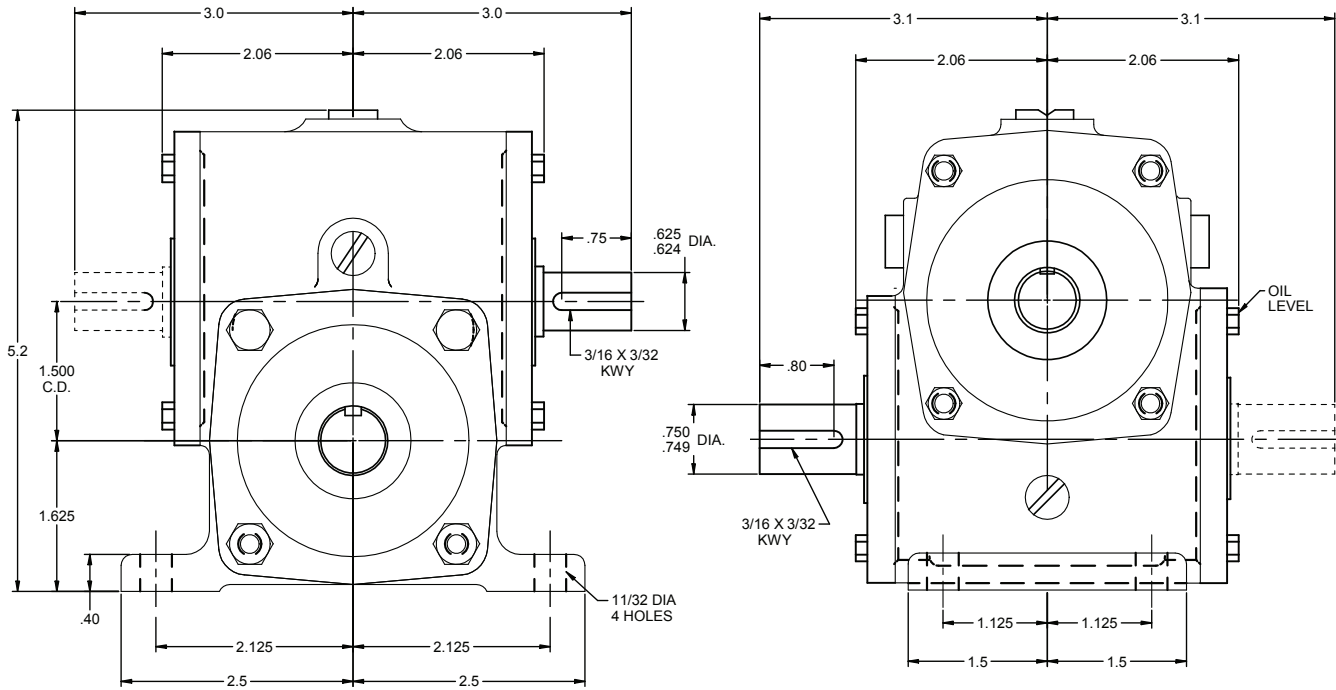
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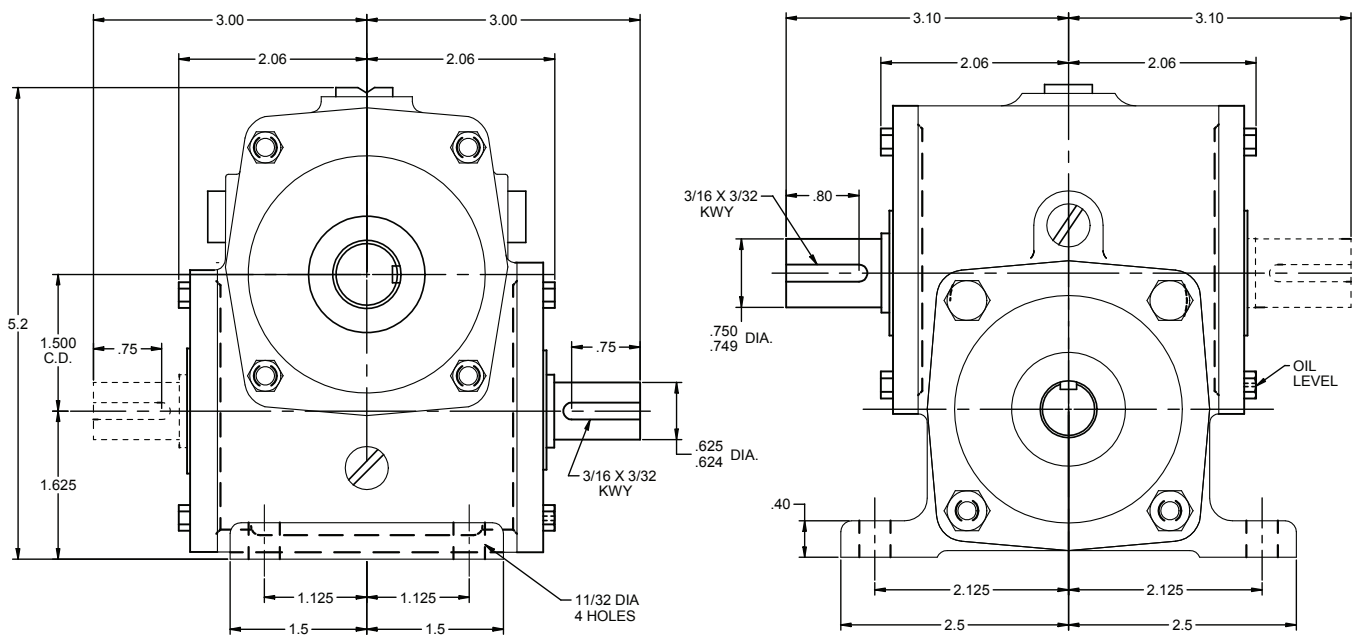
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Cone Drive Single Reduction Units - 1.500" C.D. Solid Shaft Size 15

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

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	0.24	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

Key: Me.HP = Mech. Input Power (HP)

O.T. = Output Torque (In. Lb.)

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.

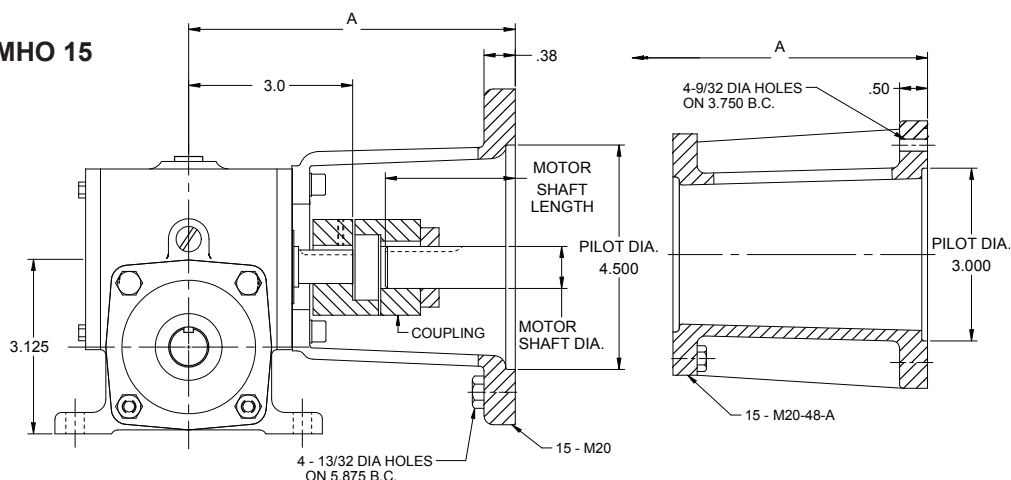
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence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

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

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

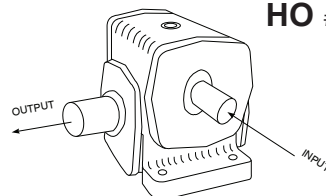
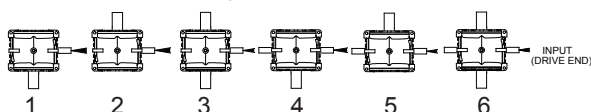
15-M20-48A

Model MHU approx. .50

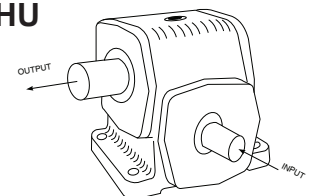
Used w/15-M20-48A

Hand of Assembly Floor Mounted Units

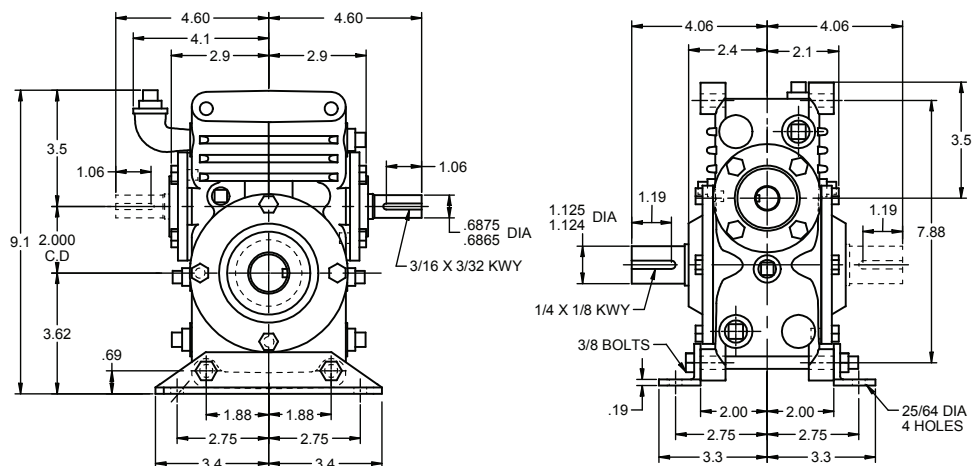
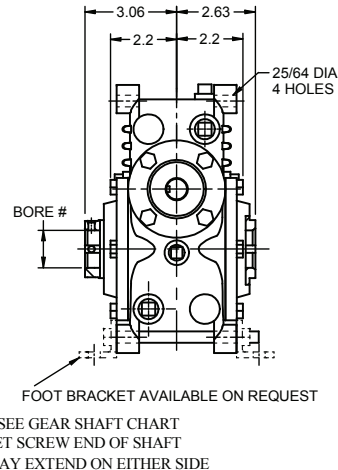
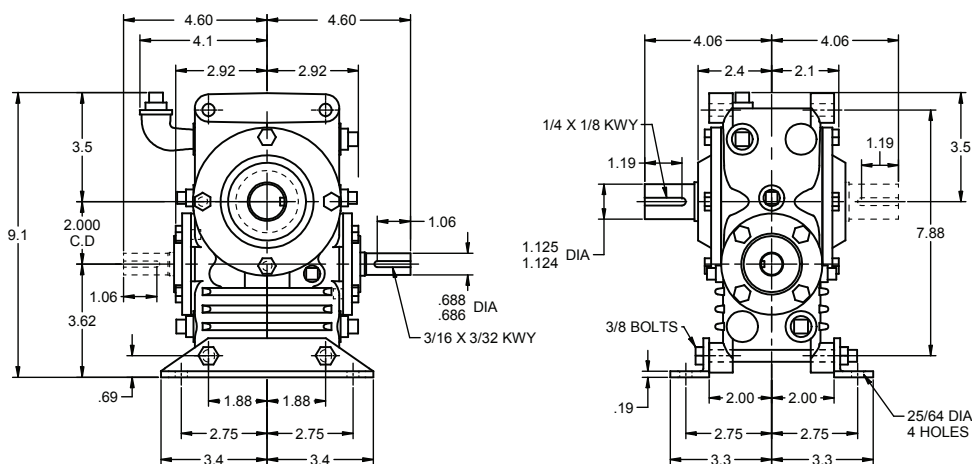
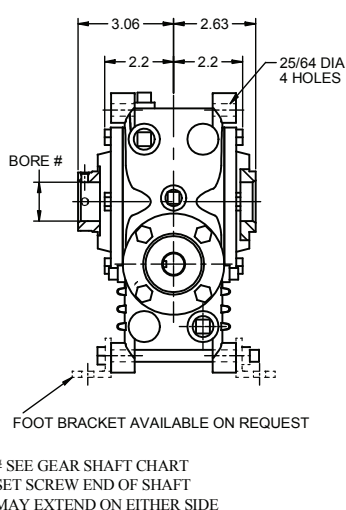
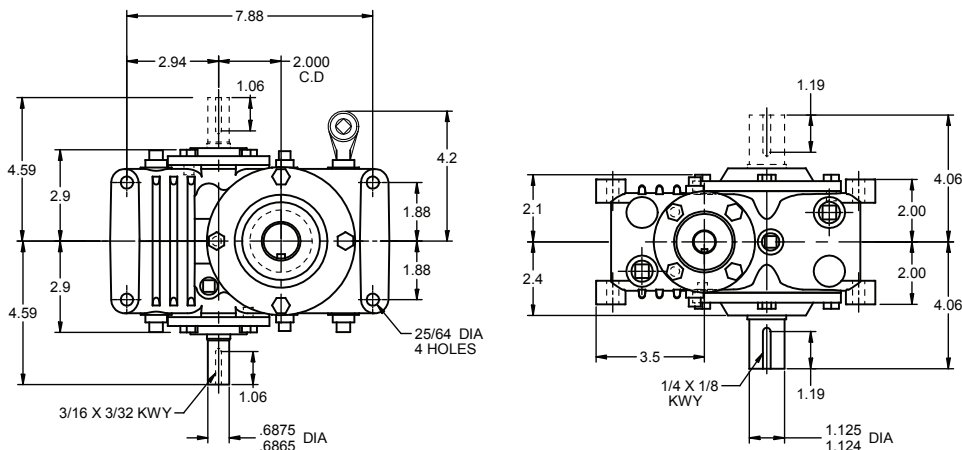
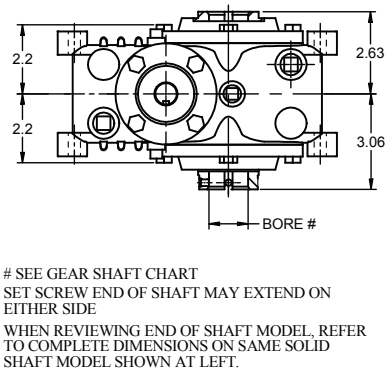
When ordering, specify the assembly number required, selected from diagrams. The hand of assembly is always determined as a floor mounted unit.



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

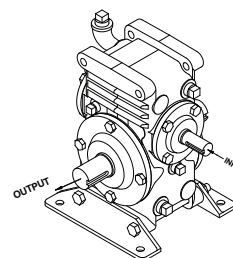
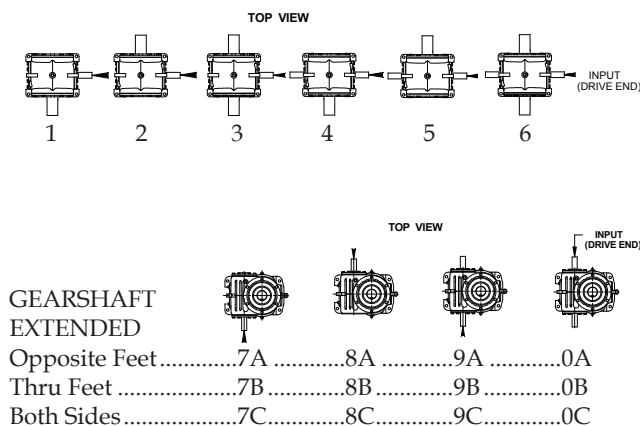
2 set screws at long end of shaft.

CAUTION:

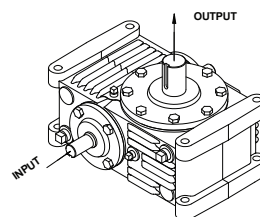
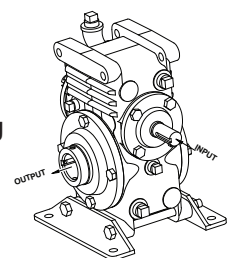
It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Hand of Assembly Floor Mounted Units

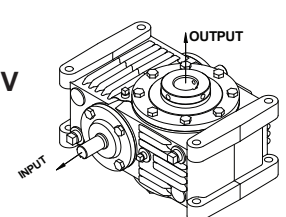
When ordering, specify the assembly number required, selected from diagrams. (Ceiling and wall mounted units follow in this section.) The hand of assembly is always determined as a floor mounted unit.

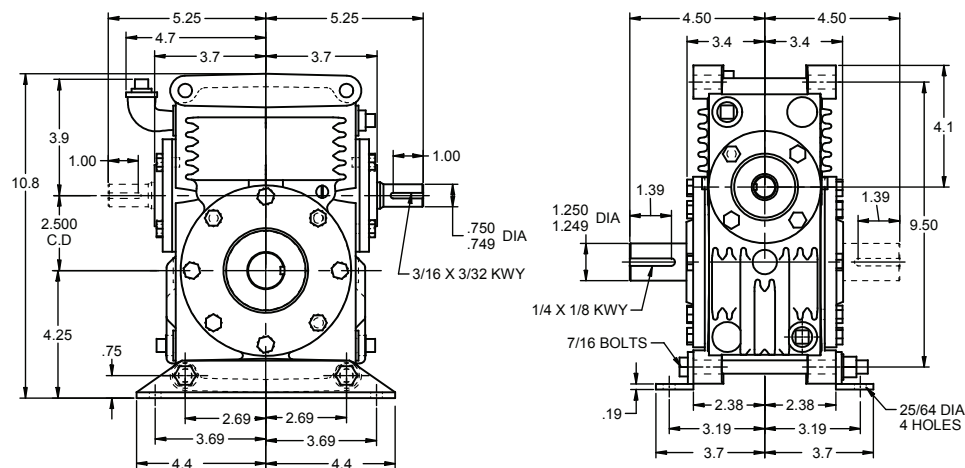
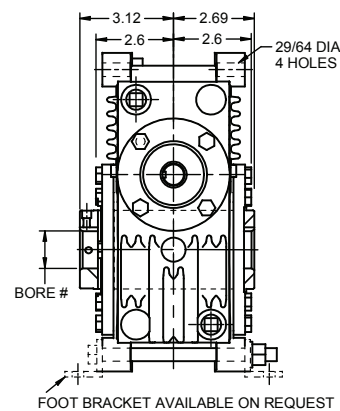


HO Worm Over SHO
HU Worm Under SHU
#1 Shown

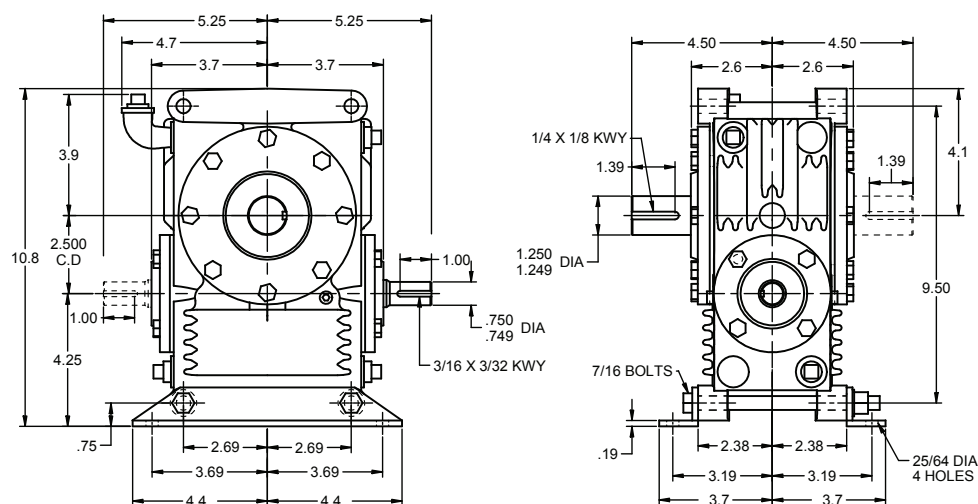
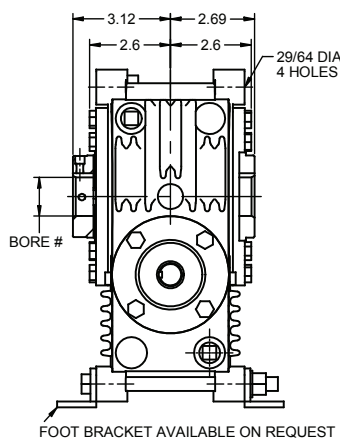


HV Vertical SHV
#7A Shown

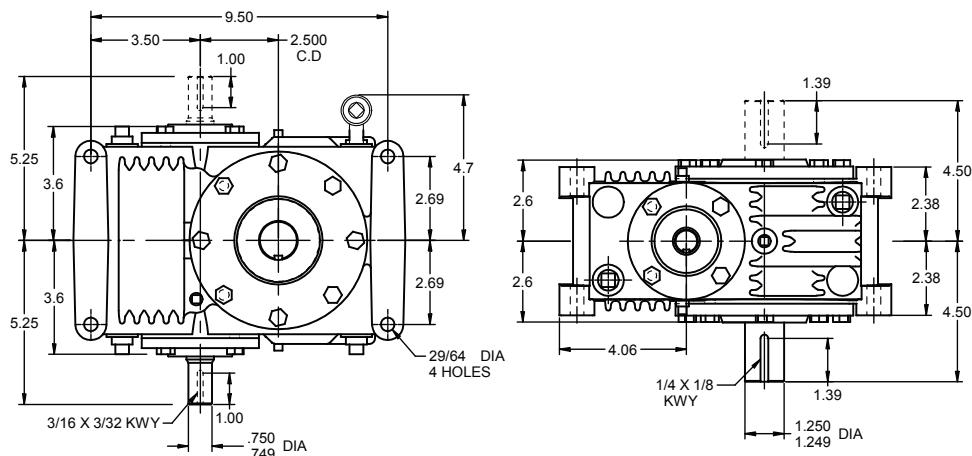
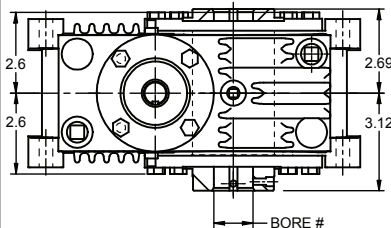


Cone Drive Single Reduction Units - 2.500" C.D.**Size 25 Solid Shaft****Model HO Worm Over Gear net wt. 45 lbs****Hollow Shaft****SHO net wt. 46 lbs**

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

Model HU Worm Under Gear net wt. 45 lbs**SHU net wt. 46 lbs**

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

Model HV Worm Horizontal Gear Shaft Vertical net wt. 45 lbs**SHV net wt. 46 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 - 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

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.

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

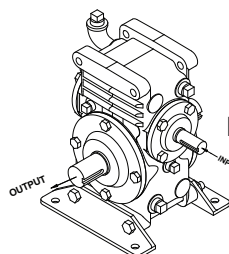
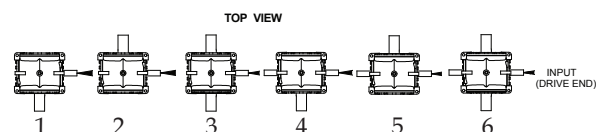
Bore Tolerance: +.002, -.000

2 set screws at long end of shaft.

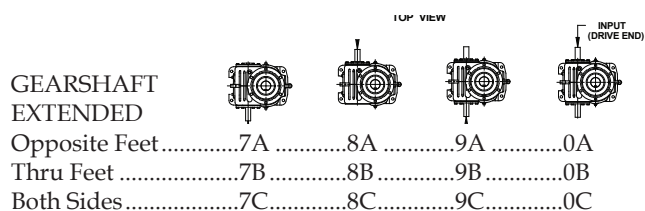
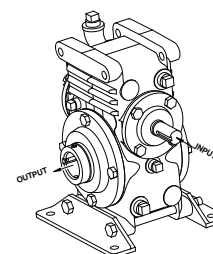
CAUTION:
It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

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.

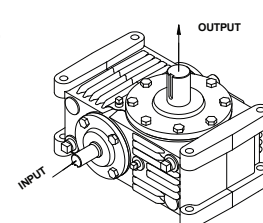


HO Worm Over SHO
HU Worm Under SHU
#1 Shown

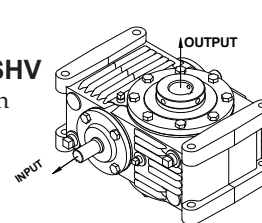


GEARSHAFT EXTENDED

Opposite Feet.....7A.....8A.....9A.....0A
Thru Feet.....7B.....8B.....9B.....0B
Both Sides.....7C.....8C.....9C.....0C



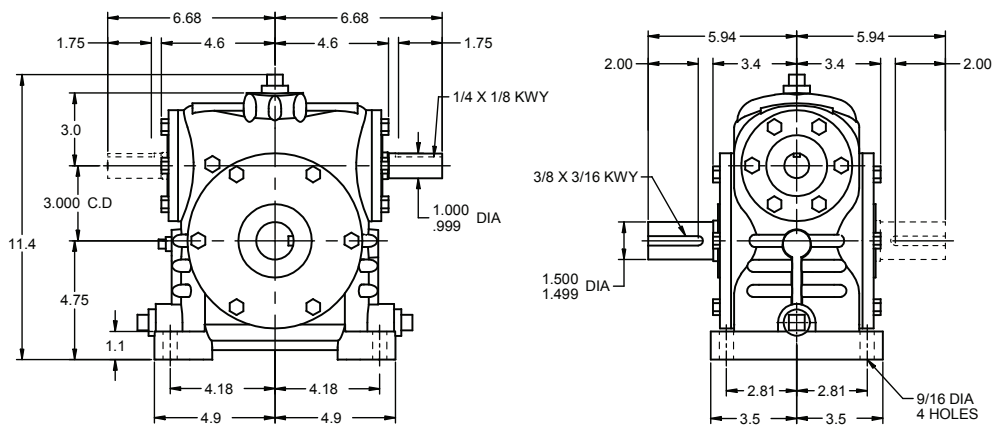
HV Vertical SHV
#7A Shown



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

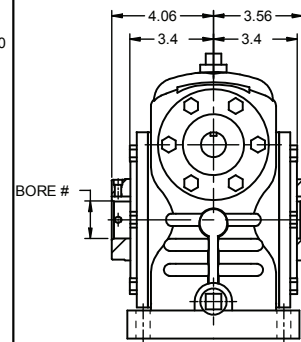
Size 30 Solid Shaft

Model HO Worm Over Gear net wt. 73 lbs



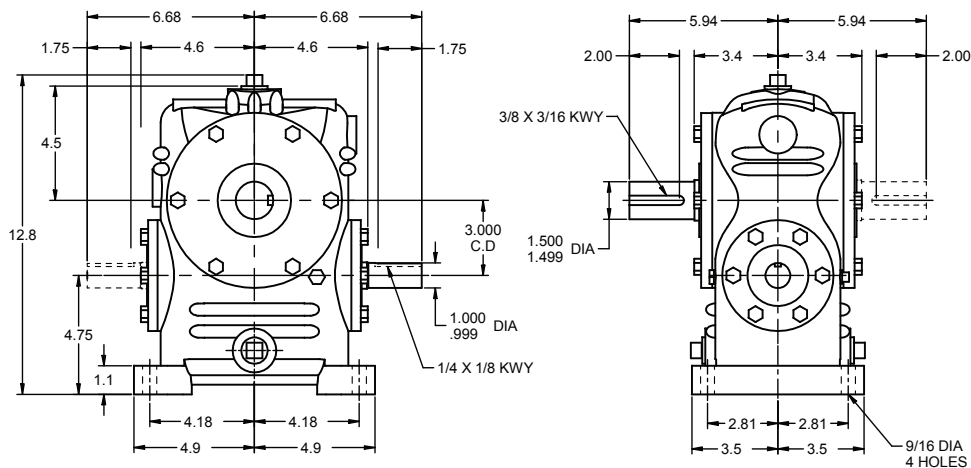
Hollow Shaft

SHO net wt. 92 lbs

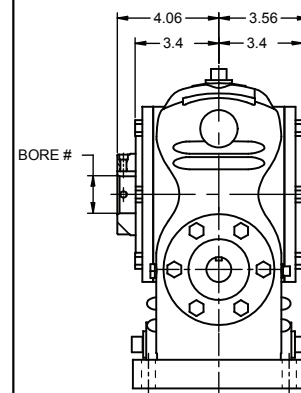


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model HU Worm Under Gear net wt. 83 lbs

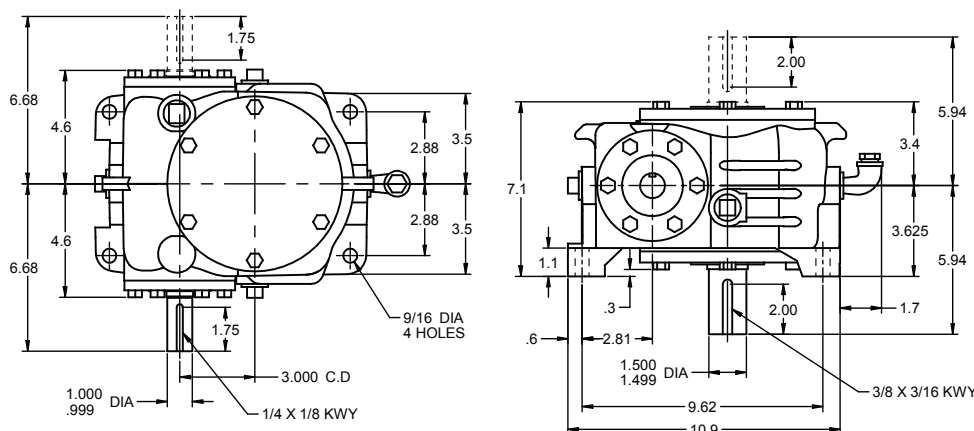


SHU net wt. 90 lbs

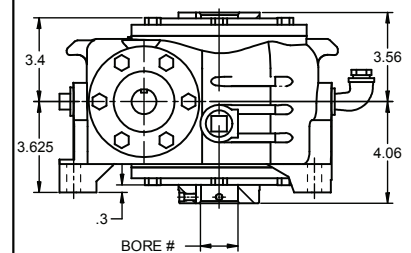


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

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
	Th.HP Fan								
	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
	Th.HP Fan								
	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
	Th.HP Fan								
	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
	Th.HP Fan								
	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
	Th.HP Fan								
	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
	Th.HP Fan								
	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
	Th.HP Fan								
	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
	Th.HP Fan								
	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
	Th.HP Fan								
	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

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, 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

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

*AGMA Standard

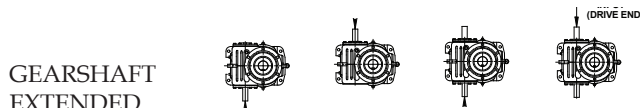
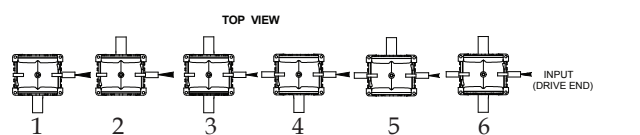
Bore Tolerance: +.002, -.000

2 set screws at long end of shaft.

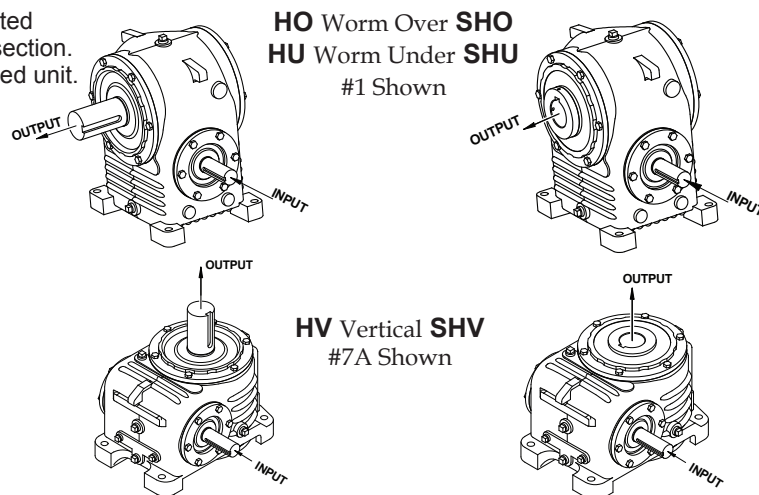
CAUTION:
It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

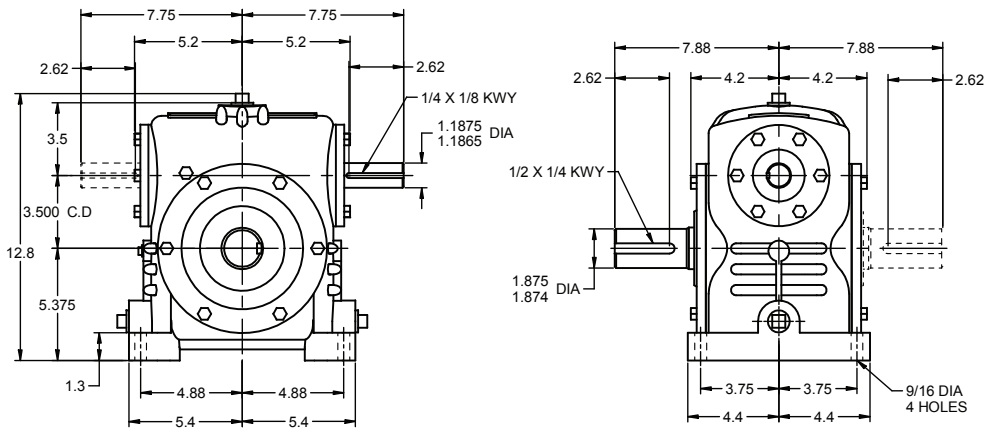
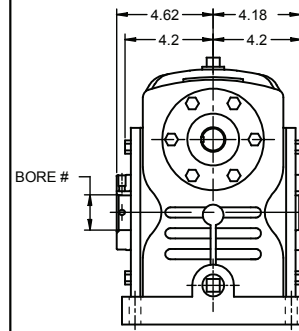
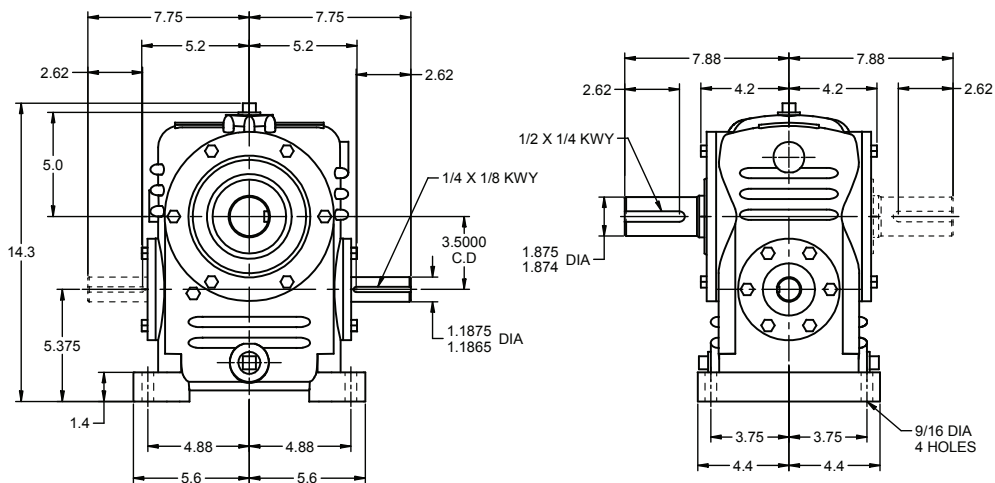
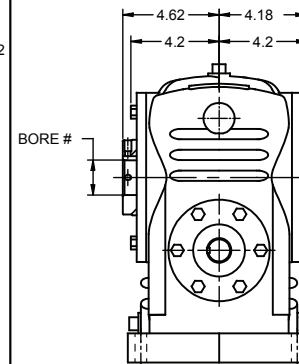
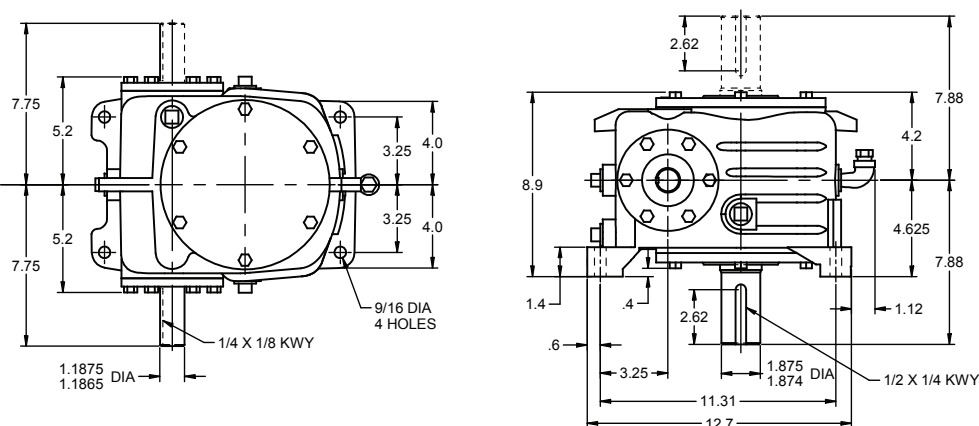
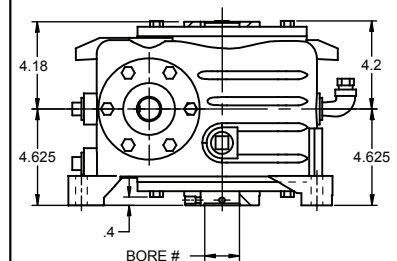
Hand of Assembly Floor Mounted Units

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 Feet.....7A.....8A.....9A.....0A
Thru Feet.....7B.....8B.....9B.....0B
Both Sides.....7C.....8C.....9C.....0C



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

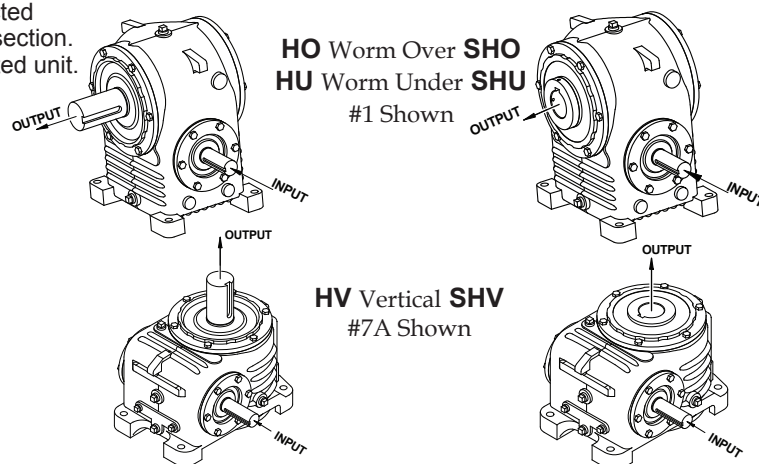
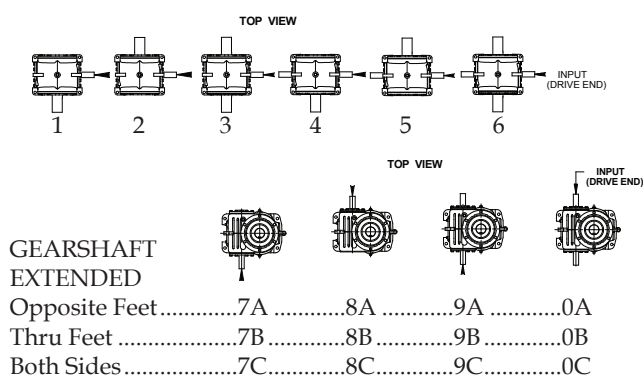
Bore Tolerance: +.002, -.000

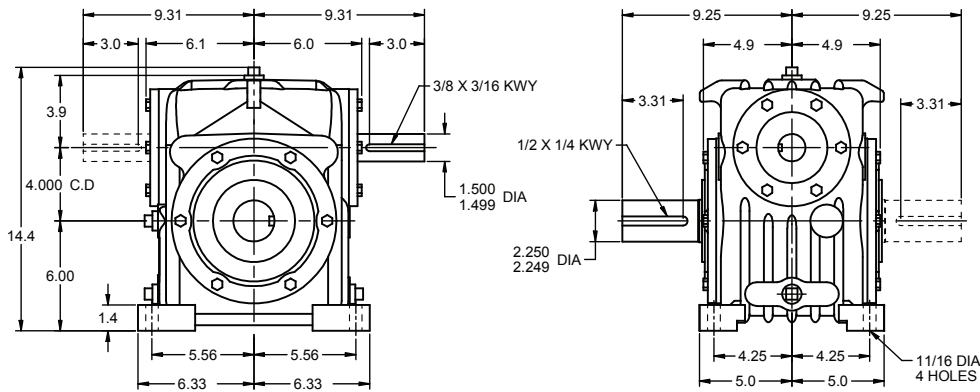
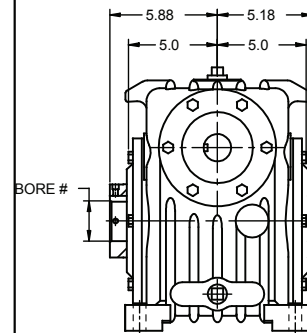
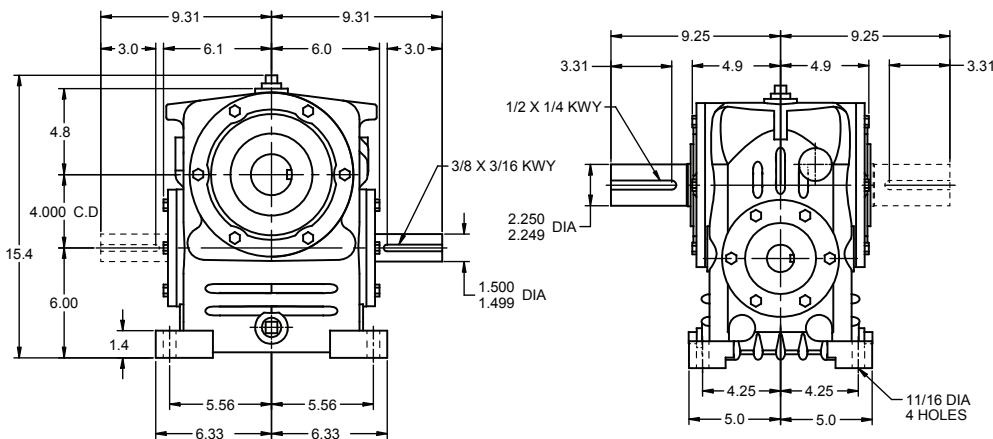
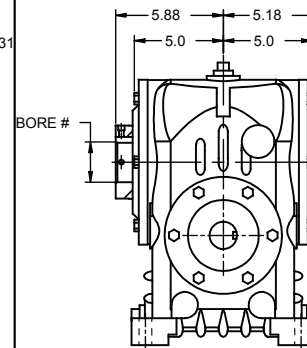
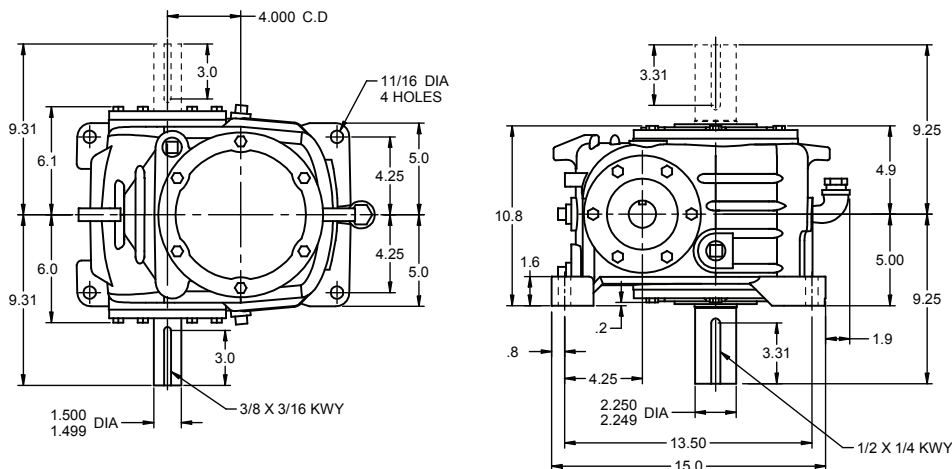
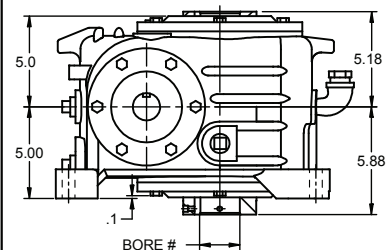
2 set screws at long end of shaft.

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.



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	87	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

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 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

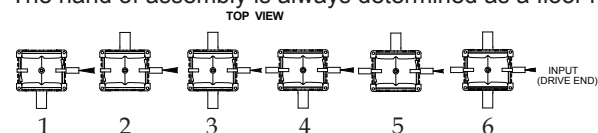
Bore Tolerance: +.003, -.000

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.

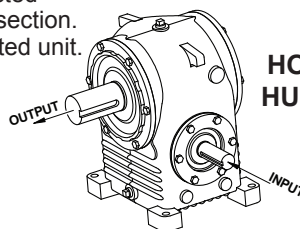
Hand of Assembly Floor Mounted Units

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.

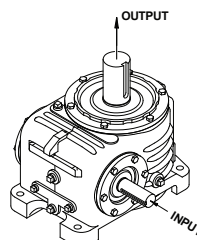
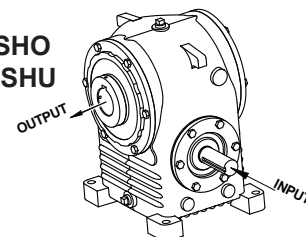


GEARSHAFT EXTENDED

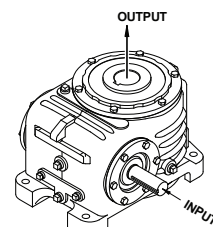
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Thru Feet7B8B9B0B
Both Sides7C8C9C0C

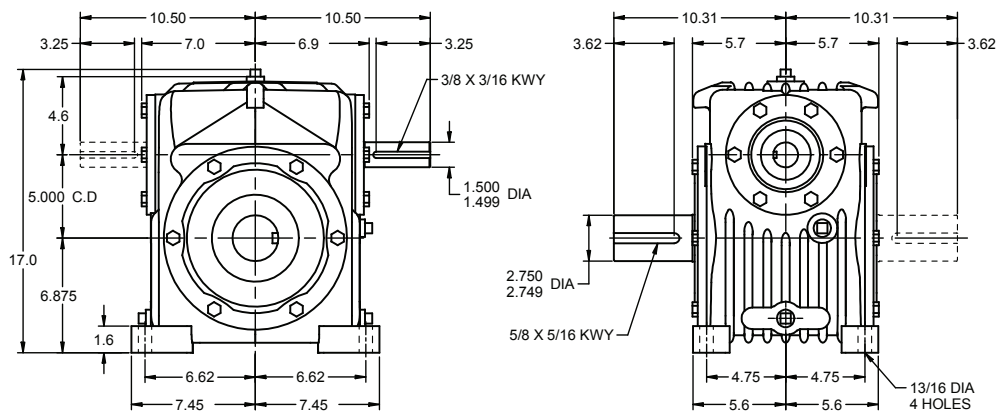
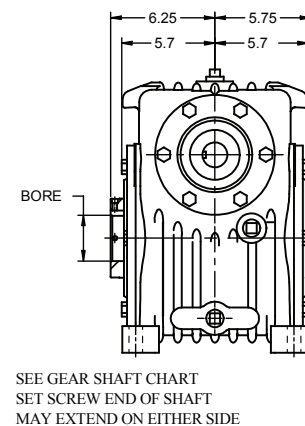
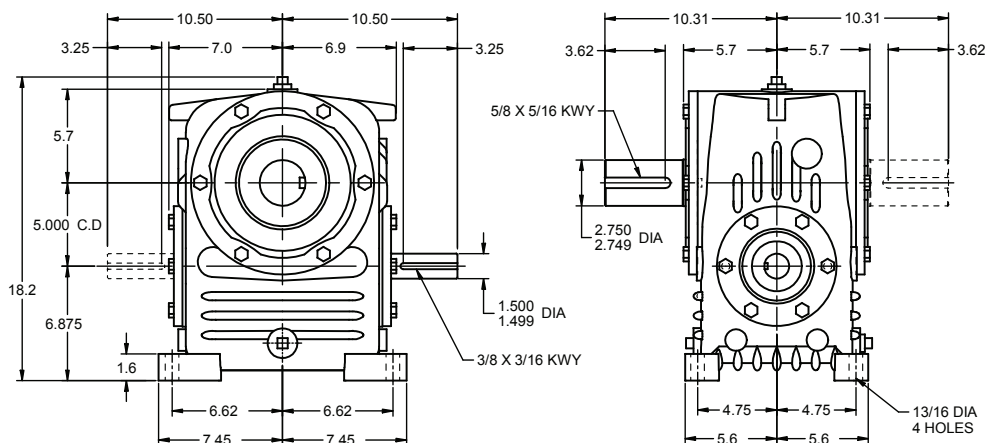
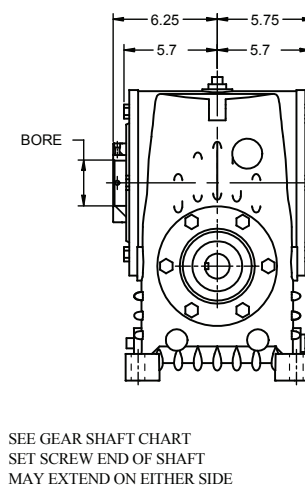
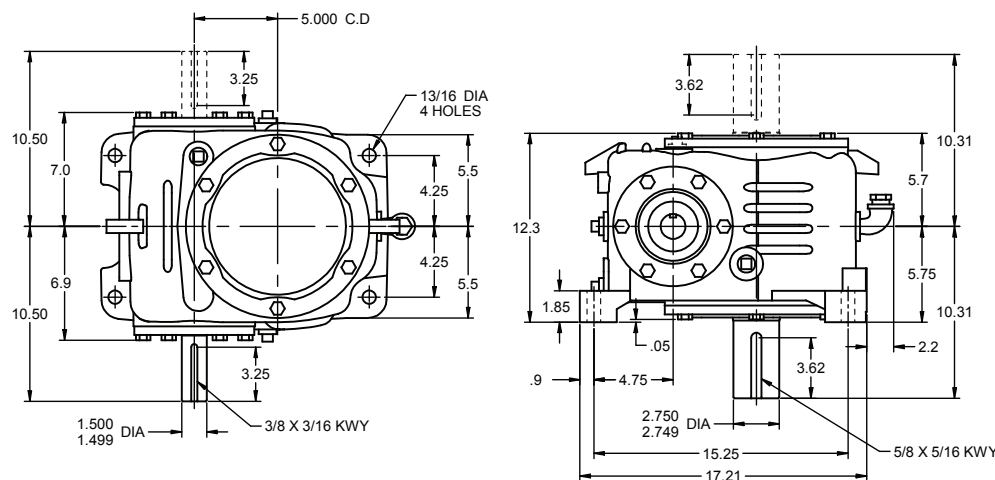
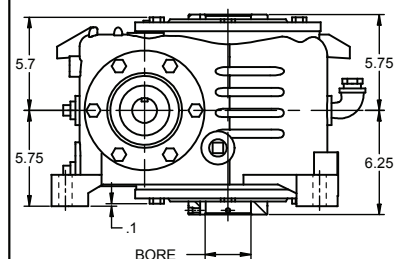


HO Worm Over SHO
HU Worm Under SHU
#1 Shown



HV Vertical SHV
#7A Shown



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**Model HU** Worm Under Gear net wt. 305 lbs**SHU** net wt. 317 lbs**Model HV** Worm Horizontal Gear Shaft Vertical net wt. 295 lbs**SHV** net wt. 307 lbs

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

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

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	86	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

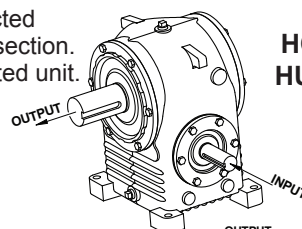
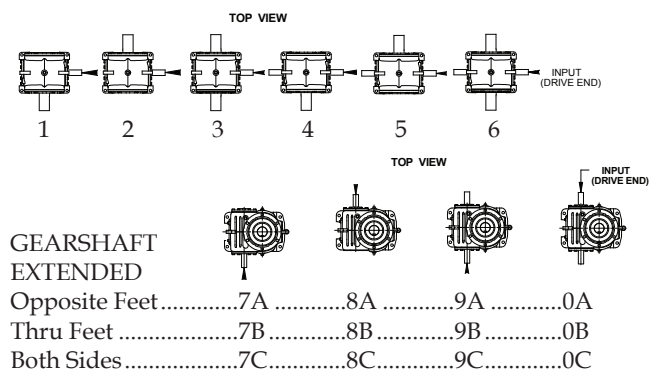
Bore Tolerance: +.003, -.000

2 set screws at long end of shaft.

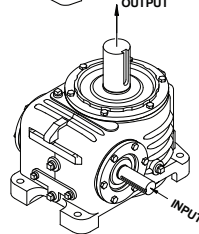
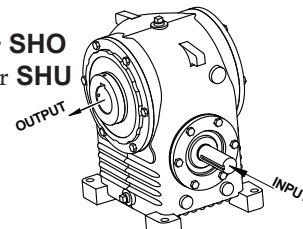
CAUTION: It is the purchaser's or user's responsibility to guard all shafting in accordance with current local, state or federal requirements.

Hand of Assembly Floor Mounted Units

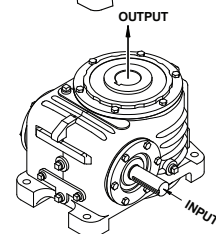
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.

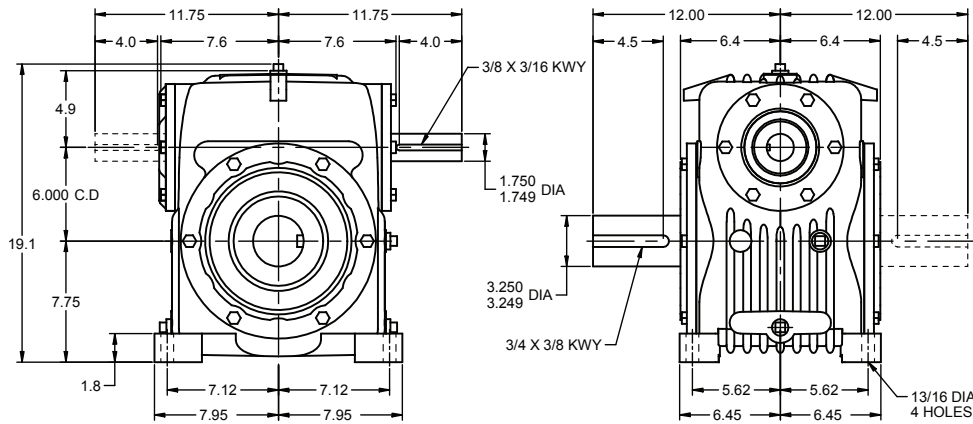
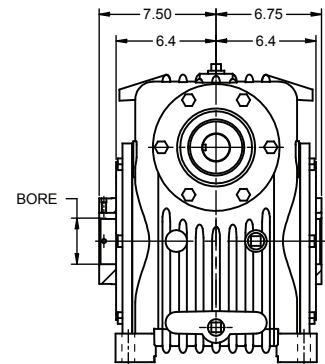
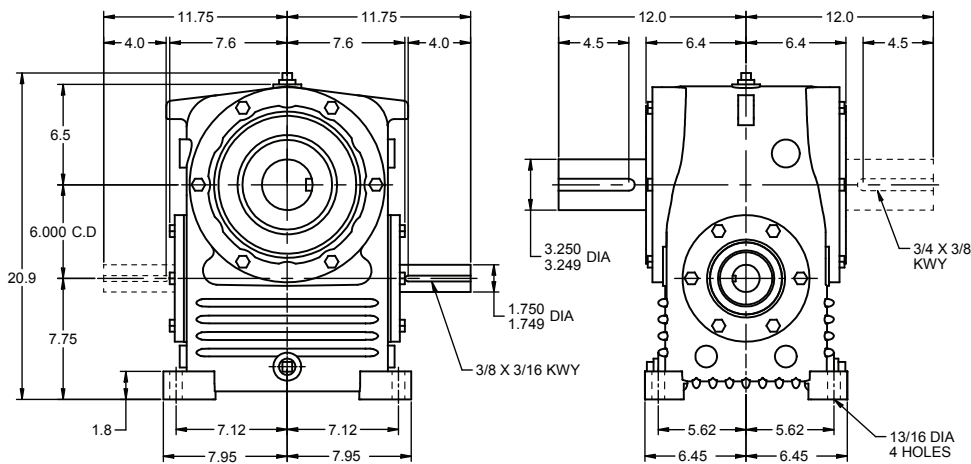
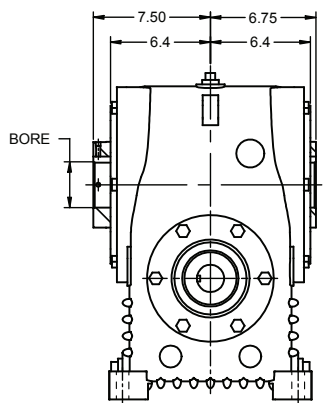
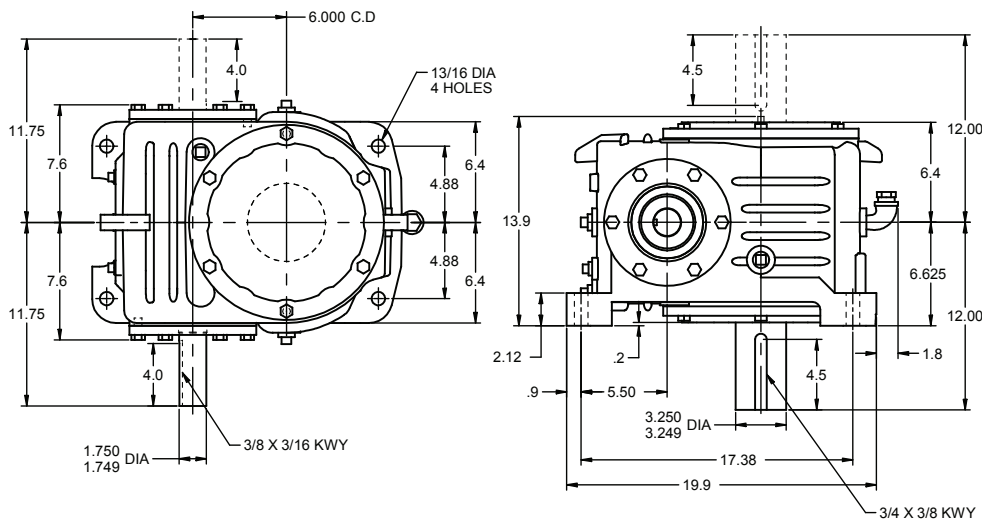
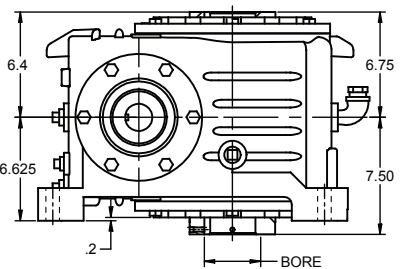


HO Worm Over SHU
HU Worm Under SHU
#1 Shown



HV Vertical SHV
#7A Shown



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 lbsSEE 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 lbsSEE 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 lbsSEE 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	

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

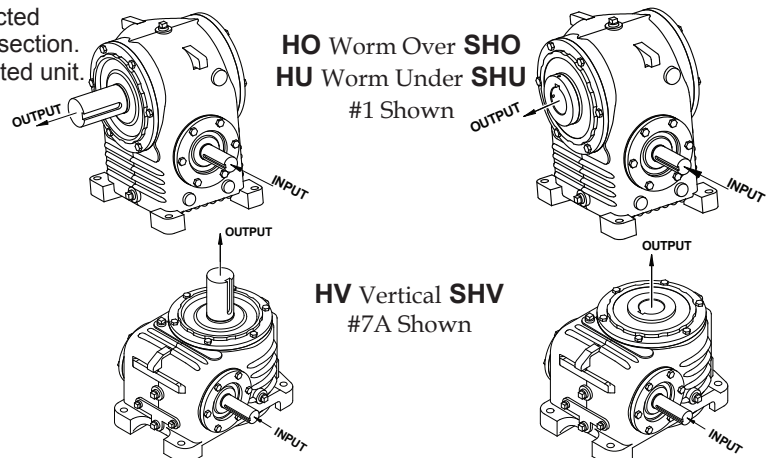
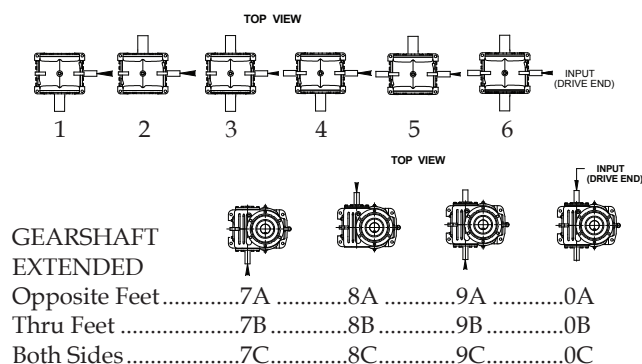
Bore Tolerance: +.003, -.000

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.

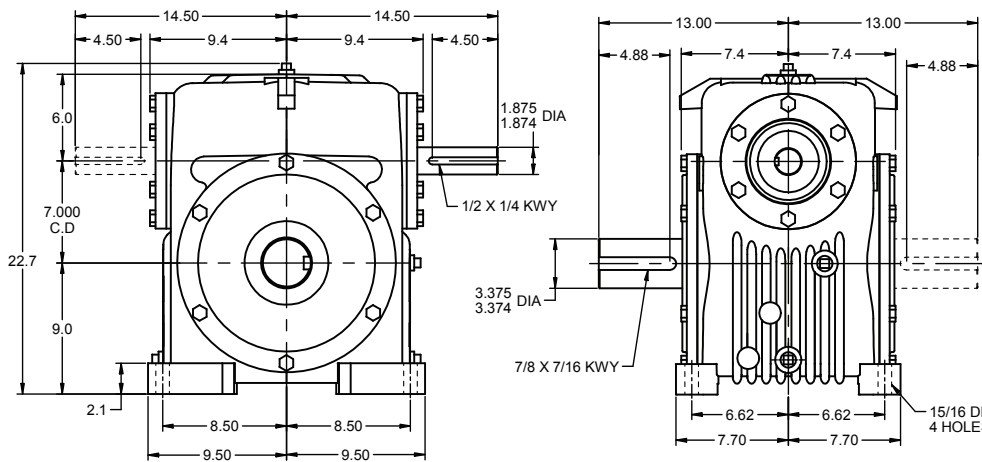
Hand of Assembly Floor Mounted Units

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.



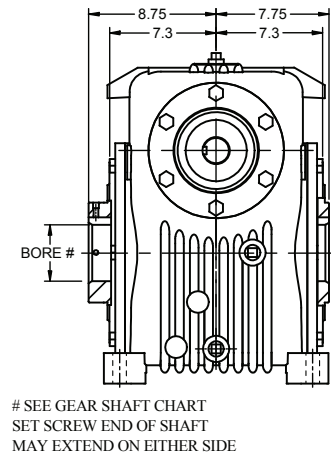
Cone Drive Single Reduction Units - 7.000" C.D. Size 70 Solid Shaft

Model HO Worm Over Gear net wt. 535 lbs

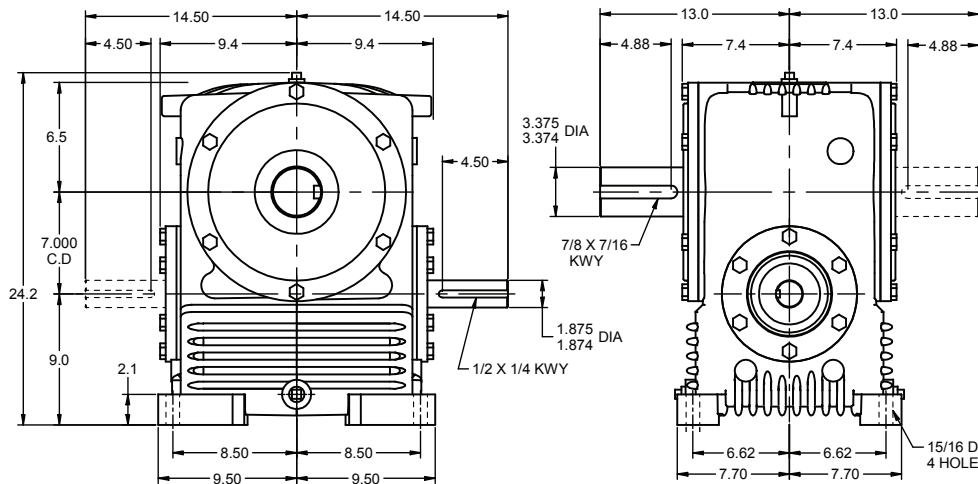


Hollow Shaft

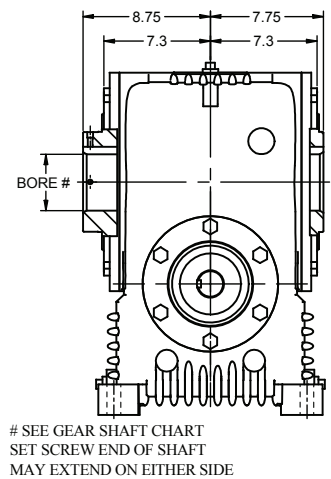
SHO net wt. 560 lbs



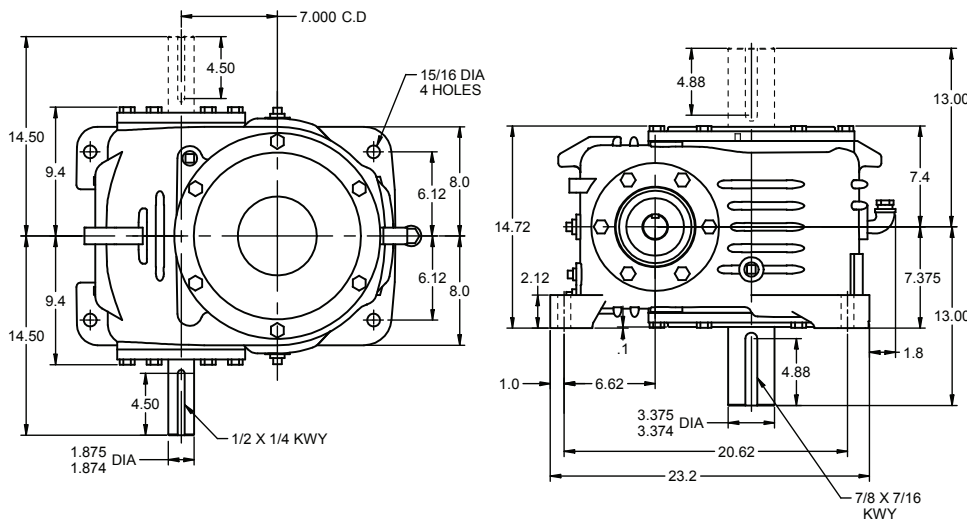
Model HU Worm Under Gear net wt. 605 lbs



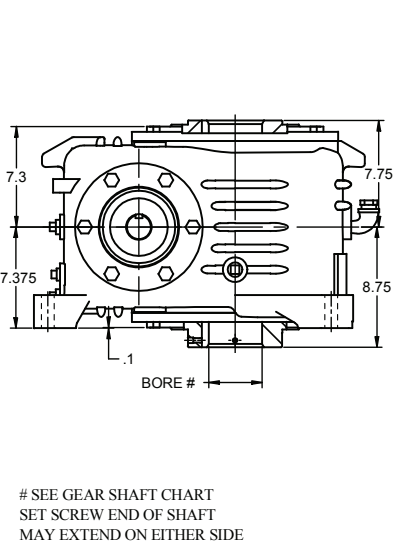
SHU net wt. 630 lbs



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

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.

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

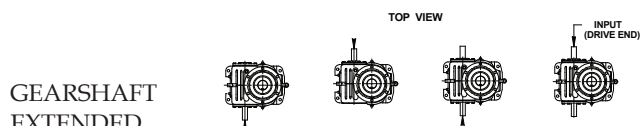
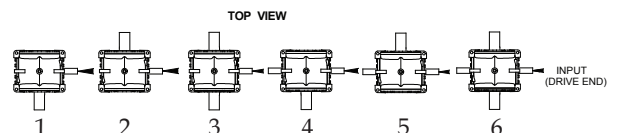
Bore Tolerance: +.003, -.000

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.

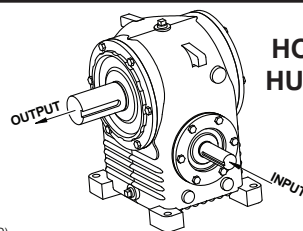
Hand of Assembly Floor Mounted Units

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.

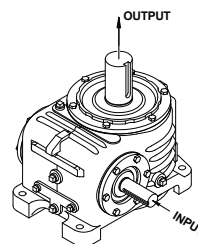
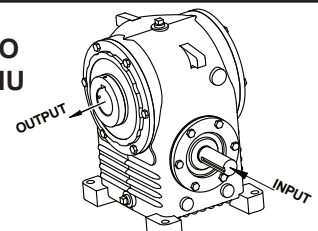


GEARSHAFT
EXTENDED

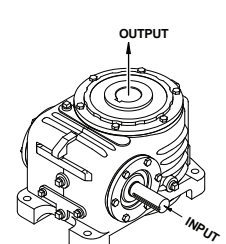
Opposite Feet.....7A.....8A.....9A.....0A
Thru Feet.....7B.....8B.....9B.....0B
Both Sides.....7C.....8C.....9C.....0C

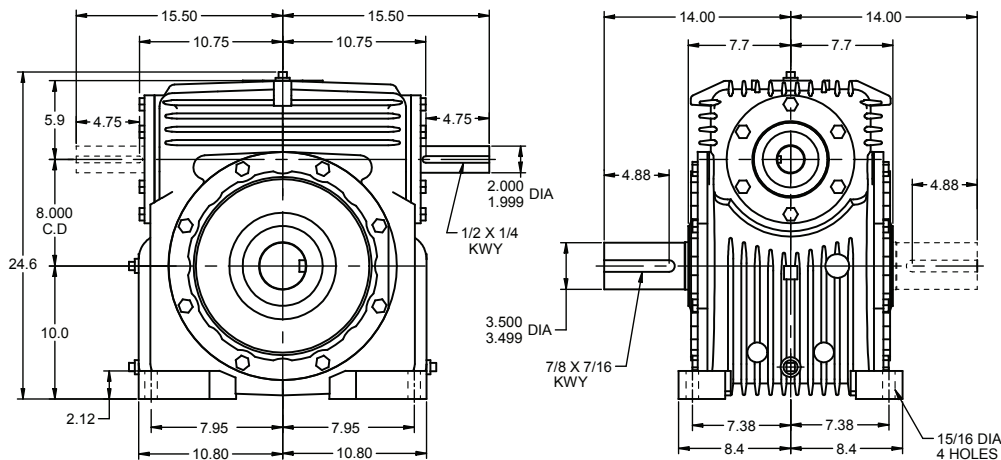
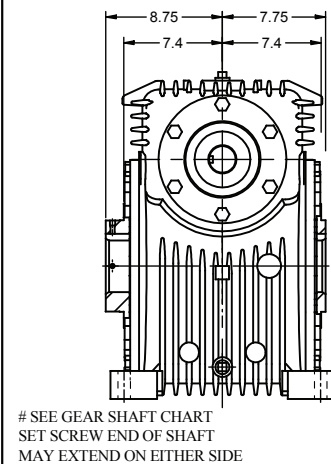
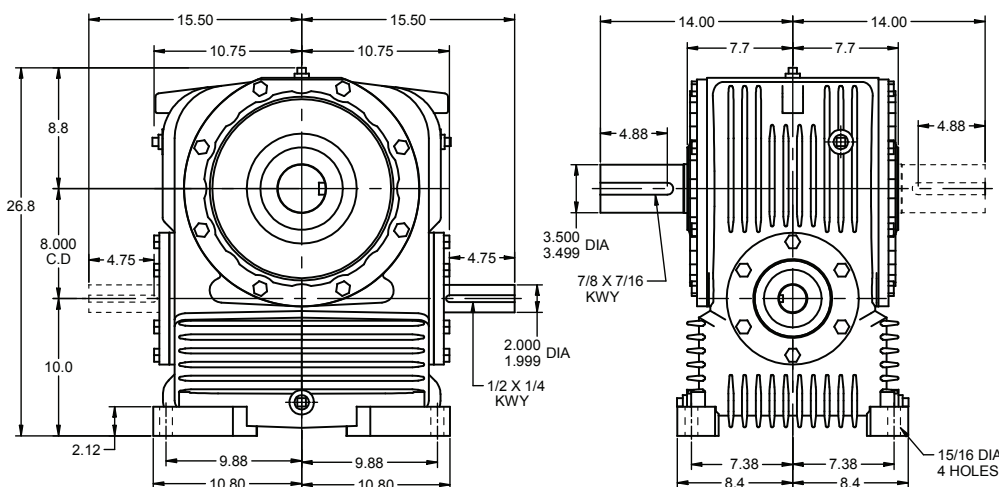
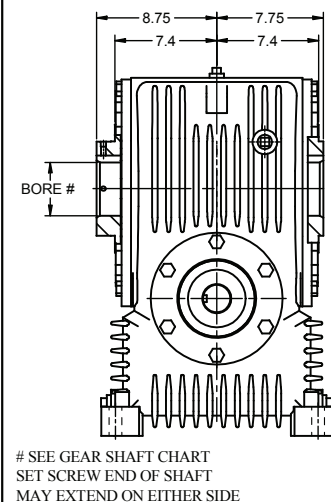
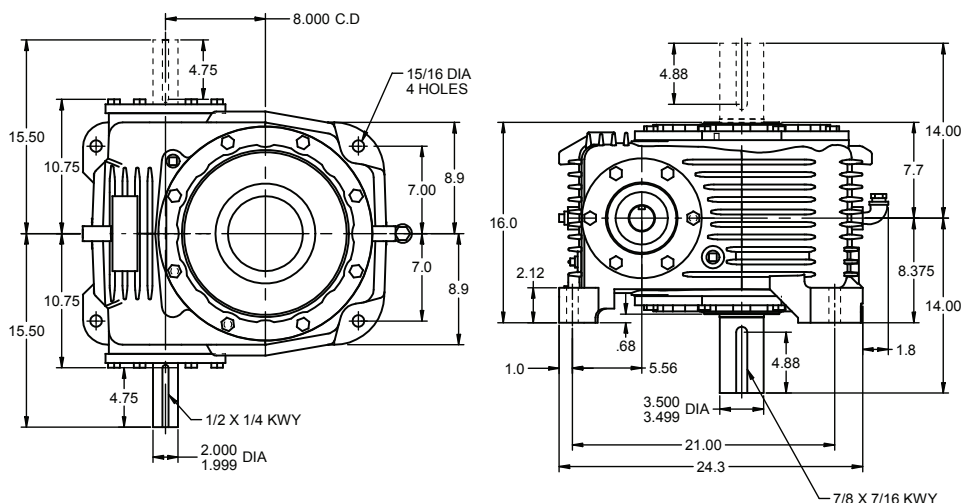
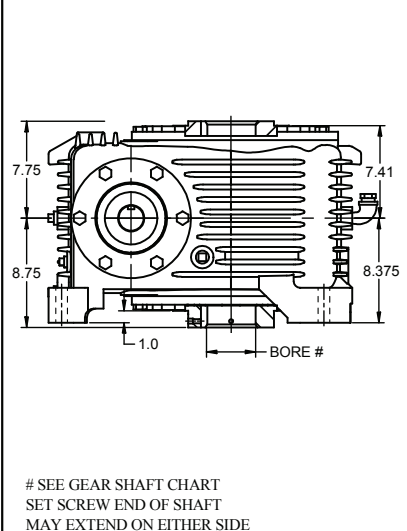


HO Worm Over SHO
HU Worm Under SHU
#1 Shown



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****Model HU Worm Under Gear net wt. 880 lbs****SHU net wt. 910 lbs****Model HV Worm Horizontal Gear Shaft Vertical net wt. 725 lbs****SHV net wt. 755 lbs**

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)

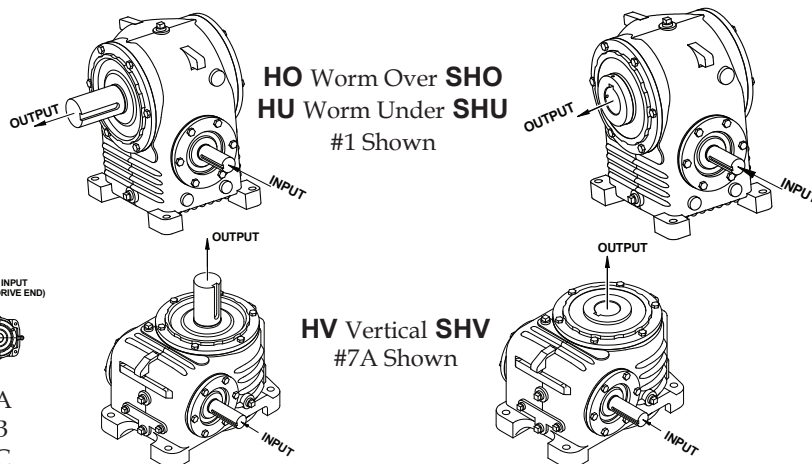
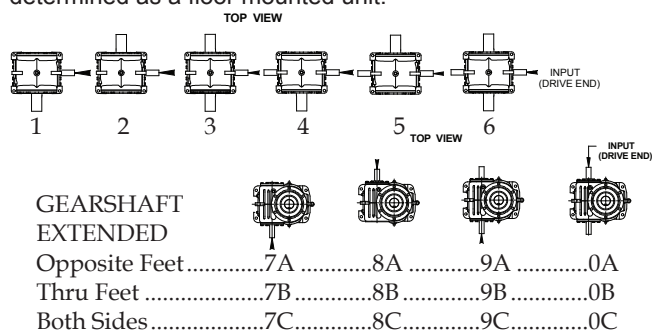
Th.HP = Thermal Input Power - No Fan

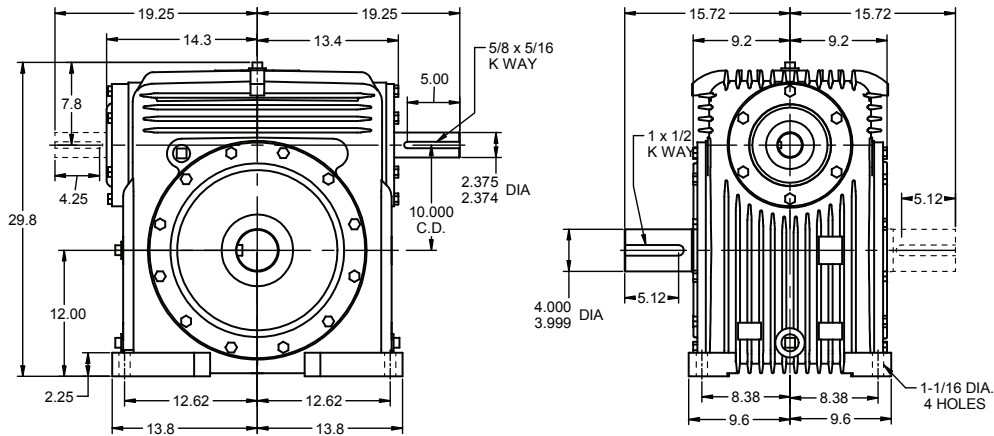
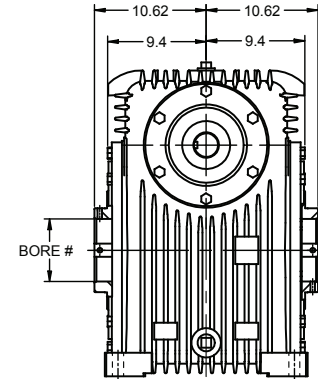
O.T. = Output Torque (In. Lb.)

Th.HP Fan = Thermal Input Power - Fan

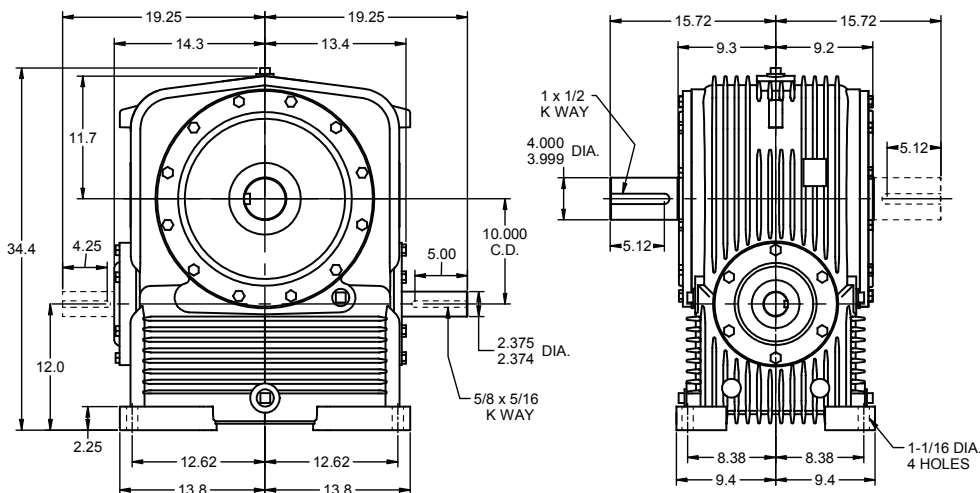
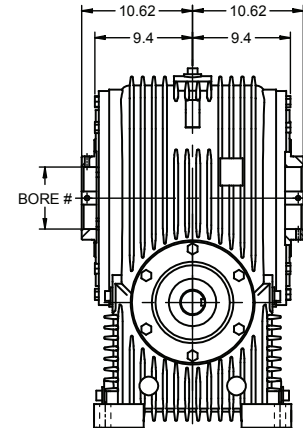
Hand of Assembly Floor Mounted Units

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.

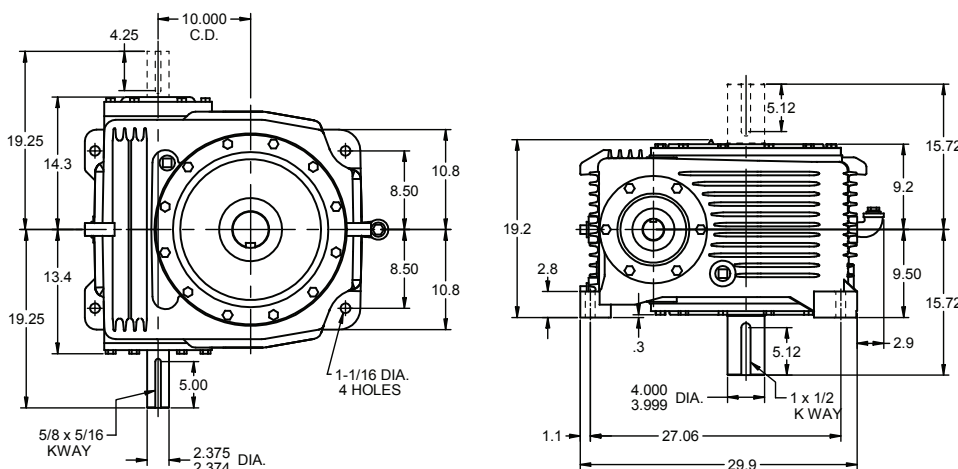
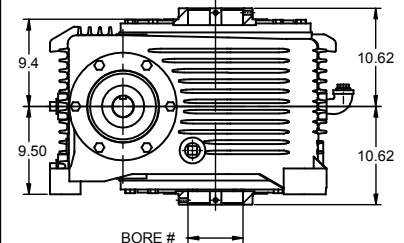


Cone Drive Single Reduction Units - 10.000" C.D.
Size 100 Solid Shaft**Model HO** Worm Over Gear net wt. 1360 lbs.**Hollow Shaft****SHO** net wt. 1435 lbs.

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	136.46	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)

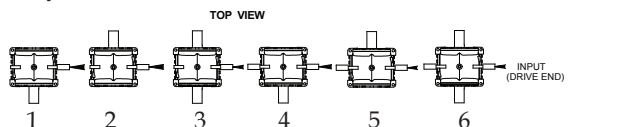
Th.HP = Thermal Input Power - No Fan

O.T. = Output Torque (In. Lb.)

Th.HP Fan = Thermal Input Power - Fan

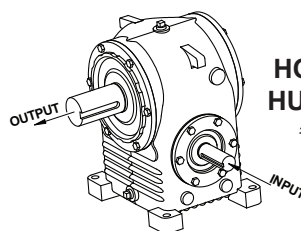
Hand of Assembly Floor Mounted Units

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.



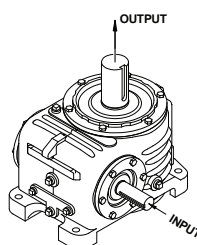
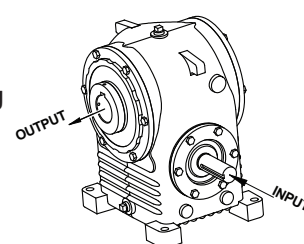
GEARSHAFT EXTENDED

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



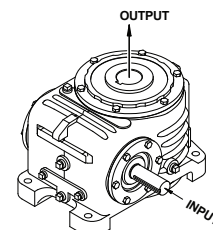
HO Worm Over SHO HU Worm Under SHU

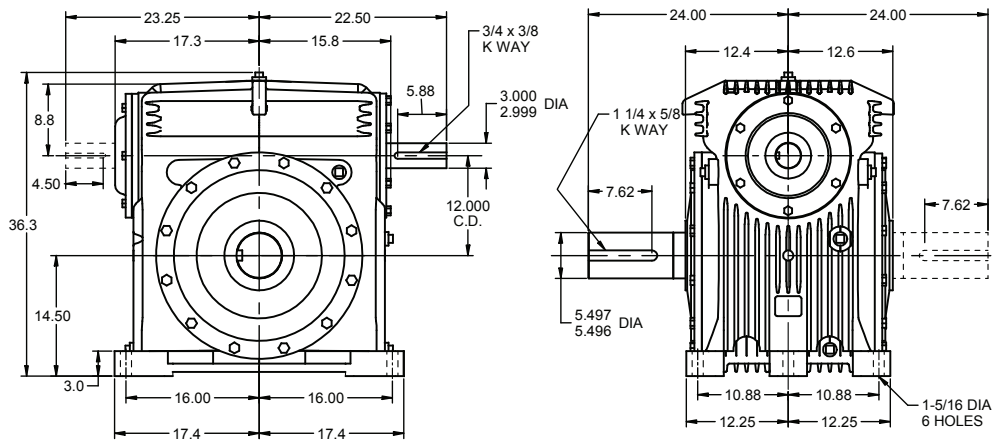
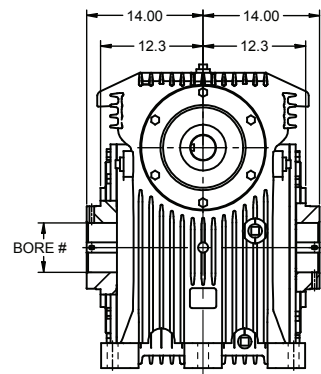
#3 Shown at right
#1 Shown at left



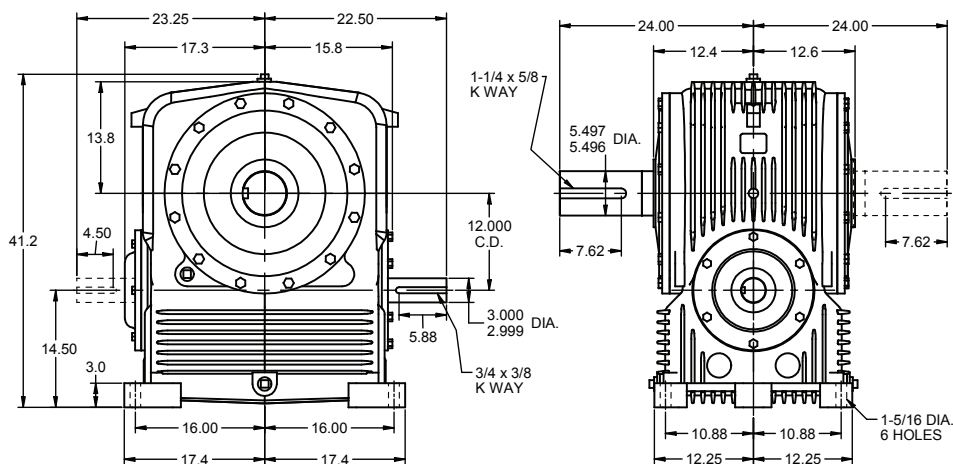
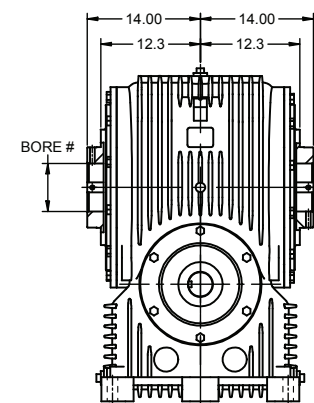
HV Vertical SHV

#7A Shown at left
#7C Shown at right

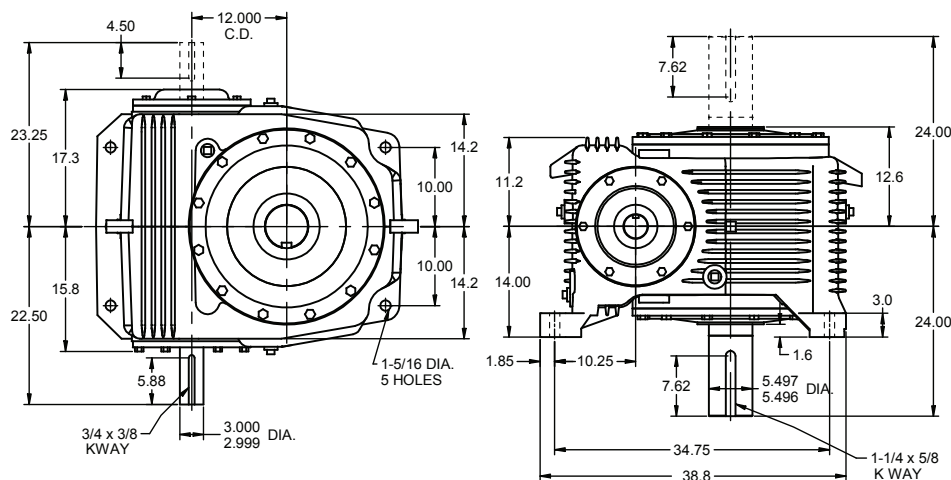
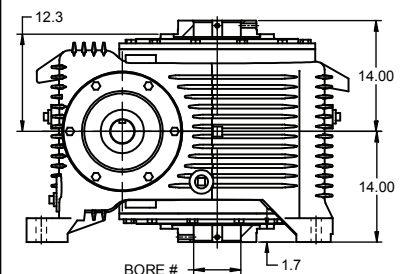


Cone Drive Single Reduction Units - 12.000" C.D.
Size 120 Solid Shaft**Model HO** Worm Over Gear net wt. 2635 lbs.**Hollow Shaft****SHO** net wt. 2635 lbs.

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	GEAR SHAFT 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)

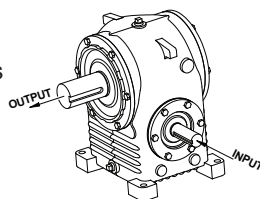
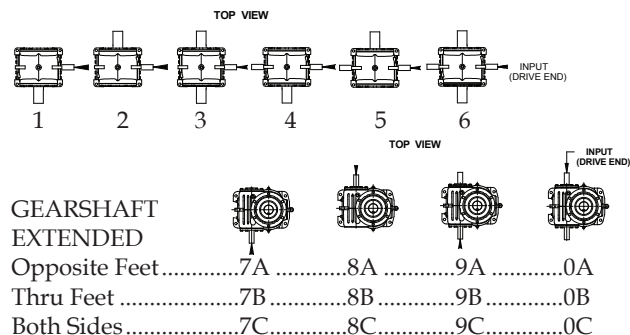
Th. HP = Thermal Input Power - No Fan

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.

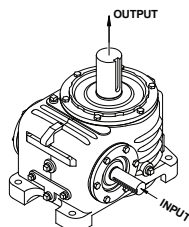
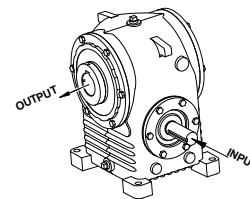


HO Worm Over SHO

Worm Under SHU

#3 Shown at right

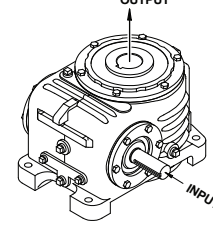
#1 Shown at left



HV Vertical SHV

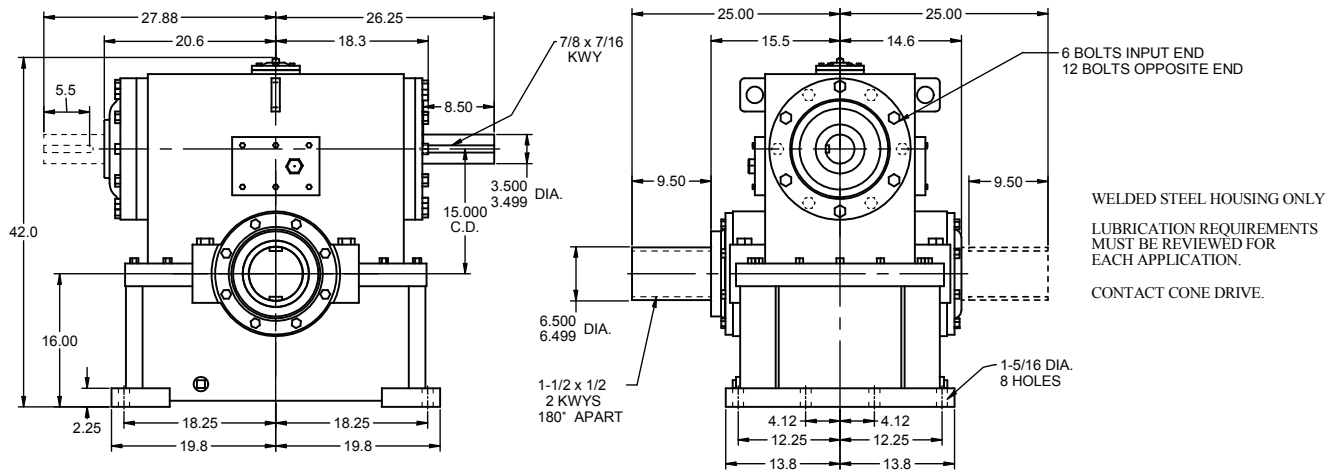
#7A Shown at left

#7C Shown at right

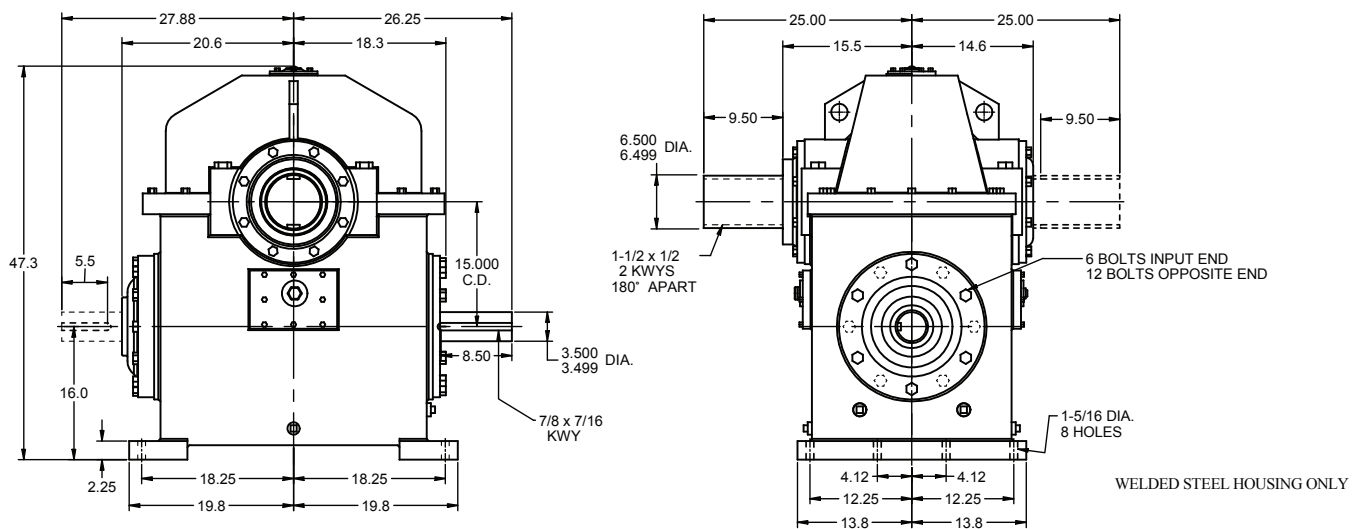


Cone Drive Single Reduction Units - 15.000" C.D. Size 150 Solid Shaft

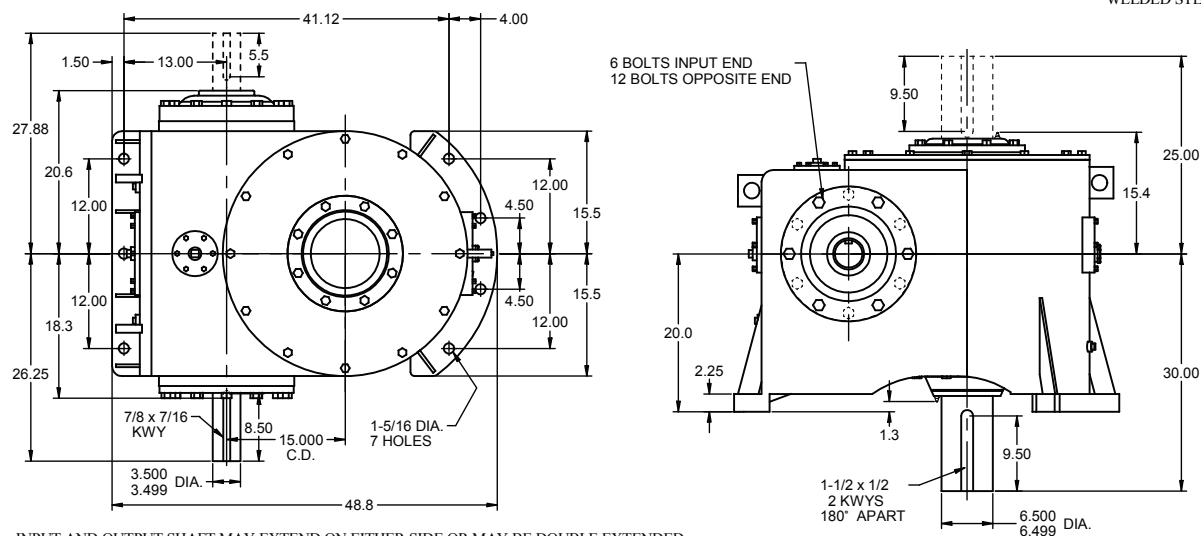
Model HO Worm Over Gear net wt. 4000 lbs



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

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.

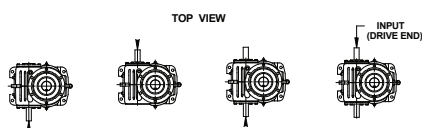
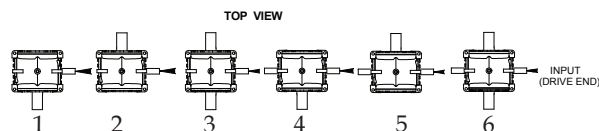
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence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

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

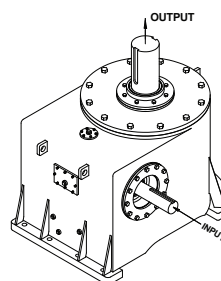
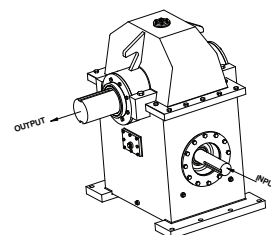
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



GEARSHAFT EXTENDED

Opposite Feet.....7A.....8A.....9A.....0A
Thru Feet.....7B.....8B.....9B.....0B
Both Sides.....7C.....8C.....9C.....0C

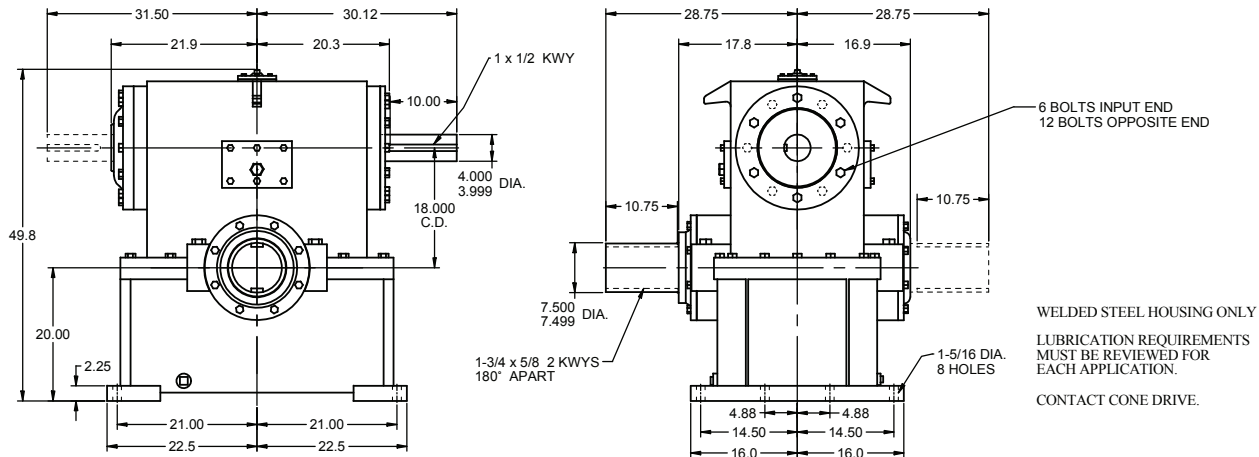
HO Worm Over
HU Worm Under
#1 Shown



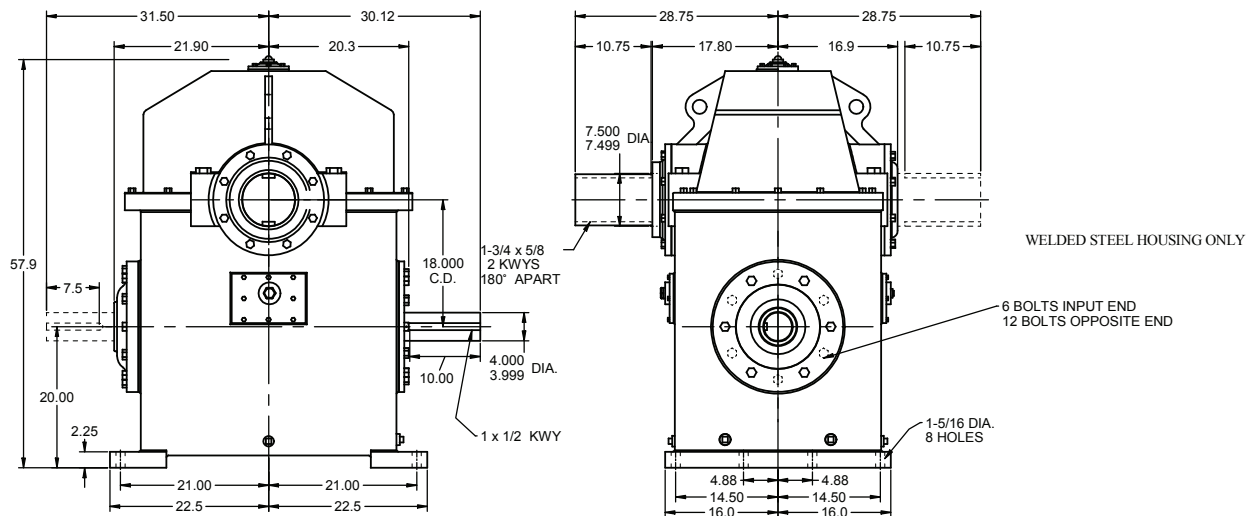
HV Vertical
#7A Shown

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

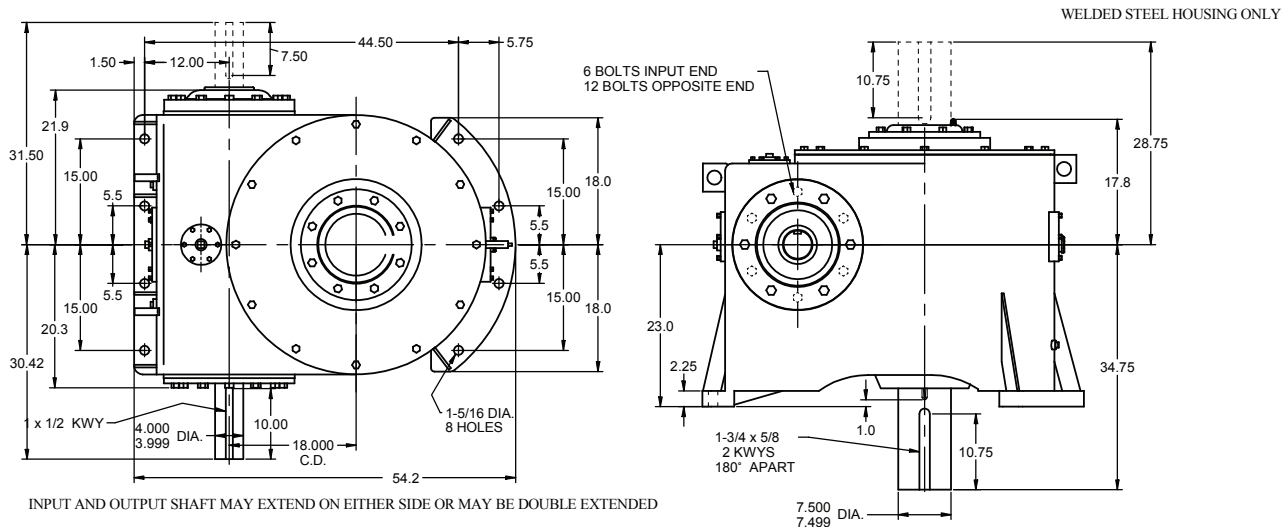
Model HO Worm Over Gear net wt. 5500 lbs



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

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.

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.

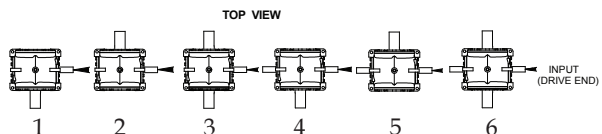
Refer to page 26 for lubrication information.

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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

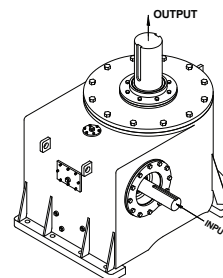
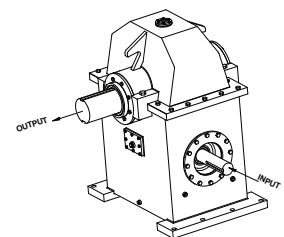
When ordering, specify the assembly number required, selected from diagrams. Ceiling and wall mounted units follow in this section. The hand of assembly is always determined as a floor mounted unit.



GEARSHAFT EXTENDED

Opposite Feet.....7A.....8A.....9A.....0A
Thru Feet.....7B.....8B.....9B.....0B
Both Sides.....7C.....8C.....9C.....0C

HO Worm Over
HU Worm Under
#1 Shown

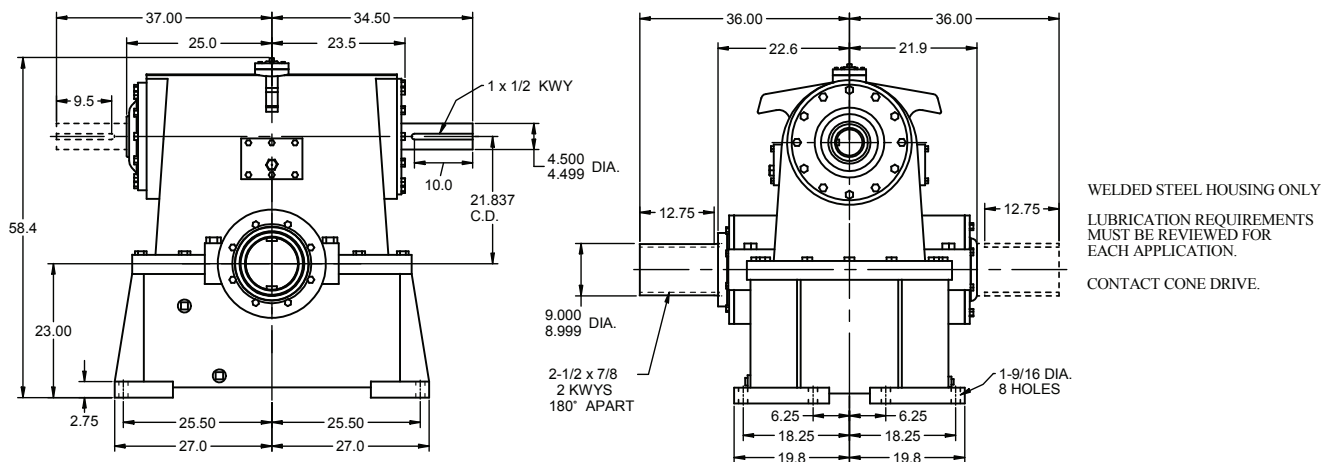


HV Vertical
#7A Shown

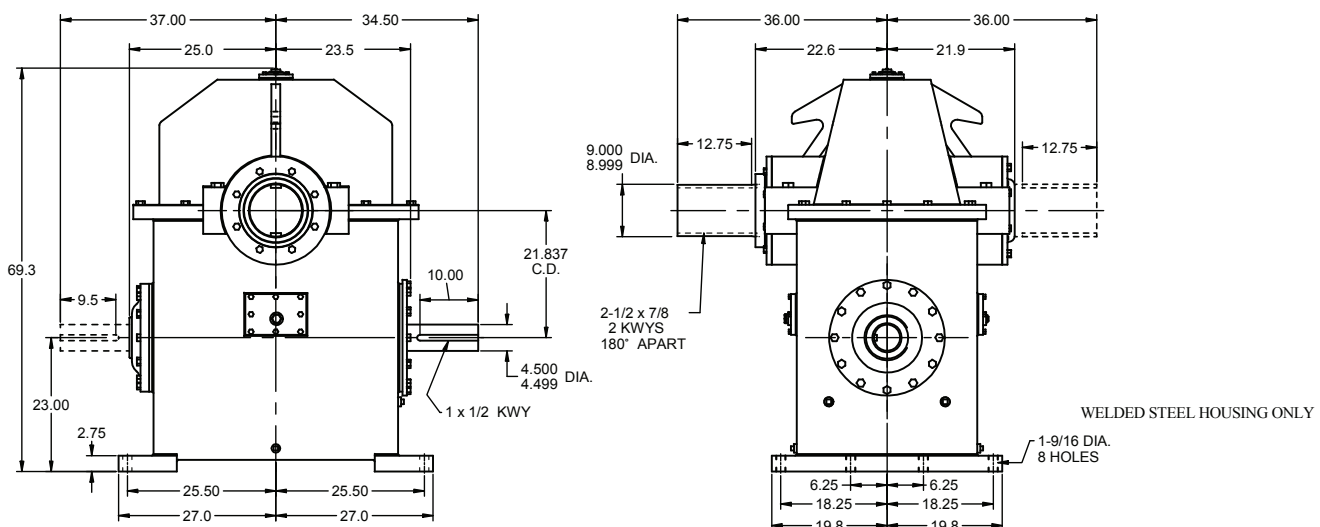
Cone Drive Single Reduction Units - 21.837" C.D.

Size 220 Solid Shaft

Model HO Worm Over Gear net wt. 8700 lbs

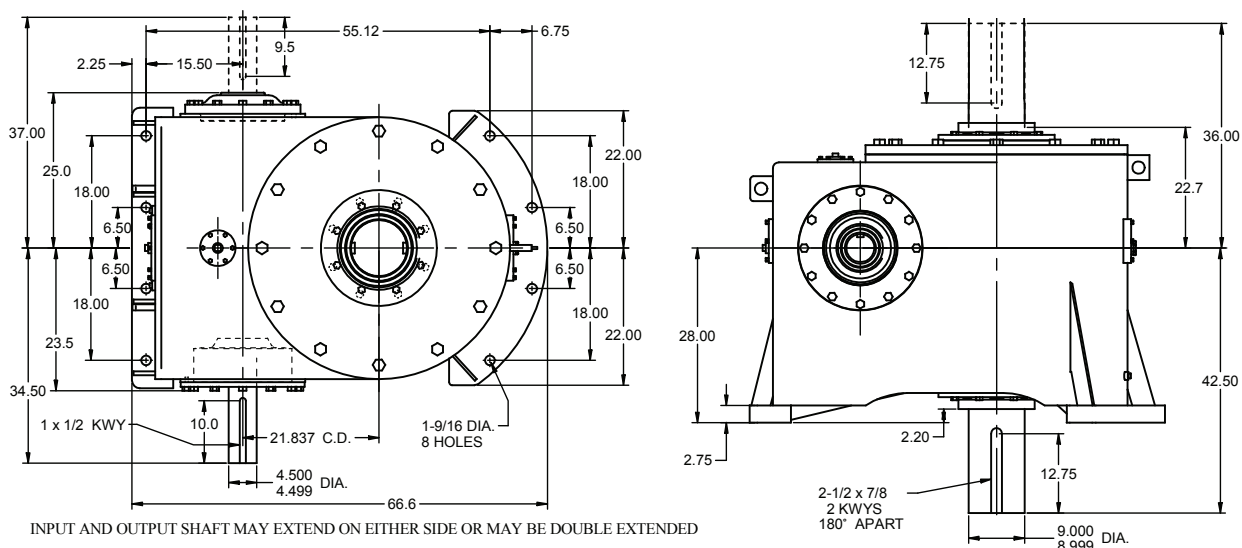


Model HU Worm Under Gear net wt. 8700 lbs



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

WELDED STEEL HOUSING ONLY



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	1262000	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.

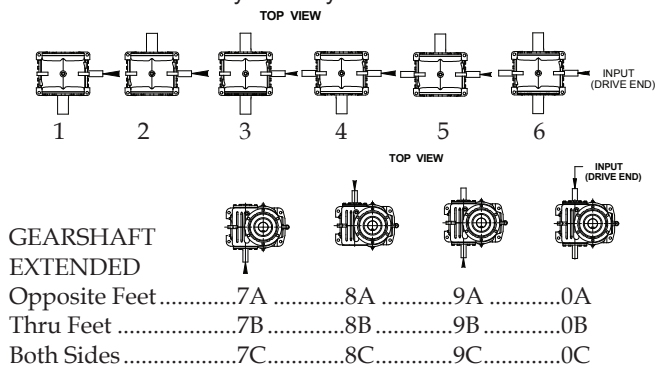
Key:

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

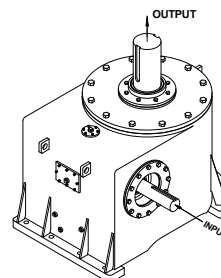
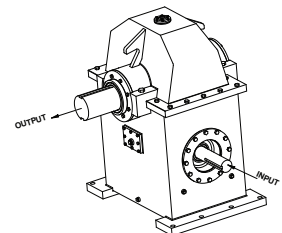
Ratings to the right of heavy line require pressure lubrication. Contact Cone Drive.

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.



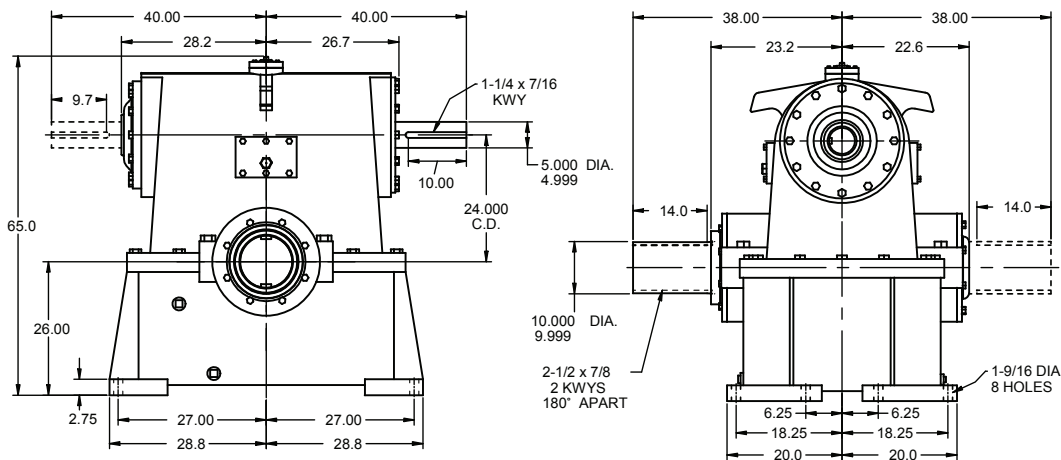
HO Worm Over
HU Worm Under
#1 Shown



HV Vertical
#7A Shown

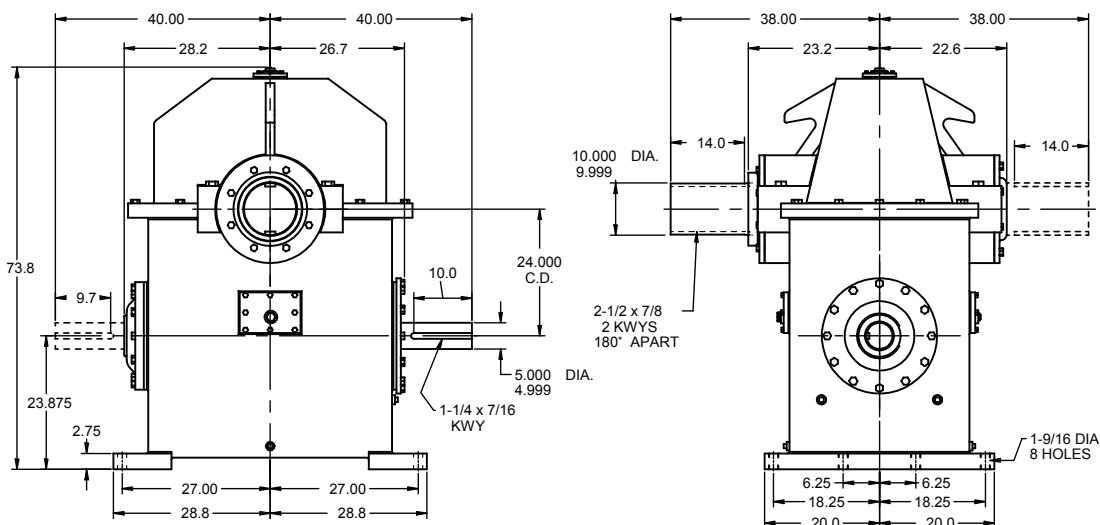
Cone Drive Single Reduction Units - 24.000" C.D. Size 240 Solid Shaft

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.

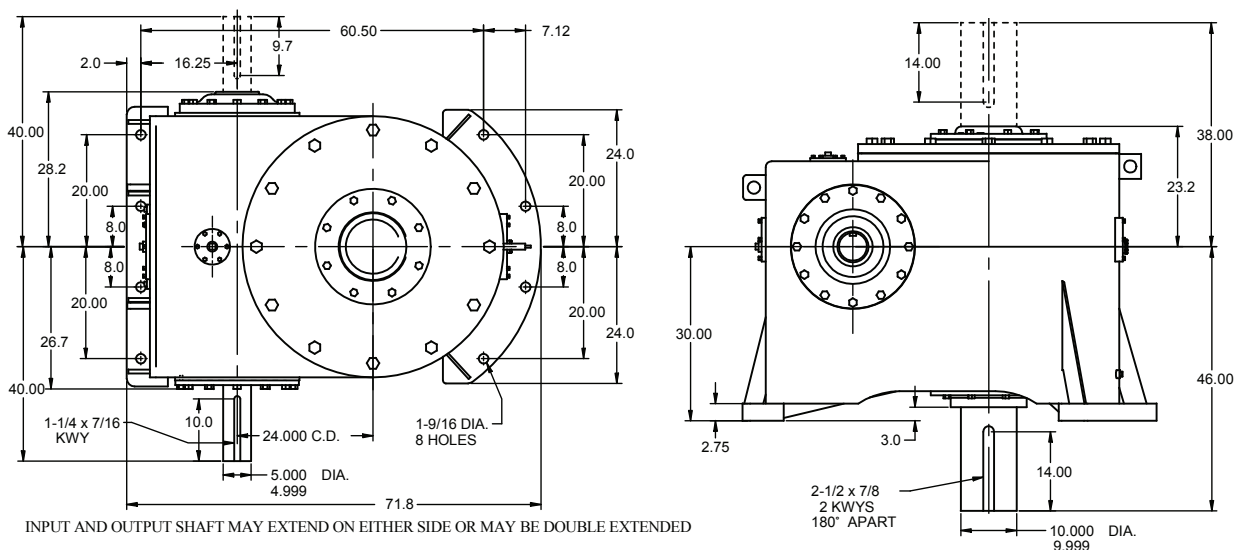
Model HU Worm Under Gear net wt. 11,000 lbs



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

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.

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.

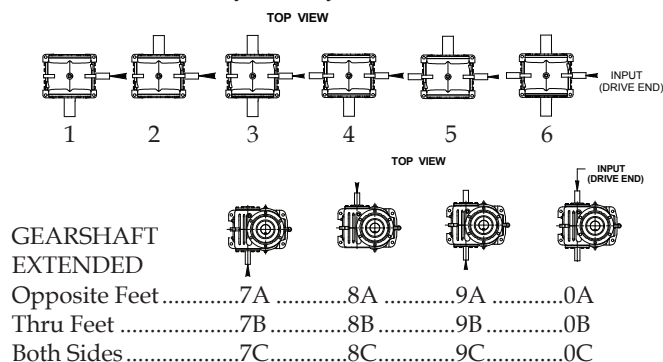
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CAUTION:

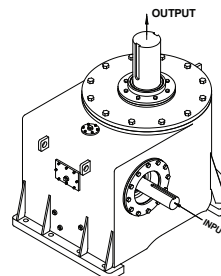
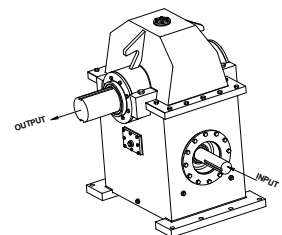
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Hand of Assembly Floor Mounted Units

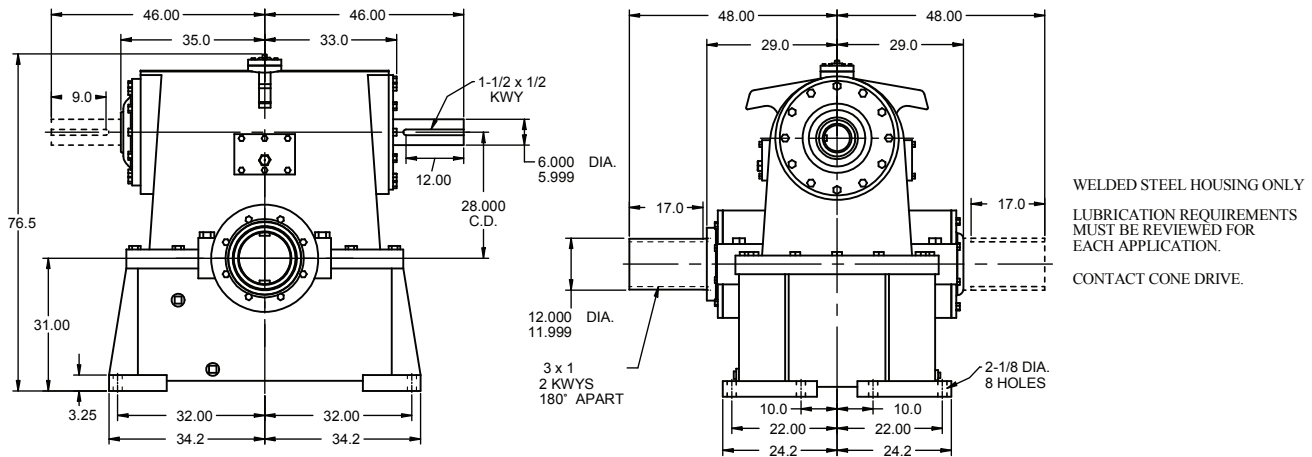
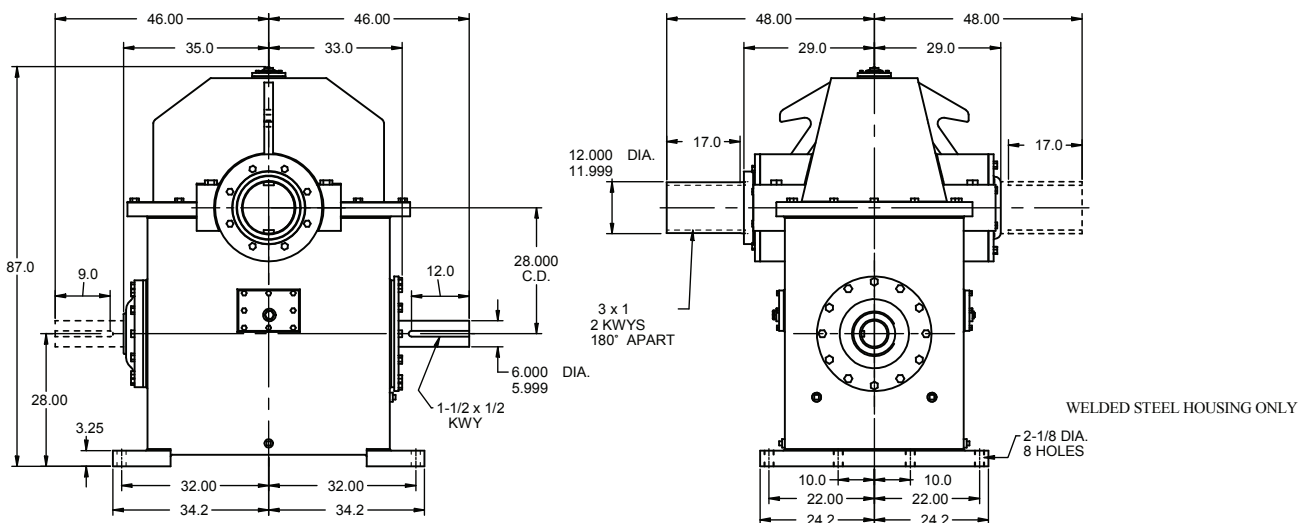
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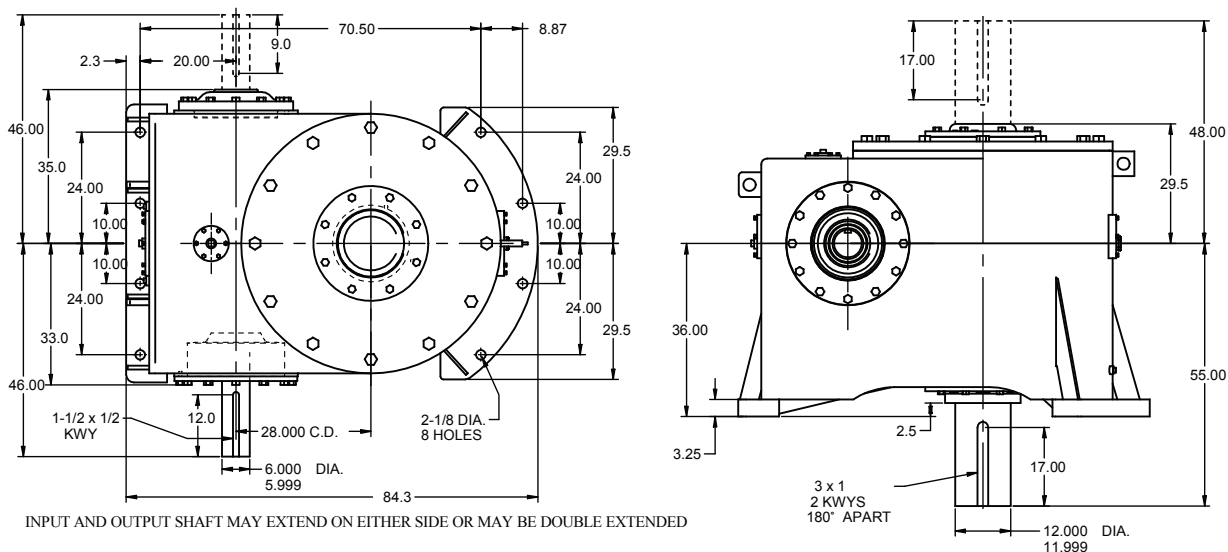
HO Worm Over
HU Worm Under
#1 Shown



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.

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.

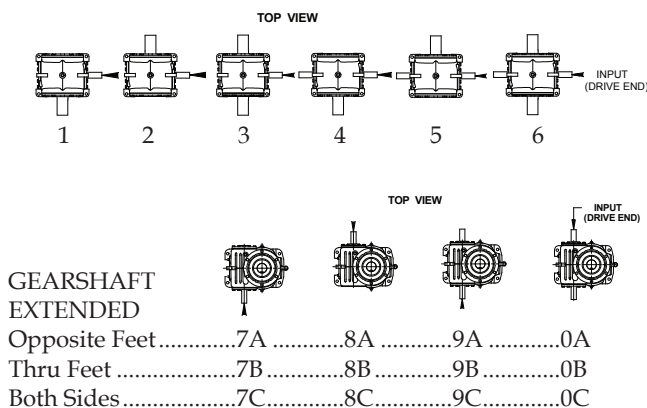
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CAUTION:

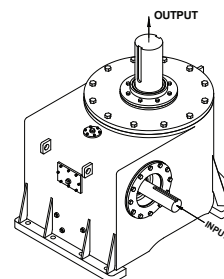
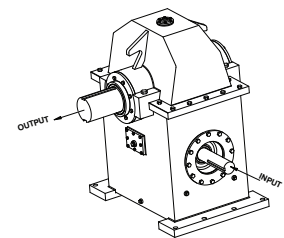
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Hand of Assembly Floor Mounted Units

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.



HO Worm Over
HU Worm Under
#1 Shown



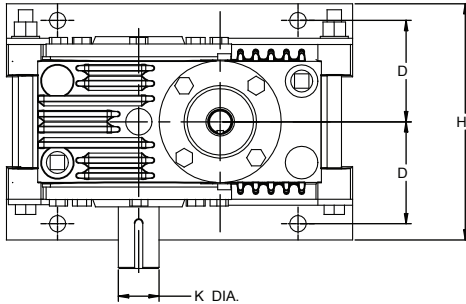
HV Vertical
#7A Shown

Cone Drive Single Reduction Units

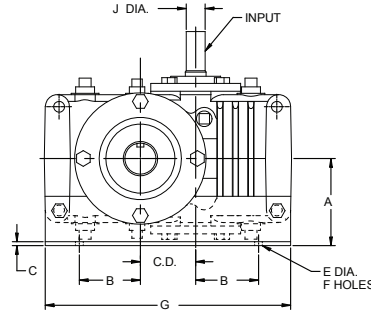
Vertical Worm Reducer - Size 20 to 120

Shown

Model VH



Model SVH Hollow Shaft

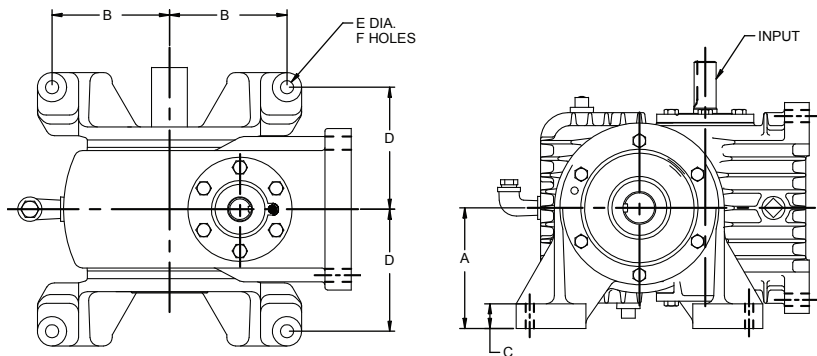


STANDARD UNIT
WITH SPECIAL FOOT
ANGLES DETAIL -
13VR & 13VL.

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.

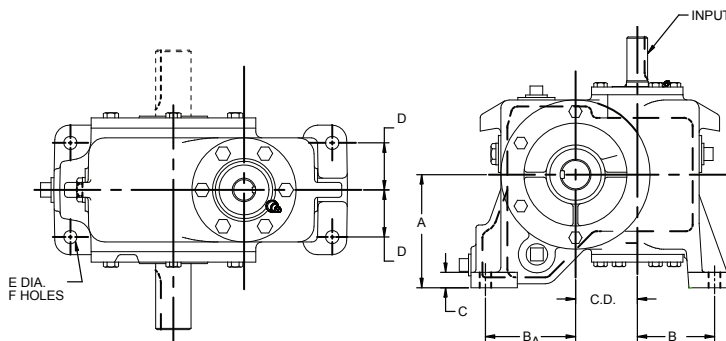
For dimensions not shown see this section for reducer and foot brackets.

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.

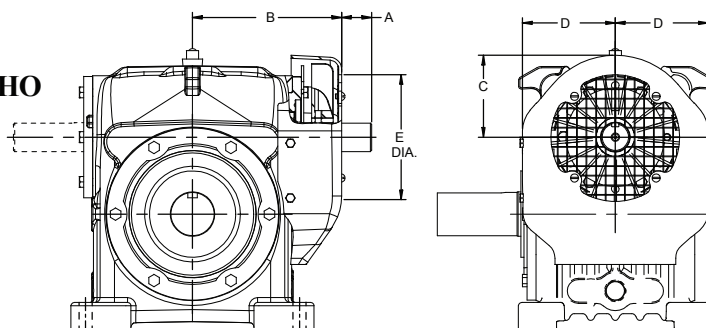
Ceiling and wall mounted units follow in this section.

Size	C.D.	A	B	B _A	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**



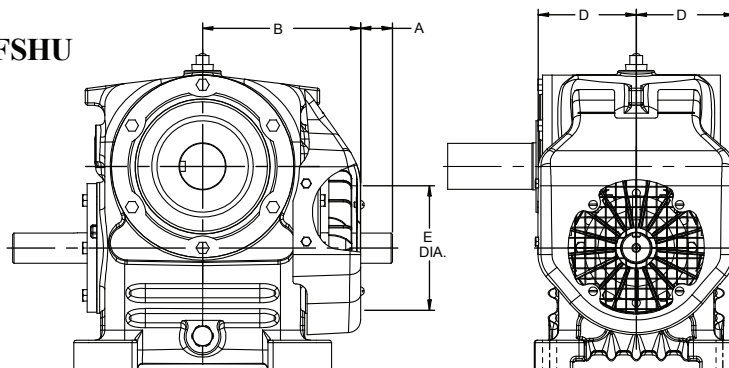
Size	A	B	C	D	E
30	0.89	5.80	3.18	3.18	4.94
35	1.31	6.44	3.75	3.75	4.94
40	1.69	7.62	4.68	4.87	4.75
50	1.88	8.62	4.87	5.75	4.75
60	2.30	9.46	6.00	6.50	6.50
70	3.00	11.50	7.00	7.31	6.50
80	2.62	12.87	7.43	7.87	10.50
100	3.62	15.62	8.43	9.50	10.50

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**



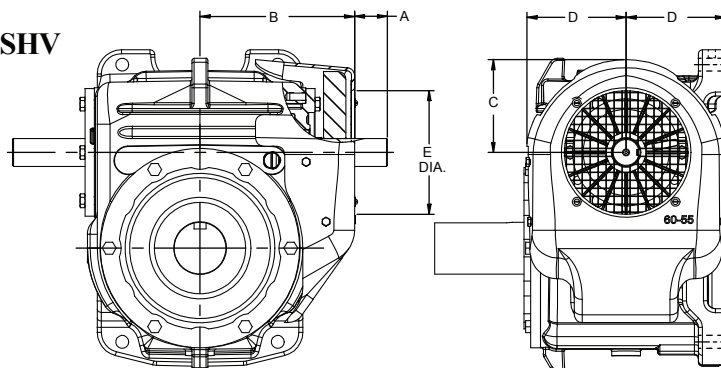
Size	A	B	D	E
30	0.89	5.80	3.75	4.94
35	1.50	6.25	4.38	4.50
40	1.69	7.62	5.25	4.75
50	1.88	8.62	6.00	4.75
60	2.30	9.46	6.75	6.50
70	3.00	11.50	7.75	6.50
80	2.37	13.12	8.50	10.50
100	3.37	15.87	9.00	10.50

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**



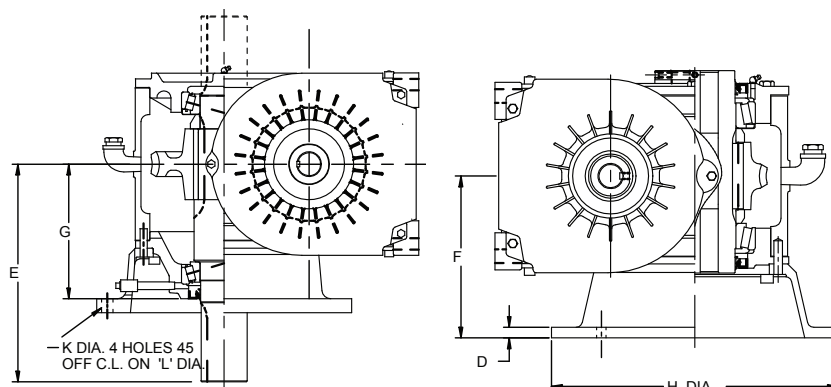
Size	A	B	C	D	E
30	0.89	6.69	3.18	3.18	4.94
35	1.50	6.75	4.25	4.25	4.25
40	1.69	7.62	4.68	4.87	4.75
50	1.88	8.62	4.87	5.75	4.75
60	2.30	9.46	6.00	6.50	6.50
70	3.00	11.50	7.00	7.31	6.50
80	2.62	13.20	7.43	7.87	10.50
100	3.62	15.62	8.43	9.50	10.50

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.

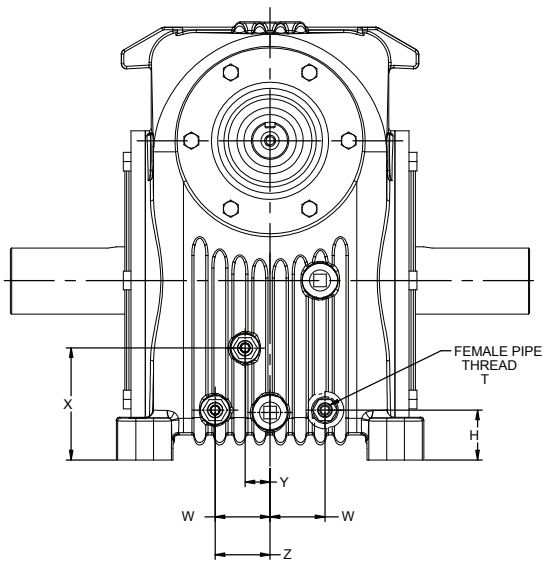
Important: Do not restrict air intake flow to fan when attaching coupling, clutch or sheaves to input shaft.

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

Cone Drive Water Cooling for Single Reduction Units

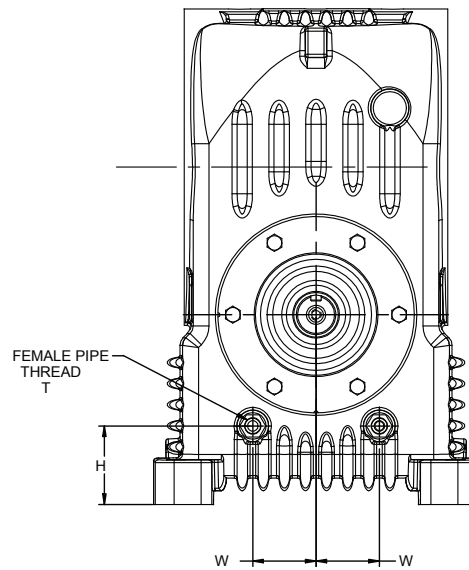
Inlet and Outlet Locations

WHO and WSHO



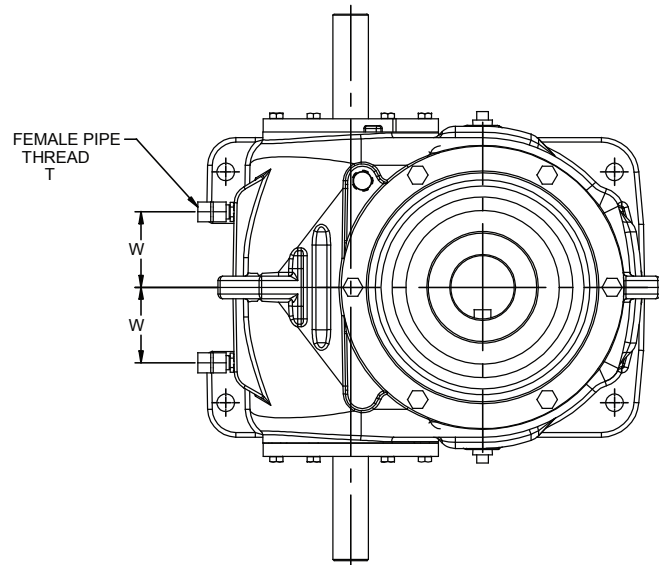
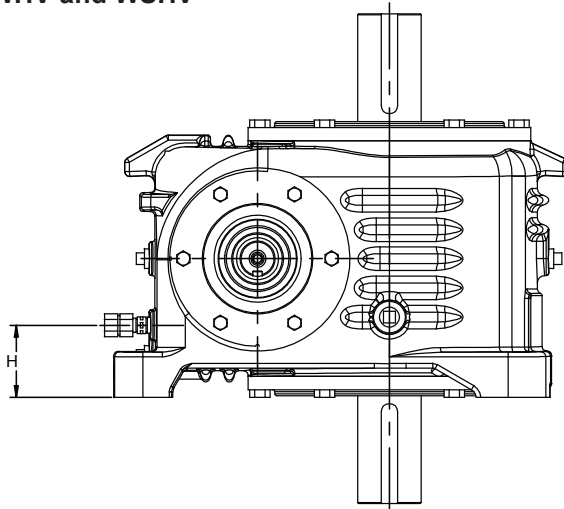
COOLING COIL INLET & OUTLET ARE LOCATED AT END OF HOUSING OPPOSITE INPUT SHAFT.
SEE CAUTION NOTE BELOW

WHU and WSHU



COOLING COIL INLET & OUTLET ARE LOCATED AT END OF HOUSING OPPOSITE 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			
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											5.6																									
Y											1.2																									
Z											2.8																									
T	3/8 - 18 NPT																		1 - 11 1/2 NPT																	

COOLING COILS MAY BE SUPPLIED IN EITHER PLAIN 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							Size 120 - Water Cooling TRU-FIN Th HP Rating										
Model	Ratio to 1	RPM					Model	Ratio to 1	RPM								
		580	720	870	1150	1750			100	200	300	580	720	870	1150	1750	
WHO 40	5	-	-	-	-	26	WHO 120	5	68	91	116	144	157	179	189	189	
WHV 40*	5	-	-	-	20.5	21.8		10	47	63	77	100	118	122	135	135	
	10	-	-	-	-	16.2		15	-	52	62	82	91	95	103	103	
WHO 50	5	-	29	33	34	36		20	-	44	53	72	76	78	82	84	
	10	-	-	23	25	26		25	-	38	46	62	67	68	71	71	
	15	-	-	-	-	21		30	-	32	39	51	56	58	59	59	
	20	-	-	-	-	16		40	-	-	33	44	48	49	51	51	
	25	-	-	-	-	14		50	-	-	-	37	40	41	44	44	
	30	-	-	-	-	12		60	-	-	-	-	-	36	39	39	
WHO 60	5	-	43	50	51	54		70	-	-	-	-	-	-	-	-	37
	10	-	-	-	38	39	WHV 120	10	-	-	-	144	183	185	216	-	
	15	-	-	-	-	31		15	-	-	-	116	129	141	158	-	
	20	-	-	-	-	24		20	-	-	-	-	101	102	110	-	
WHU 60	25	-	-	-	57	59	WD 120	5	-	173.96	218.49	235.29	243.09	306.13	311.83	312.13	
	10	-	-	-	-	44		10	77.67	97.36	112.2	134.75	170.16	172.26	200.12	200.12	
WHV 60	5	-	-	-	53	55		15	-	73.48	83.01	108.94	120.78	131.75	146.71	146.71	
	10	-	-	-	-	40		20	-	59.58	66.62	92.61	95.31	96.27	103.47	110.02	
	15	-	-	-	-	32		25	-	52.76	60.78	79.9	85.71	90.39	96.99	96.99	
	20	-	-	-	-	25		30	-	42.74	49.2	60.62	68.84	71.78	75.39	75.39	
	20	-	-	-	-	25		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	

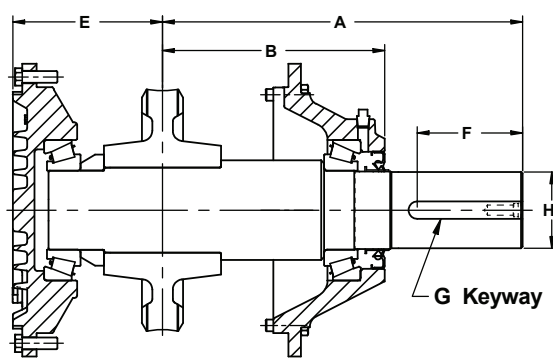
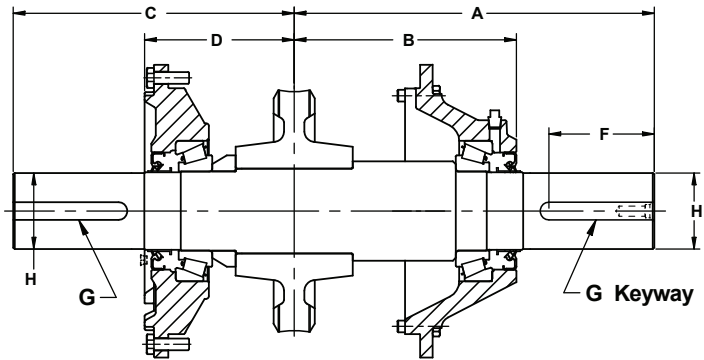
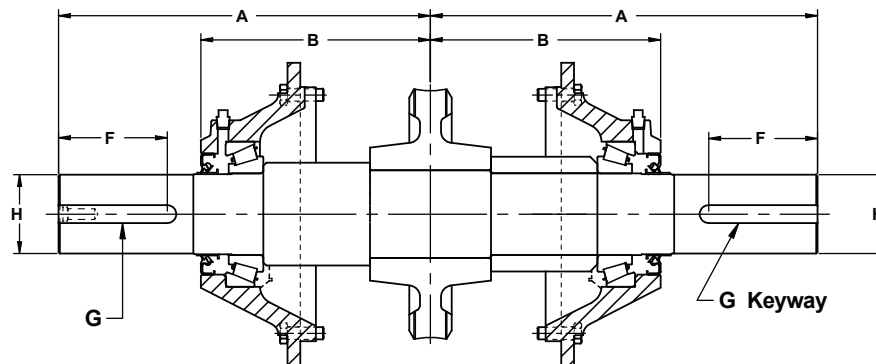
Size 70 to 100 - Water Cooling TRU-FIN Th HP Rating									
Model	Ratio to 1	INPUT RPM							
		100	200	300	580	720	870	1150	1750
WHO 70	5	-	-	-	-	-	-	-	88
	10	-	-	-	-	-	-	-	65
WHU 70	5	-	-	-	-	-	-	78	81
	10	-	-	-	-	-	-	58	59
	15	-	-	-	-	-	-	-	46
	20	-	-	-	-	-	-	-	37
WD 70	5	69	82	98	105	108	126	128	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.

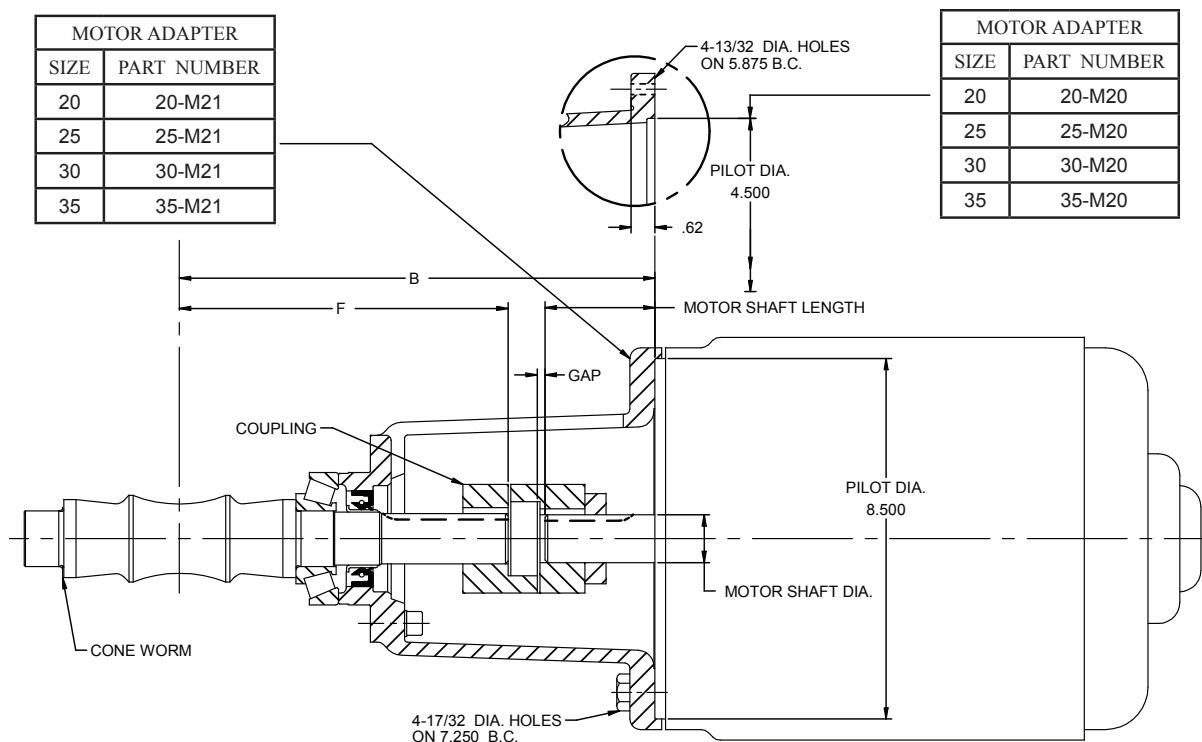
For S mounting on vertical gear shaft unit, specify steeple bearing opposite feet (U) or through feet (D).

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.

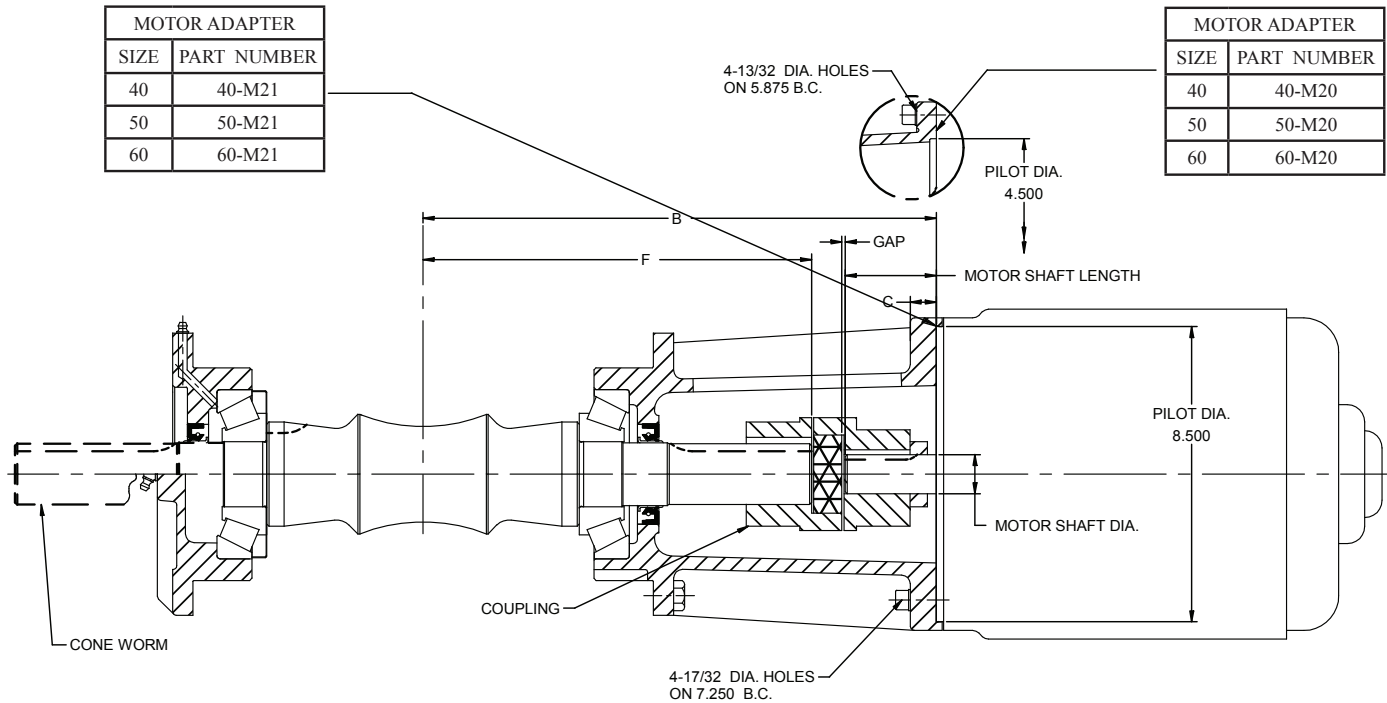
MOTOR FRAME SIZE	COUPLING NUMBER				WORM PART NUMBER			
	REDUCER SIZE				REDUCER SIZE			
	20	25	30	35	20	25	30	35
56 C	720001	720005	720105	720110	20-200	25-200	30-200	35-200
143TC - 145TC	720004	720007	720107	720112	20-200	25-200	30-200	35-200
182TC - 184TC	720102	720104	720109	720113	20-200	25-200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

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.

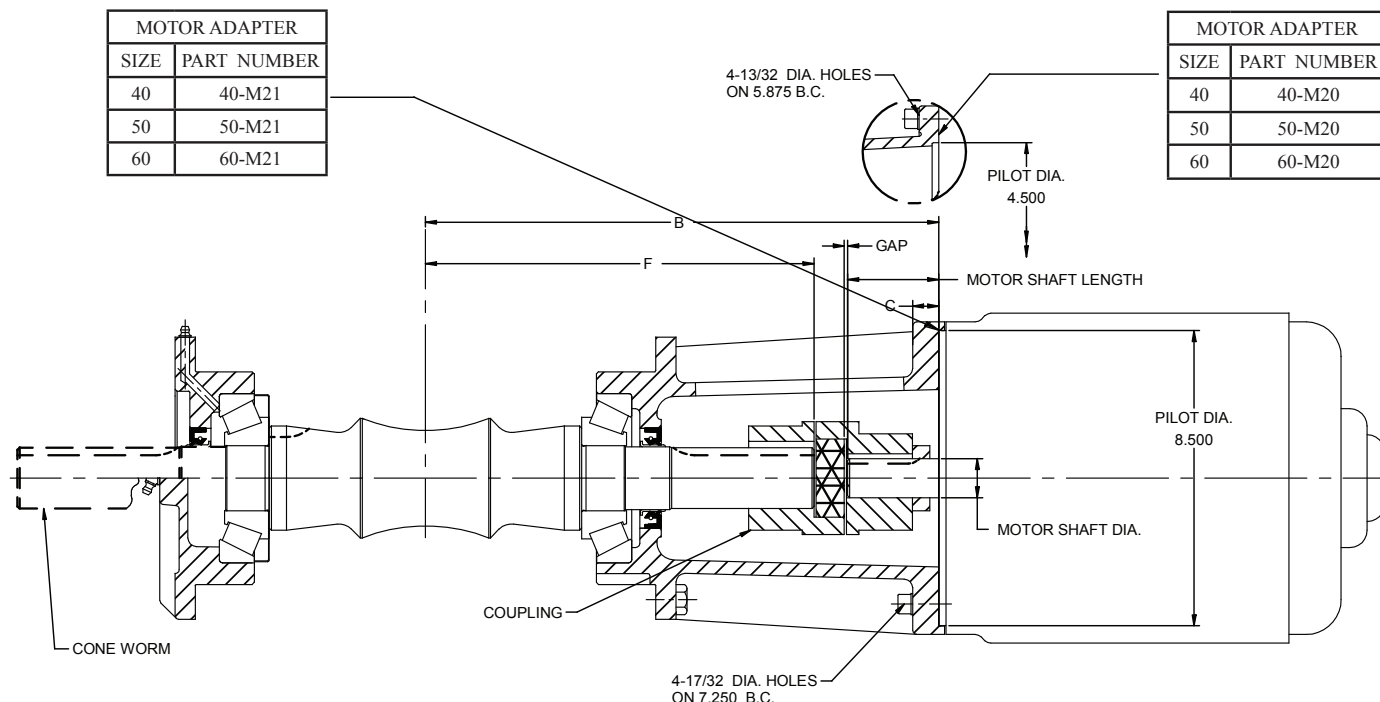
MOTOR FRAME SIZE	COUPLING NUMBER			WORM PART NUMBER		
	REDUCER SIZE			REDUCER SIZE		
	40	50	60	40	50	60
143TC - 145TC	720207	720207	720212	40-200-3	50-200-3	60-200-3
182TC - 184TC	720208	720208	720213	40-200-1	50-200-1	60-200-1
213TC - 215TC	720209	720209	720214	40-200-2	50-200-2	60-200-2
254TC - 256TC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

Motor Adapters

For Cone Drive Standard Speed Reducer Sizes 70 & 80

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

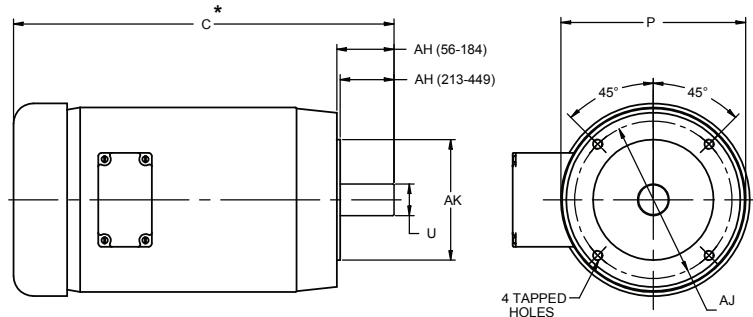
MOTOR					B		F		G
FRAME SIZE	PILOT DIA.	SHAFT			REDUCER SIZE		REDUCER SIZE		
		Lgth.	Dia.	Kwy.	70	80	70	80	
182TC - 184TC	8.500	2.625	1.125	1/4	17.12	18.49	13.375	14.75	1.120
213TC - 215TC		3.125	1.375	5/16			12.875	14.25	1.120
254TC - 256TC		3.750	1.625	3/8			12.250	13.62	1.120
284TC - 286TC	10.500	4.375	1.875	1/2			11.620	13.00	1.125

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

MOTOR FRAME SIZE	COUPLING P/N		WORM P/N		PLATE P/N	
	REDUCER SIZE		REDUCER SIZE		REDUCER SIZE	
	70	80	70	80	70	80
143TC - 145TC	720269	720264	70-200-1	80-200-1	MP5D-03	
182TC - 184TC	720270	720265	70-200-2	80-200-2		
213TC - 215TC	720301	720313	70-200-3	80-200-3		
254TC - 256TC	720303	720314	70-200-4	80-200-4	MP5D-04	

NEMA Motor Frames

(dimensions shown in inch)

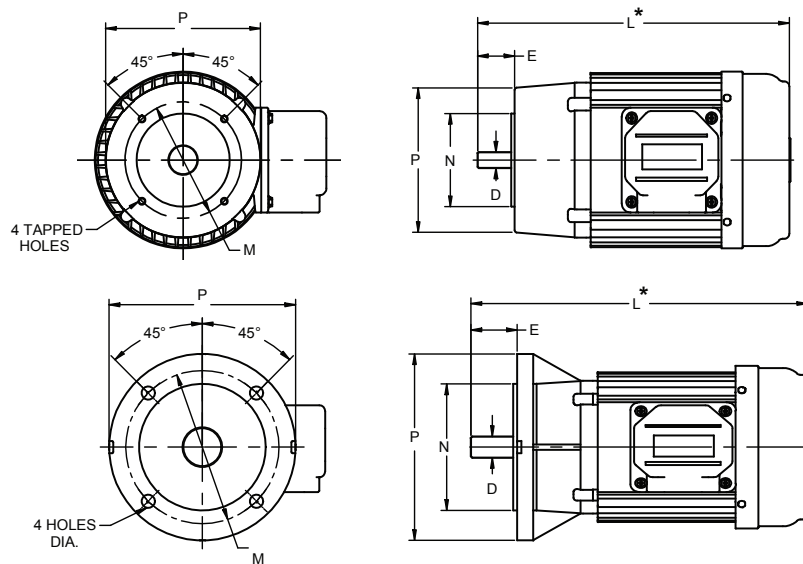


NEMA Frame	U Shaft Dia.	AH Shaft Length	AJ Bolt Circle	AK Pilot Dia.	P Diameter	C* Length (approx.)
48C	1/2	1 11/16	3 3/4	3	5 11/16	12.9
56C	5/8	2 1/16	5 7/8	4 1/2	6 5/8	11.4
143-145TC	7/8	2 1/8	5 7/8	4 1/2	6 5/8	13.4
182-184TC	1 1/8	2 5/8	7 1/4	8 1/2	7 7/8	16.5
213-215TC	1 3/8	3 1/8	7 1/4	8 1/2	9 9/16	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.

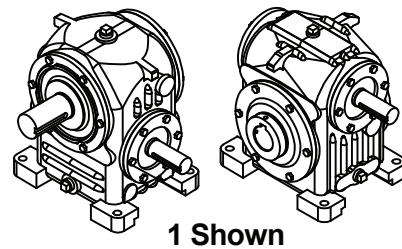
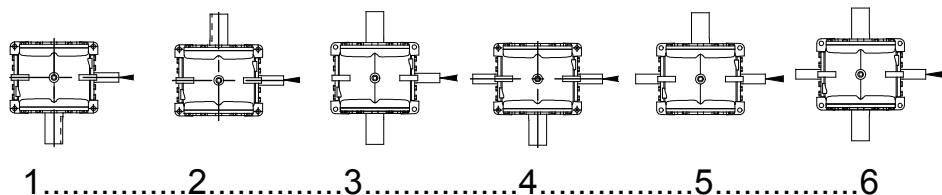
Assembly & Mounting Position Numbers for Cone Drive Single Reduction Units

Models HU, SHU, HO, SHO

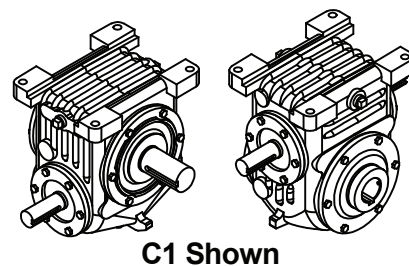
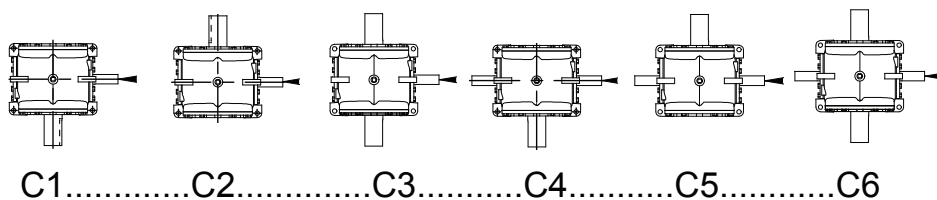
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.

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

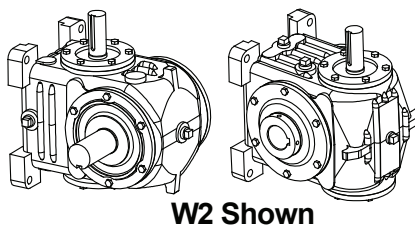
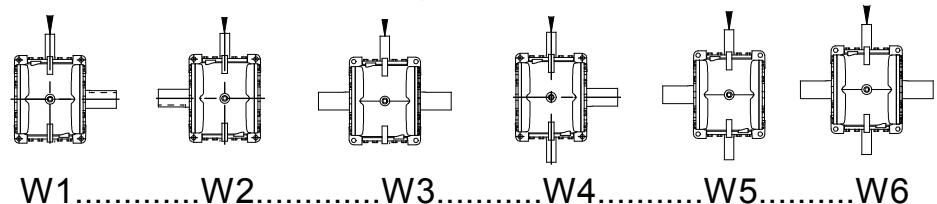
Top View, Floor Mounted



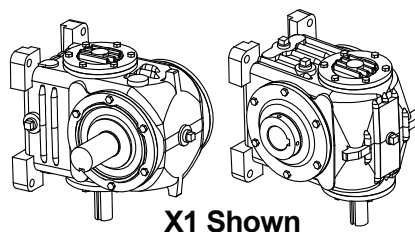
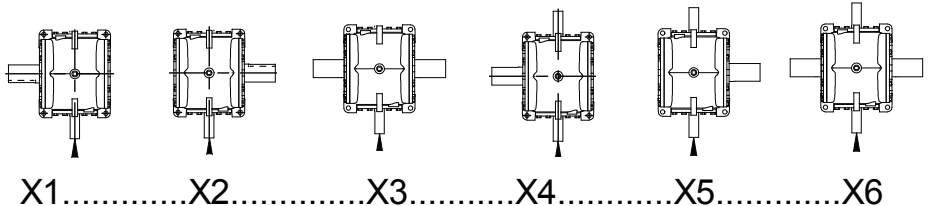
Ceiling Mounted



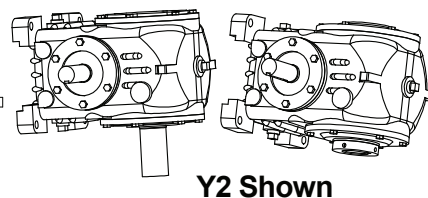
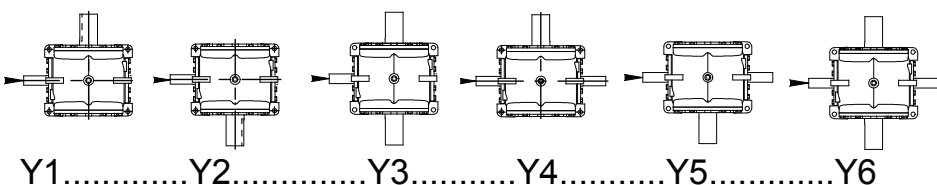
Wall Mounted, Worm Vertical Up



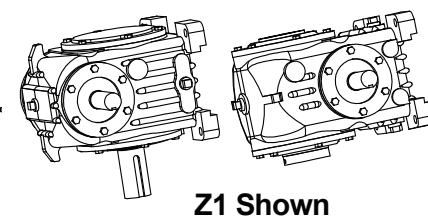
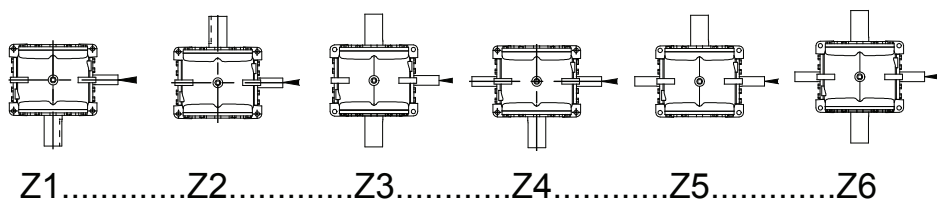
Wall Mounted, Worm Vertical Down



Wall Mounted, Worm Horizontal to the Left



Wall Mounted, Worm Horizontal to the Right



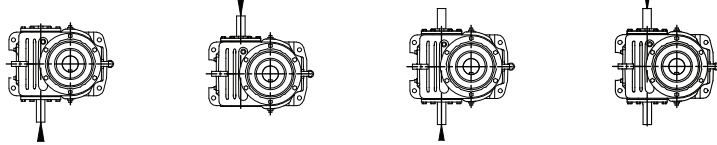
Assembly & Mounting Position Numbers for Cone Drive Single Reduction Units

Models HV, SHV

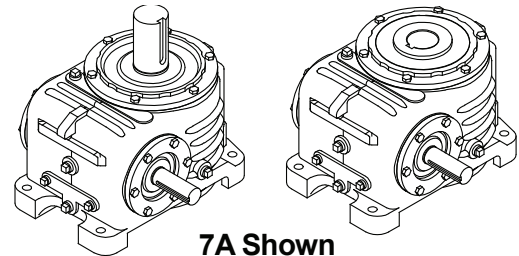
Model Prefixes: F = Fan cooled W = Water cooled M = Motorized P = Pressure lube
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.

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

Top View, Floor Mounted

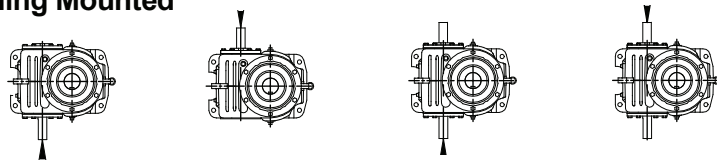


7A.....	8A.....	9A.....	0A.....
7B.....	8B.....	9B.....	0B.....
7C.....	8C.....	9C.....	0C.....

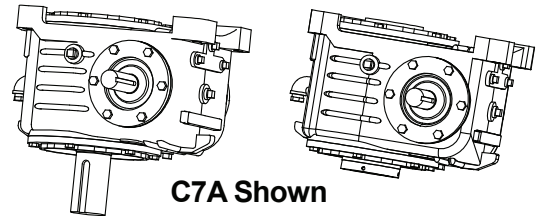


7A Shown

Ceiling Mounted

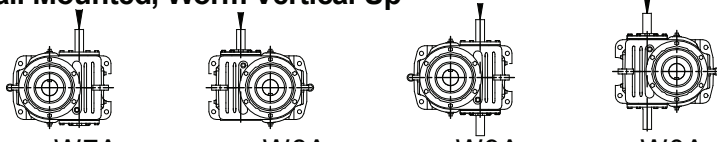


C7A.....	C8A.....	C9A.....	C0A.....
C7B.....	C8B.....	C9B.....	C0B.....
C7C.....	C8C.....	C9C.....	C0C.....

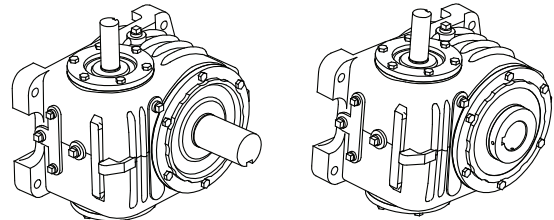


C7A Shown

Wall Mounted, Worm Vertical Up

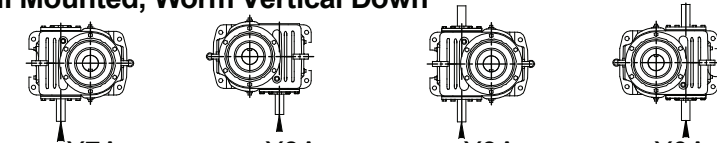


W7A.....	W8A.....	W9A.....	W0A.....
W7B.....	W8B.....	W9B.....	W0B.....
W7C.....	W8C.....	W9C.....	W0C.....

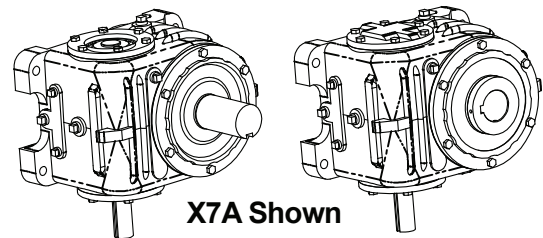


W8A Shown

Wall Mounted, Worm Vertical Down



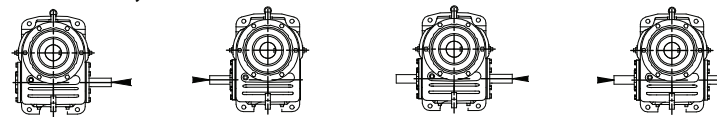
X7A.....	X8A.....	X9A.....	X0A.....
X7B.....	X8B.....	X9B.....	X0B.....
X7C.....	X8C.....	X9C.....	X0C.....



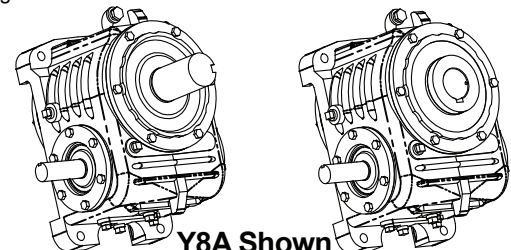
X7A Shown

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

Wall Mounted, Worm Horizontal Under Gear

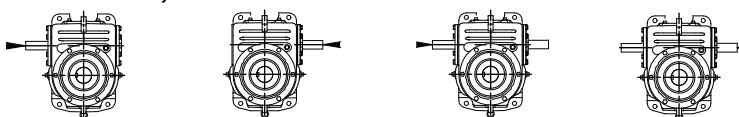


Y7A.....	Y8A.....	Y9A.....	Y0A.....
Y7B.....	Y8B.....	Y9B.....	Y0B.....
Y7C.....	Y8C.....	Y9C.....	Y0C.....

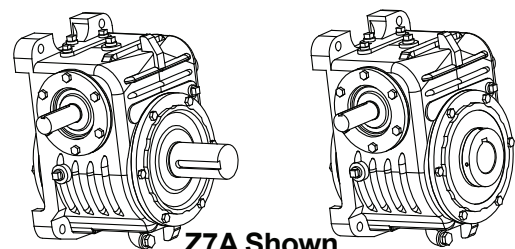


Y8A Shown

Wall Mounted, Worm Horizontal Over Gear



Z7A.....	Z8A.....	Z9A.....	Z0A.....
Z7B.....	Z8B.....	Z9B.....	Z0B.....
Z7C.....	Z8C.....	Z9C.....	Z0C.....



Z7A Shown

Assembly & Mounting Position Numbers for Cone Drive Single Reduction Units

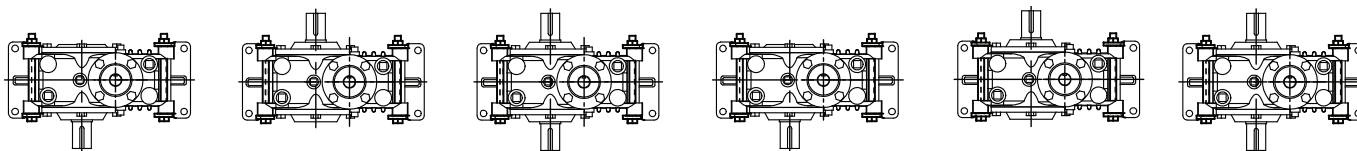
Models VH, VHU, SVH, SVHU

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

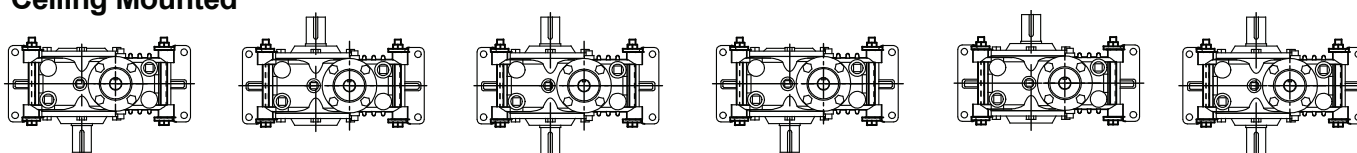
FOR INPUT END EXTENDING DOWN SPECIFY
SAME WHEN ORDERING AND ADD LETTER "D"
AFTER UNIT SIZE VH50D-1

Top View, Floor Mounted



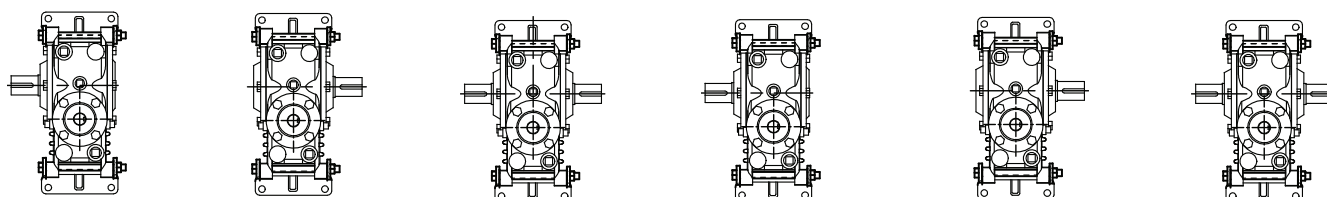
1.....2.....3.....4.....5.....6

Ceiling Mounted



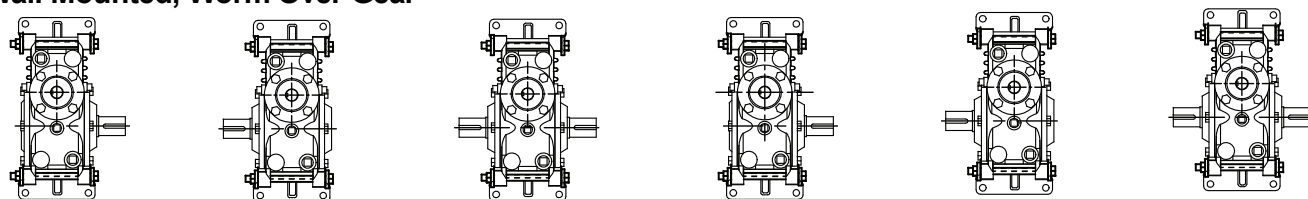
C1.....C2.....C3.....C4.....C5.....C6

Wall Mounted, Worm Under Gear



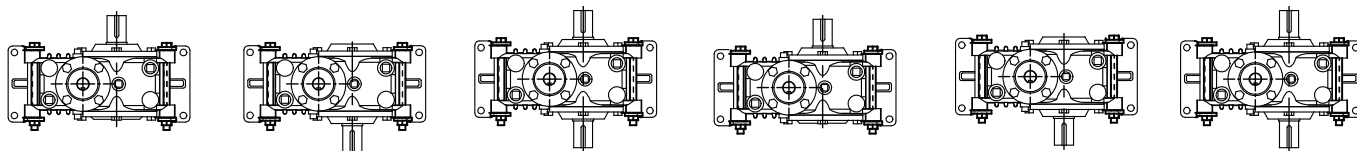
W1.....W2.....W3.....W4.....W5.....W6

Wall Mounted, Worm Over Gear



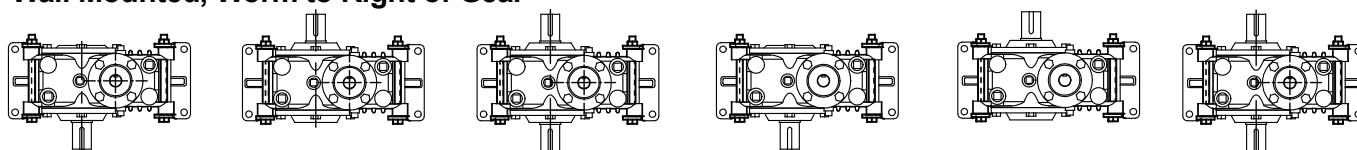
X1.....X2.....X3.....X4.....X5.....X6

Wall Mounted, Worm to the Left of Gear



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

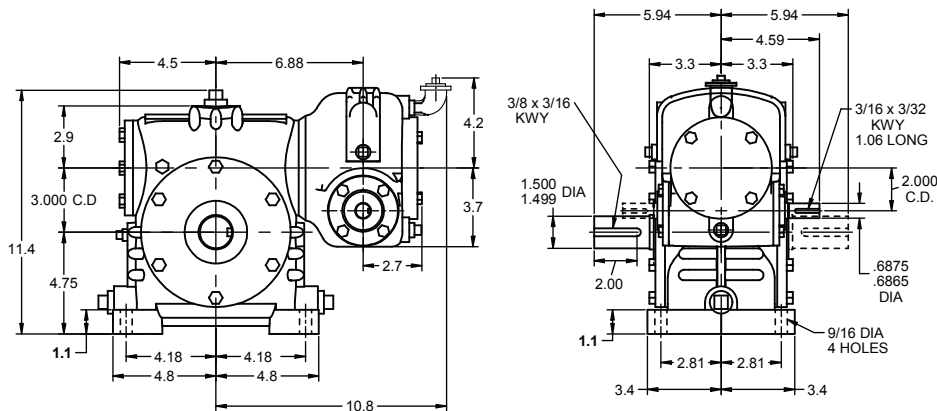
Wall Mounted, Worm to Right of Gear



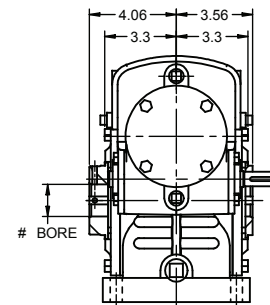
Z1.....Z2.....Z3.....Z4.....Z5.....Z6

Cone Drive Double Reduction Units - 2.000" C.D. PRI./3.000" C.D. SEC.**Size 20-30****Solid Shaft**

Model UO Shown, net. wt. 111 lbs, for all models
00 and VO configurations follow in this section.

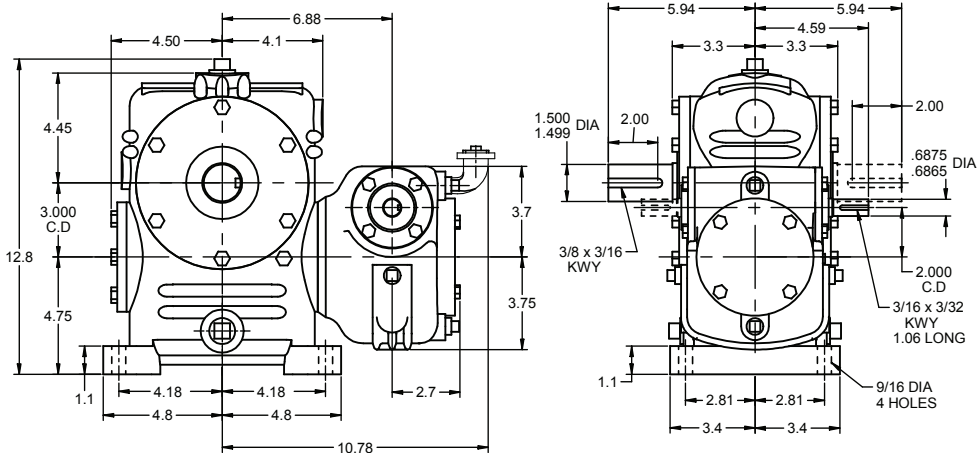
**Hollow Shaft**

UOS net wt. 120 lbs

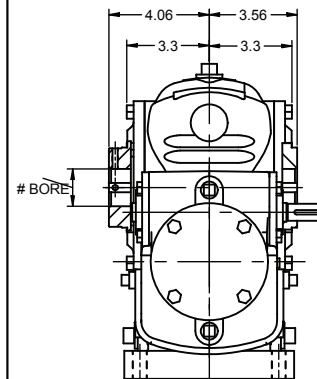


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model OU Shown net wt. 111 lbs for all models
UU and VU configurations follow in this section.

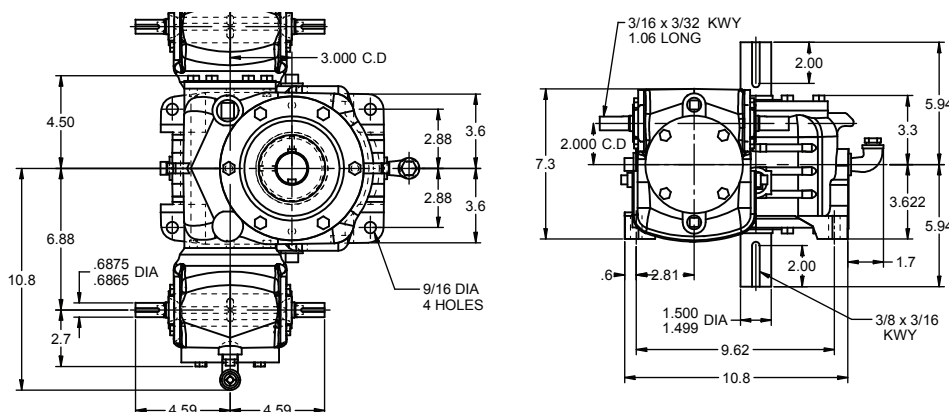


OUS net wt. 120 lbs

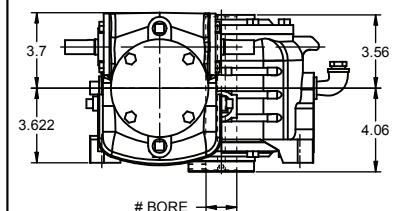


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model OV Shown net wt. 108 lbs for all models
UV and VV configurations follow in this section



OVS net wt. 120 lbs



SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT

MAY EXTEND ON EITHER SIDE

PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

Cone Drive Double Reduction Units - 2.000" C.D. PRI./3.000" C.D. SEC. Size 20-30

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	0.23	1.2	1.6	2.1	3.0
	Th.HP	0.23	1.2	1.6	2.1	3.0
	O.T.	7,050	6,805	6,475	6,415	6,170
100 (5x20)	Me.HP	0.18	0.92	1.3	1.6	2.3
	Th.HP	0.18	0.92	1.3	1.6	2.3
	O.T.	6,695	6,585	6,285	6,235	5,990
125 (5x25)	Me.HP	0.14	0.74	1.0	1.3	1.9
	Th.HP	0.14	0.74	1.0	1.3	1.9
	O.T.	6,345	6,290	6,000	6,115	5,955
150 (10x15)	Me.HP	0.12	0.67	0.95	1.2	1.7
	Th.HP	0.12	0.67	0.95	1.2	1.7
	O.T.	6,920	6,960	6,925	6,840	6,475
200 (10x20)	Me.HP	0.09	0.51	0.73	0.89	1.3
	Th.HP	0.09	0.51	0.73	0.89	1.3
	O.T.	6,460	6,625	6,700	6,615	6,285
225 (15x15)	Me.HP	0.13	0.47	0.67	0.86	1.2
	Th.HP	0.13	0.47	0.67	0.86	1.2
	O.T.	6,920	7,140	6,960	6,990	6,805
250 (10x25)	Me.HP	0.08	0.41	0.58	0.72	1.0
	Th.HP	0.08	0.41	0.58	0.72	1.0
	O.T.	6,105	6,295	6,380	6,305	6,000
300 (15x20)	Me.HP	0.10	0.36	0.51	0.66	0.95
	Th.HP	0.10	0.36	0.51	0.66	0.95
	O.T.	6,460	6,800	6,625	6,760	6,585
375 (15x25)	Me.HP	0.08	0.29	0.41	0.53	0.77
	Th.HP	0.08	0.29	0.41	0.53	0.77
	O.T.	6,105	6,475	6,295	6,435	6,290
400 (20x20)	Me.HP	0.05	0.28	0.41	0.53	0.76
	Th.HP	0.05	0.28	0.41	0.53	0.76
	O.T.	6,305	6,795	6,770	6,625	6,700
450 (15x30)	Me.HP	0.07	0.24	0.34	0.44	0.64
	Th.HP	0.07	0.24	0.34	0.44	0.64
	O.T.	5,735	6,220	6,045	6,195	6,055
500 (25x20)	Me.HP	0.06	0.24	0.32	0.45	0.61
	Th.HP	0.06	0.24	0.32	0.45	0.61
	O.T.	6,305	6,845	6,740	6,720	6,835
600 (30x20)	Me.HP	0.06	0.21	0.29	0.38	0.56
	Th.HP	0.06	0.21	0.29	0.38	0.56
	O.T.	6,305	6,695	6,795	6,800	6,625
625 (25x25)	Me.HP	0.05	0.19	0.26	0.36	0.49
	Th.HP	0.05	0.19	0.26	0.36	0.49
	O.T.	5,845	6,495	6,400	6,385	6,510
750 (30x25)	Me.HP	0.05	0.17	0.24	0.31	0.45
	Th.HP	0.05	0.17	0.24	0.31	0.45
	O.T.	5,845	6,345	6,450	6,475	6,295
800 (40x20)	Me.HP	0.07	0.16	0.26	0.30	0.45
	Th.HP	0.07	0.16	0.26	0.30	0.45
	O.T.	6,305	6,740	6,845	6,795	6,770
900 (30x30)	Me.HP	0.04	0.14	0.20	0.26	0.37
	Th.HP	0.04	0.14	0.20	0.26	0.37
	O.T.	5,570	5,980	6,190	6,220	6,045
1000 (50x20)	Me.HP	0.07	0.17	0.22	0.27	0.37
	Th.HP	0.05	0.17	0.22	0.27	0.37
	O.T.	6,305	6,740	6,695	6,845	6,740
1200 (40x30)	Me.HP	0.04	0.11	0.17	0.21	0.30
	Th.HP	0.04	0.11	0.17	0.21	0.30
	O.T.	5,570	6,020	6,235	6,190	6,175
1250 (50x25)	Me.HP	0.06	0.14	0.17	0.21	0.29
	Th.HP	0.05	0.14	0.17	0.21	0.29
	O.T.	5,845	6,385	6,345	6,495	6,400

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

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. Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive. Set screw end of hollow shaft is considered the extension end. Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction. For output shaft chain pull capacity, see single reduction rating chart for secondary unit size. Divide input RPM by primary ratio to obtain secondary input RPM. Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear. Hand of assembly views, follow in this section. Refer to page 26 for lubrication information, efficiency and service factors. Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

STANDARD HOLLOW GEAR SHAFTS		
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

Special hollow gear shaft bore sizes are available at additional cost.
• AGMA Standard
Bore Tolerance: +.002, -.0002 set screws at long end of shaft.

Important:

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

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

KEY: Me.HP = Mech. Input Power (HP)

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

Size 20-35 Solid Shaft

Hollow Shaft

Technical drawings of the 1/2 KWY pump assembly, showing front and side views with dimensions.

Front View Dimensions:

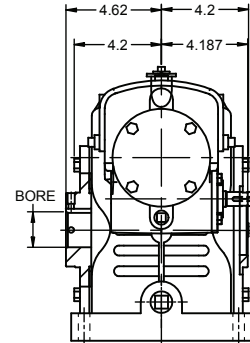
- Overall width: 11.40
- Overall height: 13.0
- Top flange width: 5.2
- Top flange height: 7.50
- Top flange thickness: 3.4
- Top flange hole pitch circle diameter (C.D.): 3.500
- Top flange hole diameter: 5.375
- Top flange hole diameter: 1.3
- Top flange hole diameter: 4.88
- Top flange hole diameter: 4.88
- Top flange hole diameter: 5.50
- Top flange hole diameter: 5.50
- Top flange hole diameter: 2.7
- Top flange hole diameter: 3.7
- Top flange hole diameter: 3.7

Side View Dimensions:

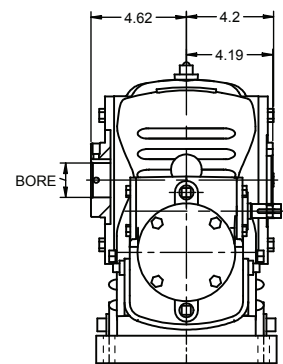
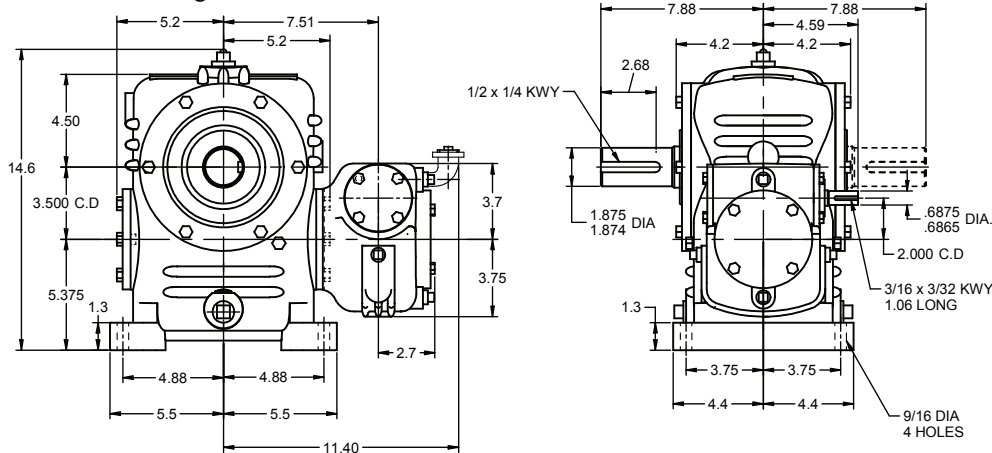
- Overall width: 7.88
- Overall height: 7.88
- Top flange width: 4.23
- Top flange height: 4.59
- Top flange thickness: 2.62
- Top flange hole pitch circle diameter (C.D.): 3.500
- Top flange hole diameter: 1.875
- Top flange hole diameter: 1.874
- Top flange hole diameter: 1.3
- Top flange hole diameter: 3.75
- Top flange hole diameter: 3.75
- Top flange hole diameter: 4.4
- Top flange hole diameter: 4.4
- Top flange hole diameter: 2.7
- Top flange hole diameter: 3.7
- Top flange hole diameter: 3.7

Other Dimensions:

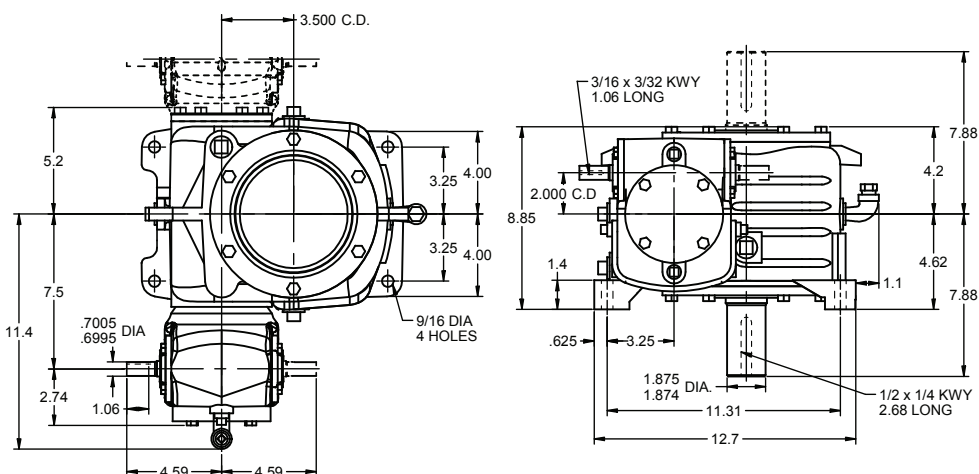
- Top flange hole diameter: .6875
- Top flange hole diameter: .6865 DIA
- Top flange hole diameter: 3/16 x 3/32 KWY
- Top flange hole diameter: 1.06 LONG
- Top flange hole diameter: 9/16 DIA
- Top flange hole diameter: 4 HOLES



Model OU Shown net wt. 151 lbs for all models
UU and VU configurations follow in this section.

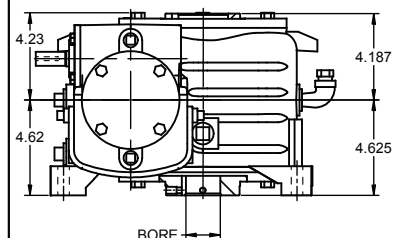


Model OV Shown net wt. 148 lbs for all models
UV and VV configurations follow in this section



PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

OVS net wt. 155 lbs



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

Cone Drive Double Reduction Units - 2.000" C.D. PRI./3.500" C.D. SEC. Size 20-35

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	0.43	2.2	3.0	3.6	4.6
	Th.HP	0.40	1.8	2.5	3.0	3.4
	O.T.	13,170	12,530	11,925	11,180	9,350
100 (5x20)	Me.HP	0.33	1.7	2.3	2.9	4.2
	Th.HP	0.33	1.7	2.3	2.9	3.4
	O.T.	12,510	12,165	11,560	11,440	10,960
125 (5x25)	Me.HP	0.26	1.4	1.9	2.4	3.4
	Th.HP	0.26	1.4	1.9	2.4	3.4
	O.T.	11,850	11,595	11,035	11,235	10,910
150 (10x15)	Me.HP	0.23	1.2	1.8	2.2	3.1
	Th.HP	0.23	1.2	1.6	2.0	2.5
	O.T.	13,020	12,905	12,760	12,630	11,925
200 (10x20)	Me.HP	0.18	0.95	1.3	1.7	2.4
	Th.HP	0.18	0.95	1.3	1.7	2.4
	O.T.	12,155	12,290	12,375	12,220	11,560
225 (15x15)	Me.HP	0.25	0.87	1.2	1.6	2.3
	Th.HP	0.18	0.83	1.1	1.4	1.8
	O.T.	13,020	13,280	12,905	12,955	12,530
250 (10x25)	Me.HP	0.14	0.76	1.1	1.3	1.9
	Th.HP	0.14	0.76	1.1	1.3	1.9
	O.T.	11,485	11,675	11,790	11,650	11,035
300 (15x20)	Me.HP	0.19	0.67	0.95	1.2	1.8
	Th.HP	0.18	0.67	0.95	1.2	1.8
	O.T.	12,155	12,700	12,290	12,525	12,165
375 (15x25)	Me.HP	0.15	0.54	0.76	0.99	1.4
	Th.HP	0.15	0.54	0.76	0.99	1.4
	O.T.	11,485	12,065	11,675	11,965	11,595
400 (20x20)	Me.HP	0.10	0.52	0.76	0.98	1.4
	Th.HP	0.10	0.52	0.76	0.98	1.4
	O.T.	11,860	12,680	12,610	12,290	12,375
450 (15x30)	Me.HP	0.13	0.45	0.64	0.83	1.2
	Th.HP	0.13	0.45	0.64	0.83	1.2
	O.T.	10,790	11,590	11,210	11,515	11,165
500 (25x20)	Me.HP	0.11	0.45	0.60	0.83	1.1
	Th.HP	0.11	0.45	0.60	0.83	1.1
	O.T.	11,860	12,785	12,610	12,465	12,715
600 (30x20)	Me.HP	0.11	0.39	0.55	0.71	1.0
	Th.HP	0.09	0.39	0.55	0.71	0.93
	O.T.	11,860	12,510	12,680	12,700	12,290
625 (25x25)	Me.HP	0.08	0.36	0.49	0.67	0.92
	Th.HP	0.08	0.36	0.49	0.67	0.92
	O.T.	10,990	12,140	11,970	11,845	12,110
750 (30x25)	Me.HP	0.09	0.31	0.44	0.57	0.83
	Th.HP	0.09	0.31	0.44	0.57	0.83
	O.T.	10,990	11,850	12,040	12,065	11,675
800 (40x20)	Me.HP	0.10	0.31	0.48	0.57	0.83
	Th.HP	0.07	0.31	0.45	0.55	0.70
	O.T.	11,860	12,630	12,785	12,680	12,610
900 (30x30)	Me.HP	0.07	0.26	0.37	0.48	0.70
	Th.HP	0.07	0.26	0.37	0.48	0.70
	O.T.	10,480	11,170	11,550	11,590	11,210
1000 (50x20)	Me.HP	0.08	0.32	0.41	0.50	0.69
	Th.HP	0.05	0.26	0.36	0.44	0.56
	O.T.	11,860	12,630	12,510	12,785	12,610
1200 (40x30)	Me.HP	0.08	0.21	0.33	0.38	0.56
	Th.HP	0.07	0.21	0.33	0.38	0.56
	O.T.	10,480	11,280	11,650	11,550	11,505
1250 (50x25)	Me.HP	0.08	0.25	0.33	0.40	0.55
	Th.HP	0.05	0.25	0.33	0.40	0.55
	O.T.	10,990	11,965	11,850	12,140	11,970

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

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. Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive. Set screw end of hollow shaft is considered the extension end. Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction. For output shaft chain pull capacity, see single reduction rating chart for secondary unit size. Divide input RPM by primary ratio to obtain secondary input RPM. Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear. Hand of assembly views, follow in this section. Refer to page 26 for lubrication information, efficiency and service factors. Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

STANDARD HOLLOW GEAR SHAFTS		
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

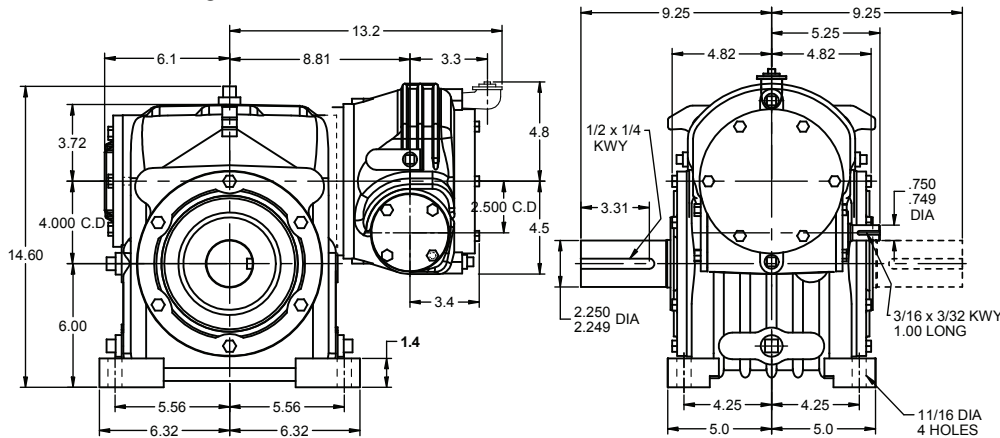
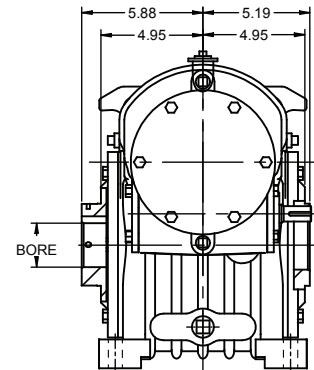
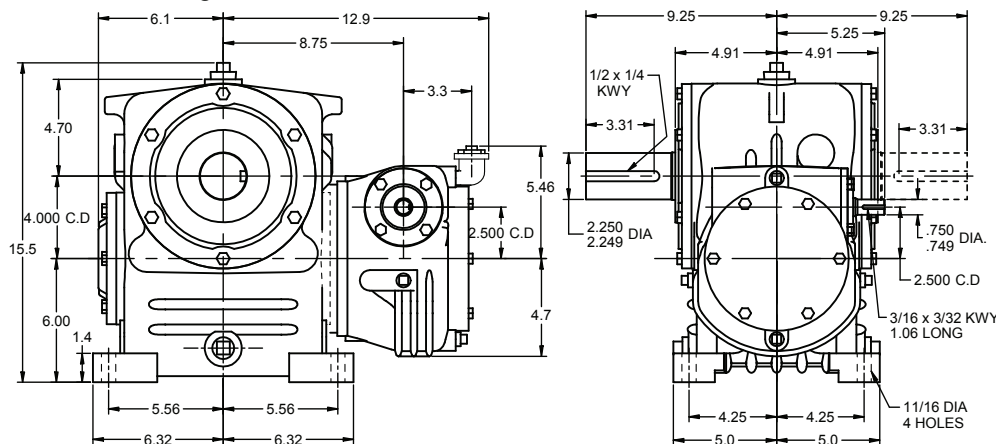
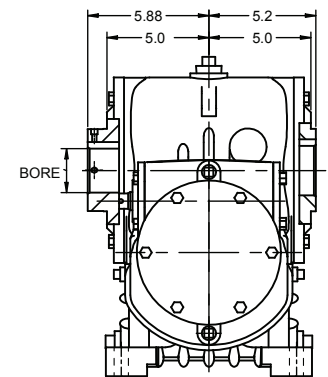
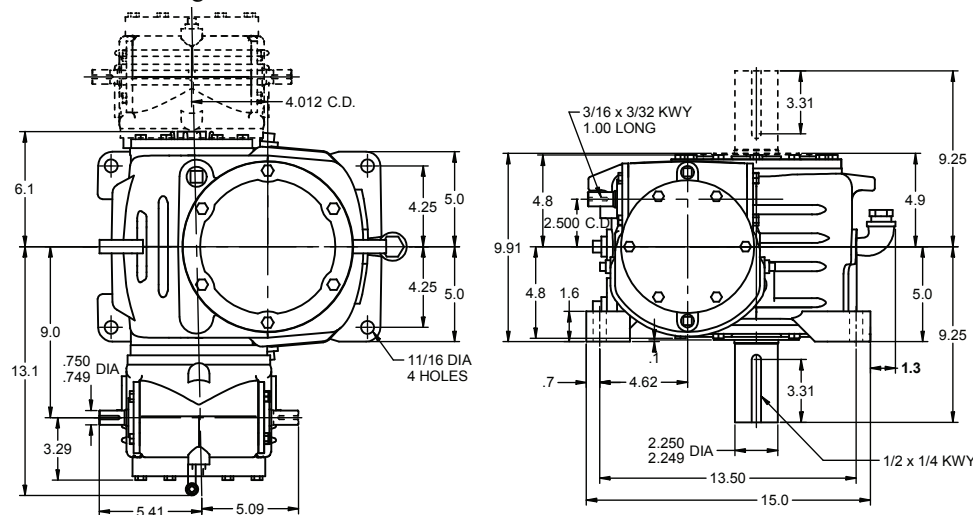
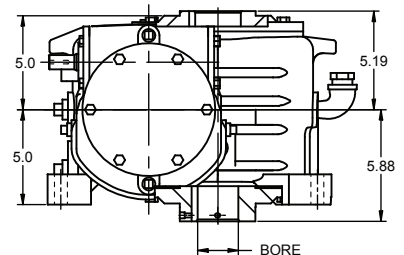
Special hollow gear shaft bore sizes are available at additional cost.
* AGMA Standard
Bore Tolerance: +.002, -.000 2 set screws at long end of shaft.

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.

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

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

Cone Drive Double Reduction Units - 2.500" C.D. PRI./4.000" C.D. SEC.**Size 25-40****Solid Shaft****Model UO** Shown, net. wt. 212 lbs, for all models
00 and VO configurations follow in this section.**Hollow Shaft****UOS** net wt. 222 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE**Model OU** Shown net wt. 220 lbs for all models
UU and VU configurations follow in this section.**OUS** net wt. 230 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE**Model OV** Shown net wt. 246 lbs for all models
UV and VV configurations follow in this section**OVS** net wt. 256 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDEPRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

Cone Drive Double Reduction Units - 2.500" C.D. PRI./4.000" C.D. SEC. Size 25-40

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	0.62	3.2	4.4	5.6	7.9
	Th.HP	0.62	3.2	4.2	4.5	5.0
	O.T.	19,960	18,715	17,790	17,650	16,720
100 (5x20)	Me.HP	0.48	2.4	3.3	4.3	6.1
	Th.HP	0.48	2.4	3.3	4.3	5.0
	O.T.	19,005	18,145	17,280	17,165	16,270
125 (5x25)	Me.HP	0.38	2.0	2.7	3.4	4.9
	Th.HP	0.38	2.0	2.7	3.4	4.9
	O.T.	18,060	17,385	16,535	16,845	16,210
150 (10x15)	Me.HP	0.34	1.8	2.5	3.1	4.5
	Th.HP	0.34	1.8	2.5	3.1	4.0
	O.T.	19,780	19,460	19,130	18,830	17,790
200 (10x20)	Me.HP	0.26	1.4	1.9	2.4	3.4
	Th.HP	0.26	1.4	1.9	2.4	3.4
	O.T.	18,530	18,580	18,595	18,320	17,280
225 (15x15)	Me.HP	0.36	1.3	1.8	2.3	3.3
	Th.HP	0.35	1.3	1.8	2.3	3.2
	O.T.	19,780	20,030	19,460	19,365	18,715
250 (10x25)	Me.HP	0.21	1.1	1.6	1.9	2.8
	Th.HP	0.21	1.1	1.6	1.9	2.8
	O.T.	17,560	17,695	17,750	17,495	16,535
300 (15x20)	Me.HP	0.27	0.97	1.4	1.8	2.5
	Th.HP	0.27	0.97	1.4	1.8	2.5
	O.T.	18,530	19,125	18,580	18,820	18,145
375 (15x25)	Me.HP	0.22	0.78	1.1	1.4	2.0
	Th.HP	0.22	0.78	1.1	1.4	2.0
	O.T.	17,560	18,295	17,695	17,965	17,385
400 (20x20)	Me.HP	0.15	0.76	1.1	1.4	2.0
	Th.HP	0.15	0.76	1.1	1.4	2.0
	O.T.	18,155	19,220	18,990	18,580	18,595
450 (15x30)	Me.HP	0.18	0.65	0.93	1.2	1.7
	Th.HP	0.18	0.65	0.93	1.2	1.7
	O.T.	16,550	17,605	17,030	17,320	16,770
500 (25x20)	Me.HP	0.15	0.65	0.87	1.2	1.6
	Th.HP	0.15	0.65	0.87	1.2	1.6
	O.T.	18,155	19,405	19,085	18,855	19,105
600 (30x20)	Me.HP	0.16	0.57	0.79	1.0	1.5
	Th.HP	0.16	0.57	0.79	1.0	1.5
	O.T.	18,155	19,005	19,220	19,125	18,580
625 (25x25)	Me.HP	0.12	0.52	0.70	0.97	1.3
	Th.HP	0.12	0.52	0.70	0.97	1.3
	O.T.	16,895	18,470	18,160	17,955	18,235
750 (30x25)	Me.HP	0.13	0.46	0.64	0.83	1.2
	Th.HP	0.13	0.46	0.64	0.83	1.2
	O.T.	16,895	18,060	18,290	18,295	17,695
800 (40x20)	Me.HP	0.18	0.45	0.70	0.82	1.2
	Th.HP	0.13	0.45	0.70	0.82	1.2
	O.T.	18,155	19,215	19,405	19,220	18,990
900 (30x30)	Me.HP	0.11	0.38	0.54	0.70	1.0
	Th.HP	0.11	0.38	0.54	0.70	1.0
	O.T.	16,150	17,070	17,590	17,605	17,030
1000 (50x20)	Me.HP	0.16	0.46	0.59	0.72	0.99
	Th.HP	0.11	0.46	0.59	0.72	0.99
	O.T.	18,155	19,215	19,005	19,405	19,085
1200 (40x30)	Me.HP	0.12	0.30	0.47	0.56	0.81
	Th.HP	0.12	0.30	0.47	0.56	0.81
	O.T.	16,150	17,260	17,760	17,590	17,405
1250 (50x25)	Me.HP	0.16	0.37	0.48	0.58	0.80
	Th.HP	0.11	0.37	0.48	0.58	0.80
	O.T.	16,895	18,255	18,060	18,470	18,160

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

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.

Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets.

Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views, follow in this section.

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

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

STANDARD HOLLOW GEAR SHAFTS		
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

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.

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

*AGMA Standard

Bore Tolerance: +.003, -.000

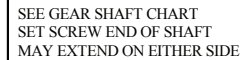
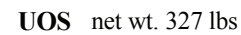
2 set screws at long end of shaft.

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

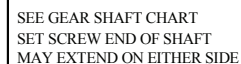
KEY: Me.HP = Mech. Input Power (HP) Th.HP = Ther. Input Power - No Fan O.T. = Output Torque (In. Lb.)

Size 25 - 50 Solid Shaft

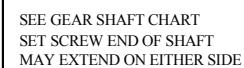
Hollow Shaft



OUS net wt. 336 lbs



OVS net wt. 345 lbs



PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

Cone Drive Double Reduction Units - 2.500" C.D. PRI./5.000" C.D. SEC. Size 25 - 50

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	0.94	4.2	5.6	6.6	8.2
	Th.HP	0.78	3.5	4.2	4.5	5.0
	O.T.	29,895	25,675	22,945	20,830	17,385
100 (5x20)	Me.HP	0.94	4.2	5.6	6.6	8.2
	Th.HP	0.78	3.5	4.2	4.5	5.0
	O.T.	37,232	32,563	29,100	26,450	22,086
125 (5x25)	Me.HP	0.77	3.9	5.3	6.6	8.2
	Th.HP	0.77	3.5	4.2	4.5	5.0
	O.T.	36,335	34,280	32,605	32,275	27,300
150 (10x15)	Me.HP	0.65	2.9	4.0	4.7	5.9
	Th.HP	0.50	2.3	3.1	3.6	4.0
	O.T.	37,465	33,065	31,105	28,660	23,680
200 (10x20)	Me.HP	0.53	2.7	3.8	4.7	5.9
	Th.HP	0.50	2.3	3.1	3.6	4.0
	O.T.	37,390	36,980	36,810	36,005	30,030
225 (15x15)	Me.HP	0.52	2.4	3.2	3.9	4.8
	Th.HP	0.35	1.6	2.2	2.6	3.2
	O.T.	39,915	39,345	36,265	33,960	28,290
250 (10x25)	Me.HP	0.42	2.2	3.1	3.8	5.4
	Th.HP	0.42	2.2	3.1	3.6	4.0
	O.T.	35,430	35,220	35,135	34,445	32,605
300 (15x20)	Me.HP	0.52	1.9	2.7	3.5	4.8
	Th.HP	0.35	1.6	2.2	2.6	3.2
	O.T.	37,390	38,200	36,980	37,330	35,830
350 (5x70)	Me.HP	0.28	1.4	1.9	2.4	3.5
	Th.HP	0.28	1.4	1.9	2.4	3.5
	O.T.	24,735	25,865	24,605	26,355	25,200
375 (15x25)	Me.HP	0.44	1.6	2.2	2.8	4.0
	Th.HP	0.35	1.6	2.2	2.6	3.2
	O.T.	35,430	36,380	35,220	35,630	34,280
400 (20x20)	Me.HP	0.29	1.5	2.2	2.8	3.7
	Th.HP	0.27	1.2	1.7	2.0	2.5
	O.T.	36,685	38,500	37,810	36,980	34,960
450 (15x30)	Me.HP	0.37	1.3	1.8	2.4	3.4
	Th.HP	0.35	1.3	1.8	2.4	3.2
	O.T.	33,395	35,010	33,890	34,350	33,065
500 (25x20)	Me.HP	0.31	1.3	1.7	2.4	3.0
	Th.HP	0.21	0.98	1.3	1.6	2.0
	O.T.	36,685	38,940	38,120	37,645	34,885
600 (20x30)	Me.HP	0.27	1.1	1.6	2.0	2.5
	Th.HP	0.18	0.82	1.1	1.3	1.7
	O.T.	36,685	38,245	38,500	38,200	32,265
625 (25x25)	Me.HP	0.25	1.1	1.4	1.9	2.6
	Th.HP	0.21	1.0	1.3	1.6	2.0
	O.T.	34,135	37,055	36,275	35,850	36,125
700 (10x70)	Me.HP	0.15	0.80	1.1	1.4	2.0
	Th.HP	0.15	0.80	1.1	1.4	2.0
	O.T.	22,445	26,005	26,340	25,990	24,605
750 (30x25)	Me.HP	0.26	0.92	1.3	1.6	2.4
	Th.HP	0.18	0.82	1.1	1.3	1.7
	O.T.	34,135	36,335	36,640	36,380	35,220
800 (40x20)	Me.HP	0.20	0.90	1.3	1.5	1.9
	Th.HP	0.13	0.62	0.84	1.0	1.3
	O.T.	36,685	38,670	38,940	36,660	30,715

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

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

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

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 arrangement follow in this section.
All units can be motorized.
Model VU & VO with motor downward require special consideration for motor clearance.
Contact Cone Drive.
Set screw end of hollow shaft is considered the extension end.
Unless specified, standard reducers are supplied with right hand helix gear sets.
Reducers are designed for shaft rotation in either direction.
For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.
Divide input RPM by primary ratio to obtain secondary input RPM.
Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.
Hand of assembly views follow in this section.
Refer to page 26 for lubrication information, efficiency and service factors.
Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

Important:

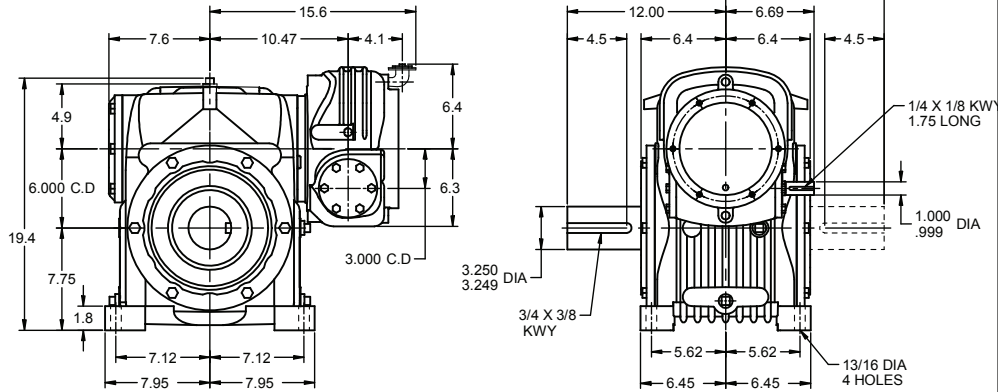
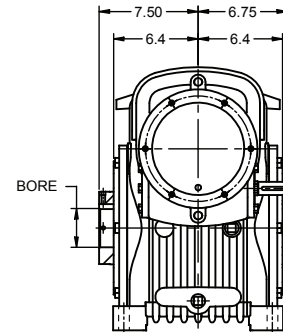
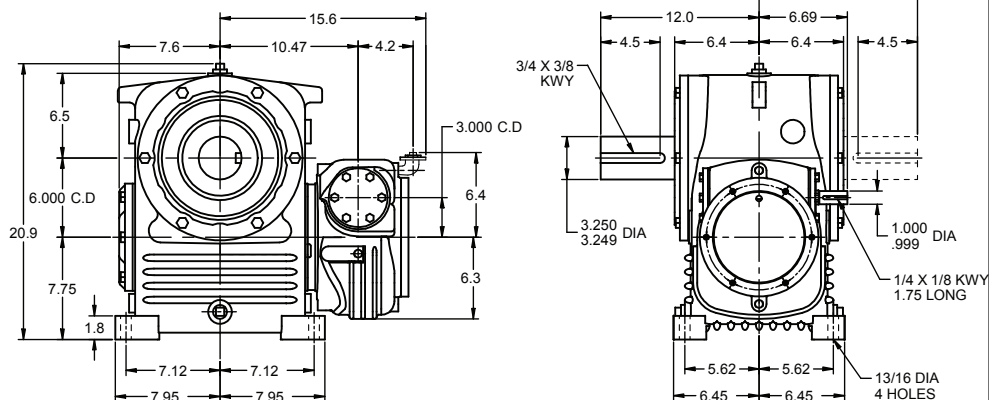
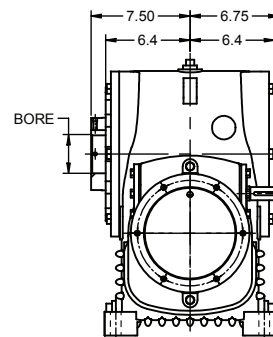
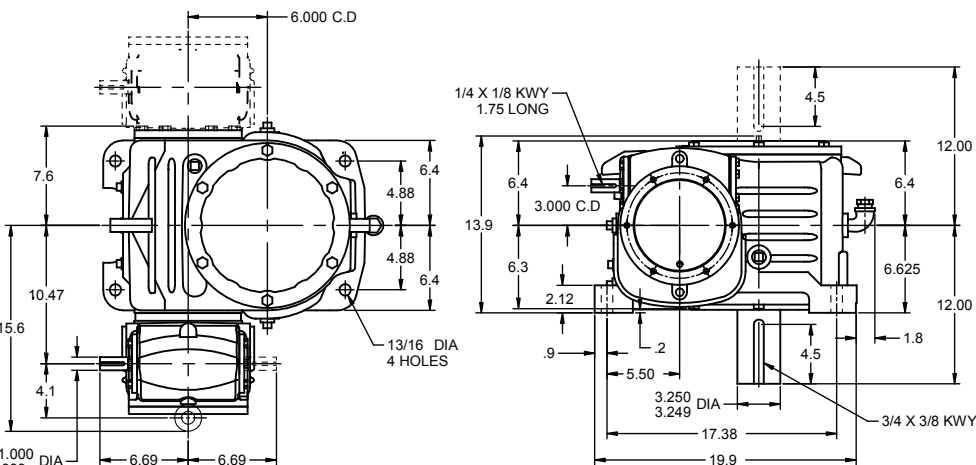
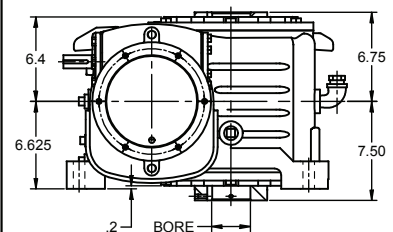
In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must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

STANDARD HOLLOW GEAR SHAFTS		
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.

Cone Drive Double Reduction Units - 3.000" C.D. PRI./6.000" C.D. SEC.**Size 30 - 60****Solid Shaft****Model UO** Shown, net. wt. 441 lbs, for all models
00 and VO configurations follow in this section.**Hollow Shaft****UOS** net wt. 456 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE**Model OU** Shown net wt. 425 lbs for all models
UU and VU configurations follow in this section.**OUS** net wt. 440 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE**Model OV** Shown net wt. 478 lbs for all models
UV and VV configurations follow in this section**OVS** net wt. 493 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDEPRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

Cone Drive Double Reduction Units - 3.000" C.D. PRI./6.000" C.D. SEC. Size 30 - 60

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	1.66	7.26	9.34	10.80	13.58
	Th.HP	1.37	3.63	4.25	4.59	5.05
	O.T.	52,940	44,140	38,275	34,285	28,675
100 (5x20)	Me.HP	1.49	7.26	9.34	10.80	13.58
	Th.HP	1.37	3.63	4.25	4.59	5.05
	O.T.	59,455	54,875	48,545	43,535	36,435
125 (5x25)	Me.HP	1.20	5.93	8.17	10.27	13.58
	Th.HP	1.20	3.63	4.25	4.59	5.05
	O.T.	56,485	52,415	50,050	50,450	44,980
150 (10x15)	Me.HP	1.08	5.17	6.84	8.03	10.05
	Th.HP	0.88	3.19	3.61	3.80	4.05
	O.T.	62,495	57,950	53,595	48,715	40,035
200 (10x20)	Me.HP	0.82	4.20	5.85	7.17	10.05
	Th.HP	0.82	3.19	3.61	3.80	4.05
	O.T.	58,540	56,840	56,160	55,150	50,775
225 (15x15)	Me.HP	0.93	3.90	5.50	6.57	8.22
	Th.HP	0.62	2.71	2.99	3.12	3.33
	O.T.	62,495	61,895	59,530	57,735	48,040
250 (10x25)	Me.HP	0.66	3.39	4.72	5.78	8.35
	Th.HP	0.66	3.19	3.61	3.80	4.05
	O.T.	55,470	54,135	53,690	52,765	50,050
300 (15x20)	Me.HP	0.86	2.98	4.20	5.36	7.61
	Th.HP	0.62	2.71	2.99	3.12	3.33
	O.T.	58,540	59,100	56,840	57,155	54,875
350 (5x70)	Me.HP	0.44	2.15	2.96	3.72	5.15
	Th.HP	0.44	2.15	2.96	3.72	5.05
	O.T.	38,560	39,480	37,700	40,060	37,600

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
1050 (15x70)	Me.HP	0.25	0.87	1.23	1.56	2.22
	Th.HP	0.25	0.87	1.23	1.56	2.22
	O.T.	35,140	41,560	40,035	40,900	39,480
1200 (40x30)	Me.HP	0.36	0.95	1.48	1.73	2.51
	Th.HP	0.24	0.95	1.46	1.72	1.93
	O.T.	51,025	54,150	55,315	54,530	53,685
1250 (50x25)	Me.HP	0.29	1.16	1.49	1.81	2.48
	Th.HP	0.19	0.88	1.17	1.38	1.73
	O.T.	53,375	57,280	56,485	57,520	56,135
1400 (20x70)	Me.HP	0.13	0.68	1.00	1.27	1.79
	Th.HP	0.13	0.68	1.00	1.27	1.79
	O.T.	31,040	41,645	41,315	40,035	40,250
1500 (50x30)	Me.HP	0.29	0.97	1.25	1.52	2.07
	Th.HP	0.19	0.88	1.17	1.38	1.73
	O.T.	51,025	54,150	53,550	55,315	53,985
1600 (40x40)	Me.HP	0.29	0.71	1.11	1.30	1.89
	Th.HP	0.24	0.71	1.11	1.30	1.89
	O.T.	43,225	47,400	49,580	48,880	48,205
1750 (25x70)	Me.HP	0.14	0.59	0.79	1.08	1.46
	Th.HP	0.14	0.59	0.79	1.08	1.46
	O.T.	31,040	42,245	41,225	40,830	41,610
1800 (60x30)	Me.HP	0.24	0.70	0.99	1.28	1.87
	Th.HP	0.16	0.70	0.98	1.15	1.44
	O.T.	51,025	52,285	54,150	53,550	54,530
2000 (50x40)	Me.HP	0.29	0.73	0.94	1.14	1.56
	Th.HP	0.19	0.73	0.94	1.14	1.56
	O.T.	43,225	47,400	46,875	49,580	48,385
2100 (30x70)	Me.HP	0.15	0.52	0.72	0.92	1.33
	Th.HP	0.15	0.52	0.72	0.92	1.33
	O.T.	31,040	38,560	41,645	41,560	40,035
2400 (60x40)	Me.HP	0.24	0.53	0.74	0.97	1.41
	Th.HP	0.16	0.53	0.74	0.97	1.41
	O.T.	43,225	45,435	47,400	46,875	48,880
2500 (50x50)	Me.HP	0.26	0.59	0.75	0.92	1.25
	Th.HP	0.19	0.59	0.75	0.92	1.25
	O.T.	38,030	42,345	41,875	43,815	42,760
2800 (40x70)	Me.HP	0.16	0.41	0.64	0.75	1.09
	Th.HP	0.16	0.41	0.64	0.75	1.09
	O.T.	31,040	38,990	42,245	41,645	41,315
3000 (60x50)	Me.HP	0.24	0.42	0.60	0.78	1.13
	Th.HP	0.16	0.42	0.60	0.78	1.13
	O.T.	38,030	40,300	42,345	41,875	43,195
3600 (60x60)	Me.HP	0.22	0.35	0.50	0.65	0.94
	Th.HP	0.16	0.35	0.50	0.65	0.94
	O.T.	34,540	39,475	41,535	41,075	42,420
4200 (60x70)	Me.HP	0.19	0.30	0.43	0.56	0.81
	Th.HP	0.16	0.30	0.43	0.56	0.81
	O.T.	31,040	35,140	38,990	38,560	41,645

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

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. Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive. Set screw end of hollow shaft is considered the extension end. Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction. For output shaft chain pull capacity, see single reduction rating chart for secondary unit size. Divide input RPM by primary ratio to obtain secondary input RPM. Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear. Hand of assembly views, follow in this section. Refer to page 26 for lubrication information, efficiency and service factors. Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

STANDARD HOLLOW GEAR SHAFTS		
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

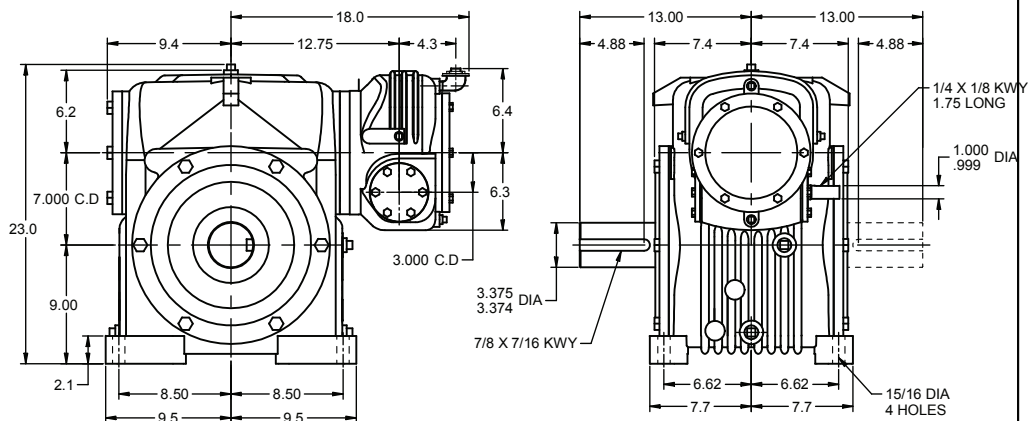
2 set screws at long end of shaft.

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

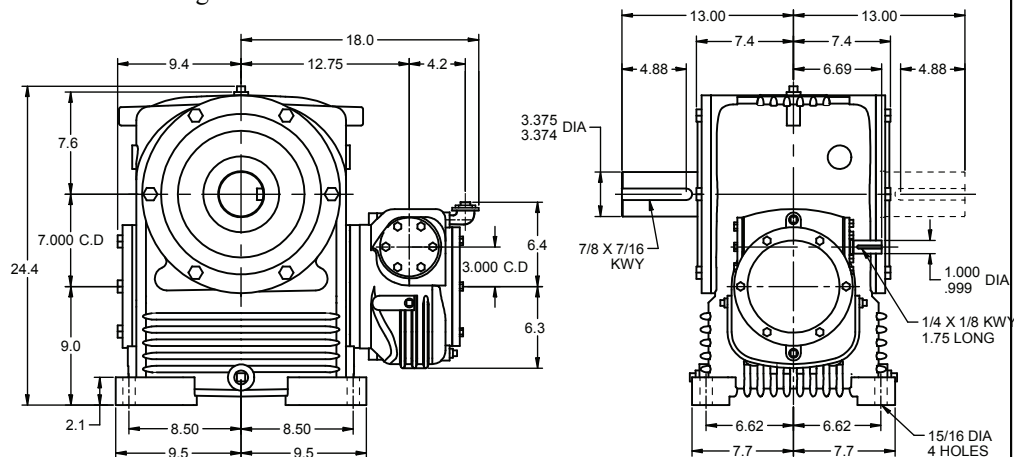
KEY: Me.HP = Mech. Input Power (HP) Th.HP = Ther. Input Power - No Fan O.T. = Output Torque (In. Lb.)

Cone Drive Double Reduction Units - 3.000" C.D. PRI./7.000" C.D. SEC.**Size 30-70****Solid Shaft**

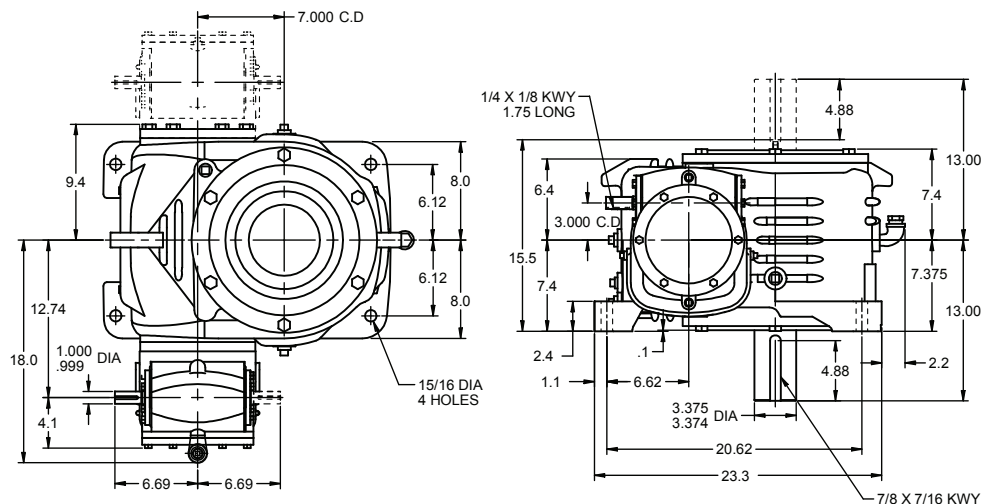
Model UO Shown, net. wt. 653 lbs, for all models
00 and VO configurations follow in this section.



Model OU Shown net wt. 672 lbs for all models
UU and VU configurations follow in this section.



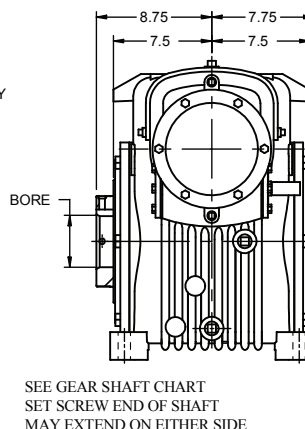
Model OV Shown net wt. 684 lbs for all models
UV and VV configurations follow in this section



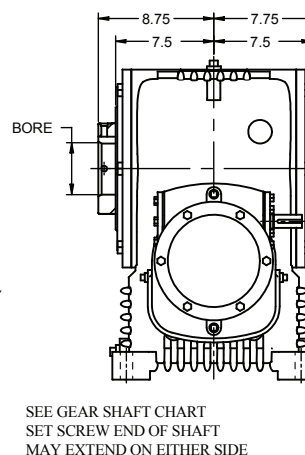
PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

Hollow Shaft

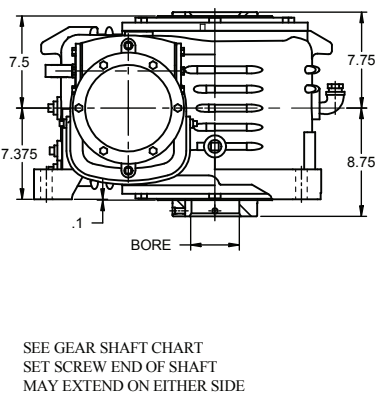
UOS net wt. 678 lbs



OUS net wt. 697 lbs



OVS net wt. 709 lbs



Cone Drive Double Reduction Units - 3.000" C.D. PRI./7.000" C.D. SEC. Size 30-70

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
100 (5x20)	Me.HP	1.66	7.26	9.34	10.80	13.58
	Th.HP	1.37	3.63	4.25	4.59	5.05
	O.T.	65,940	55,980	48,545	43,535	36,435
125 (5x25)	Me.HP	1.66	7.26	9.34	10.80	13.58
	Th.HP	1.37	3.63	4.25	4.59	5.05
	O.T.	77,785	66,385	57,565	53,060	44,980
200 (10x20)	Me.HP	1.15	5.17	6.84	8.03	10.05
	Th.HP	0.88	3.19	3.61	3.80	4.05
	O.T.	81,645	72,375	67,930	61,785	50,775
250 (10x25)	Me.HP	1.06	5.17	6.84	8.03	10.05
	Th.HP	0.88	3.19	3.61	3.80	4.05
	O.T.	88,655	85,575	80,500	73,275	60,215
300 (15x20)	Me.HP	0.93	4.20	5.59	6.57	8.22
	Th.HP	0.62	2.71	2.99	3.12	3.33
	O.T.	93,560	86,150	78,175	73,175	60,930
350 (5x70)	Me.HP	0.70	3.40	4.67	5.84	8.00
	Th.HP	0.70	3.40	4.25	4.59	5.05
	O.T.	61,445	62,510	59,550	62,880	58,400

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
1050 (15x70)	Me.HP	0.40	1.39	1.95	2.47	3.51
	Th.HP	0.40	1.39	1.95	2.47	3.33
	O.T.	56,155	66,300	63,555	64,800	62,510
1200 (40x30)	Me.HP	0.36	1.51	2.19	2.58	3.23
	Th.HP	0.24	1.09	1.46	1.72	1.93
	O.T.	81,880	86,535	88,140	85,090	70,975
1250 (50x25)	Me.HP	0.29	1.32	1.76	2.07	2.60
	Th.HP	0.19	0.88	1.17	1.38	1.73
	O.T.	75,155	83,935	76,780	71,395	58,835
1400 (20x70)	Me.HP	0.22	1.09	1.58	2.02	2.84
	Th.HP	0.22	1.09	1.58	2.02	2.84
	O.T.	49,810	66,350	65,520	63,555	63,870
1500 (50x30)	Me.HP	0.29	1.32	1.76	2.07	2.60
	Th.HP	0.19	0.88	1.17	1.38	1.73
	O.T.	81,880	86,535	85,335	81,950	67,535
1600 (40x40)	Me.HP	0.36	1.14	1.77	2.07	3.00
	Th.HP	0.24	1.09	1.46	1.72	1.93
	O.T.	69,360	75,750	79,005	77,875	76,670
1750 (25x70)	Me.HP	0.23	0.94	1.25	1.71	2.31
	Th.HP	0.23	0.94	1.25	1.71	2.31
	O.T.	49,810	67,310	65,385	64,735	66,050
1800 (60x30)	Me.HP	0.24	1.10	1.47	1.73	2.17
	Th.HP	0.16	0.73	0.98	1.15	1.44
	O.T.	81,880	83,560	83,135	75,110	64,845
2000 (50x40)	Me.HP	0.29	1.17	1.50	1.82	2.47
	Th.HP	0.19	0.88	1.17	1.38	1.73
	O.T.	69,360	75,750	74,700	79,005	76,745
2100 (30x70)	Me.HP	0.24	0.83	1.14	1.47	2.12
	Th.HP	0.24	0.83	1.14	1.47	2.12
	O.T.	49,810	61,445	66,350	66,300	63,555
2400 (60x40)	Me.HP	0.24	0.84	1.19	1.54	2.17
	Th.HP	0.16	0.73	0.98	1.15	1.44
	O.T.	69,360	72,615	75,750	74,700	77,290
2500 (50x50)	Me.HP	0.29	0.94	1.20	1.46	1.99
	Th.HP	0.19	0.88	1.17	1.38	1.73
	O.T.	61,030	67,670	66,730	69,815	67,820
2800 (40x70)	Me.HP	0.26	0.65	1.02	1.19	1.72
	Th.HP	0.24	0.65	1.02	1.19	1.72
	O.T.	49,810	62,310	67,310	66,350	65,520
3000 (60x50)	Me.HP	0.24	0.67	0.95	1.24	1.80
	Th.HP	0.16	0.67	0.95	1.15	1.44
	O.T.	61,030	64,405	67,670	66,730	68,820
3500 (50x70)	Me.HP	0.29	0.67	0.86	1.05	1.42
	Th.HP	0.19	0.67	0.86	1.05	1.42
	O.T.	49,810	62,310	61,445	67,310	65,385
3600 (60x60)	Me.HP	0.24	0.56	0.80	1.03	1.50
	Th.HP	0.16	0.56	0.80	1.03	1.44
	O.T.	55,430	63,090	66,375	65,455	67,585
4200 (60x70)	Me.HP	0.24	0.48	0.68	0.88	1.29
	Th.HP	0.16	0.48	0.68	0.88	1.29
	O.T.	49,810	56,155	62,310	61,445	66,350

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.

Model VU & VO with motor downward require special consideration for motor clearance.

Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets.

Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views follow in this section.

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

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

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

STANDARD HOLLOW GEAR SHAFTS

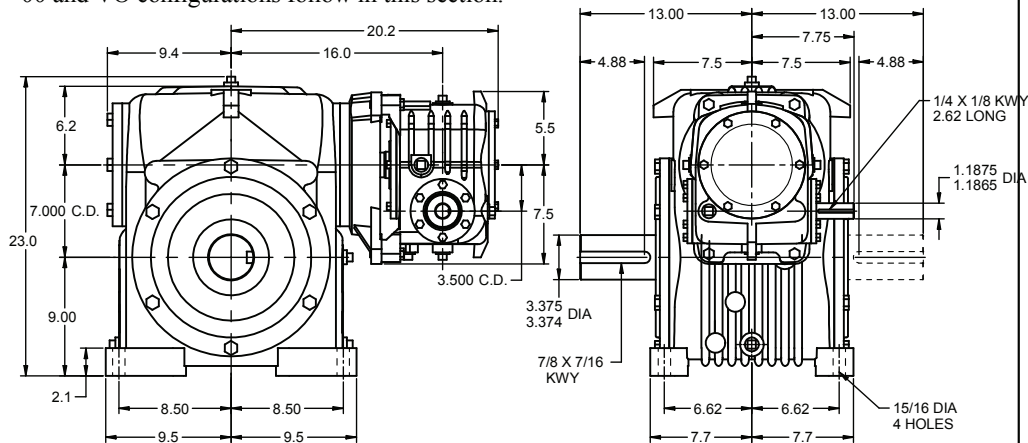
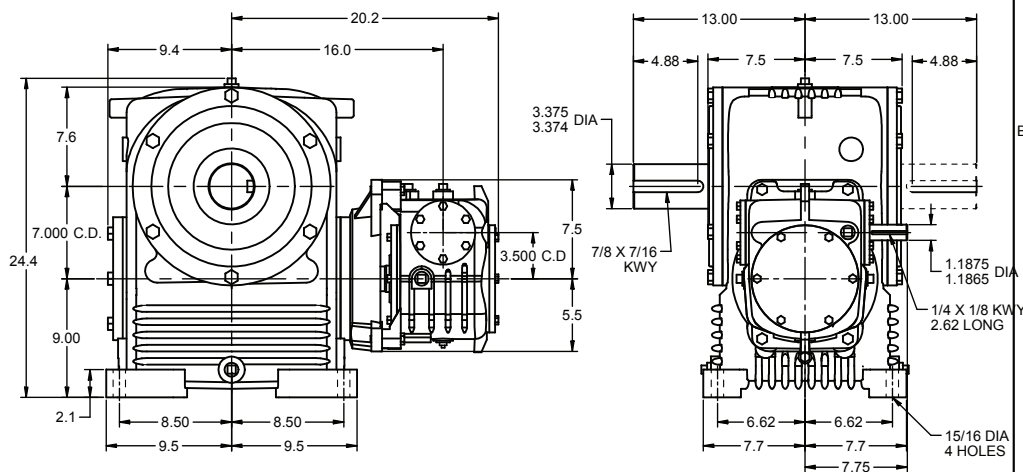
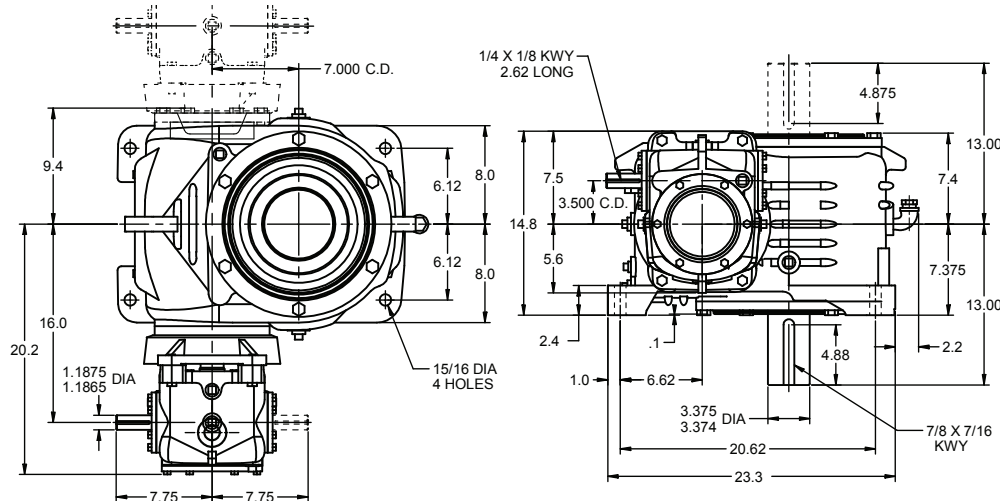
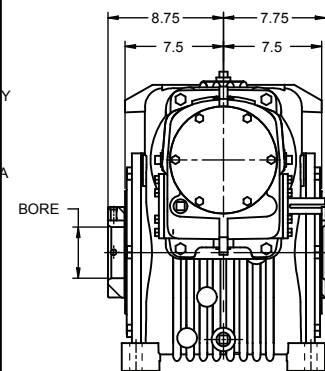
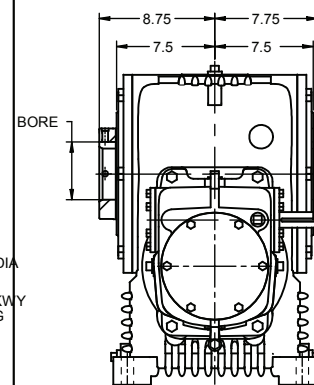
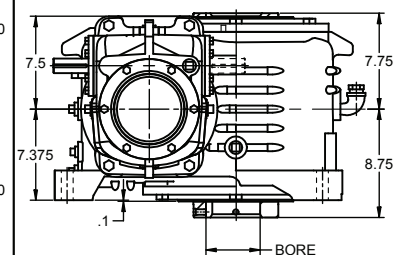
BORE INCHES	GEARSHAFT NUMBER	KEYWAY SIZE
4.4375*	80-S60-407	1 X 1/2
3.9375*	80-S60-315	1 X 1/2

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

*AGMA Standard
Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

Important:

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

Cone Drive Double Reduction Units - 3.500" C.D. PRI./7.000" C.D. SEC.**Size 35-70
Solid Shaft****Model UO** Shown, net. wt. 740 lbs, for all models
00 and VO configurations follow in this section.**Model OU** Shown net wt. 800 lbs for all models
UU and VU configurations follow in this section.**Model OV** Shown net wt. 800 lbs for all models
UV and VV configurations follow in this sectionPRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.**Hollow Shaft****UOS** net wt. 765 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE**OUS** net wt. 825 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE**OVS** net wt. 825 lbsSEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Cone Drive Double Reduction Units - 3.500" C.D. PRI./7.000" C.D. SEC. Size 35-70

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	3.06	12.97	16.37	19.11	23.54
	Th.HP	2.55	8.09	9.77	10.55	11.61
	O.T.	97,930	78,835	67,070	60,665	49,710
100 (5x20)	Me.HP	2.39	11.64	15.99	19.11	23.54
	Th.HP	2.39	8.09	9.77	10.55	11.61
	O.T.	95,010	86,735	82,620	77,035	63,160
125 (5x25)	Me.HP	1.92	9.39	12.90	16.11	22.05
	Th.HP	1.92	8.09	9.77	10.55	11.61
	O.T.	90,265	82,990	79,055	79,185	73,020
150 (10x15)	Me.HP	1.72	8.70	12.00	13.92	17.37
	Th.HP	1.63	6.57	7.67	8.25	8.80
	O.T.	99,880	94,215	91,655	84,410	69,205
200 (10x20)	Me.HP	1.32	6.67	9.26	11.33	16.35
	Th.HP	1.32	6.57	7.67	8.25	8.80
	O.T.	93,560	90,240	88,815	87,180	82,620
225 (15x15)	Me.HP	1.71	6.21	8.70	11.05	14.27
	Th.HP	1.14	5.04	6.16	6.51	6.95
	O.T.	99,880	98,450	94,215	93,005	83,420
250 (10x25)	Me.HP	1.06	5.38	7.48	9.14	13.19
	Th.HP	1.06	5.38	7.48	8.25	8.80
	O.T.	88,655	85,940	85,050	83,410	79,055
300 (15x20)	Me.HP	1.38	4.74	6.67	8.46	12.03
	Th.HP	1.14	4.74	6.16	6.51	6.95
	O.T.	93,560	94,005	90,240	90,270	86,735
375 (15x25)	Me.HP	1.11	3.83	5.38	6.81	9.71
	Th.HP	1.11	3.83	5.38	6.51	6.95
	O.T.	88,655	89,790	85,940	86,160	82,990
400 (20x20)	Me.HP	0.74	3.72	5.40	6.91	9.69
	Th.HP	0.74	3.72	5.03	5.58	5.82
	O.T.	92,050	94,660	92,890	90,240	88,815
500 (25x20)	Me.HP	0.78	3.23	4.29	5.86	7.90
	Th.HP	0.71	3.12	4.06	4.64	4.82
	O.T.	92,050	96,310	93,560	91,775	92,010
600 (30x20)	Me.HP	0.81	2.83	3.91	5.04	7.26
	Th.HP	0.59	2.62	3.41	3.95	4.17
	O.T.	92,050	95,010	94,660	94,005	90,240
800 (40x20)	Me.HP	0.67	2.24	3.49	4.06	5.57
	Th.HP	0.44	1.97	2.57	2.98	3.64
	O.T.	92,050	96,350	96,310	94,660	90,265
900 (30x30)	Me.HP	0.55	1.91	2.64	3.41	4.90
	Th.HP	0.55	1.91	2.64	3.41	4.17
	O.T.	81,880	85,335	86,880	86,405	82,700
1000 (50x20)	Me.HP	0.53	2.31	2.95	3.59	4.50
	Th.HP	0.36	1.58	2.06	2.39	3.00
	O.T.	92,050	96,350	95,010	96,310	86,305
1200 (40x30)	Me.HP	0.61	1.51	2.36	2.75	3.99
	Th.HP	0.44	1.51	2.36	2.75	3.64
	O.T.	81,880	86,535	88,140	86,880	85,385
1250 (50x25)	Me.HP	0.53	1.86	2.38	2.89	3.93
	Th.HP	0.36	1.58	2.06	2.39	3.00
	O.T.	85,655	91,540	90,265	91,650	89,035
1500 (50x30)	Me.HP	0.53	1.56	1.99	2.42	3.29
	Th.HP	0.36	1.56	1.99	2.39	3.00
	O.T.	81,880	86,535	85,335	88,140	85,620
1800 (60x30)	Me.HP	0.45	1.12	1.58	2.05	2.98
	Th.HP	0.30	1.12	1.58	1.99	2.50
	O.T.	81,880	83,560	86,535	85,335	86,880

CAUTION:

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

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.

Model VU & VO with motor downward require special consideration for motor clearance.

Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets.

Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views, follow in this section.

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

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

STANDARD HOLLOW GEAR SHAFTS

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

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

*AGMA Standard

Bore Tolerance: +.003, -.000

2 set screws at long end of shaft.

Important:

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

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

KEY: Me.HP = Mech. Input Power (HP)

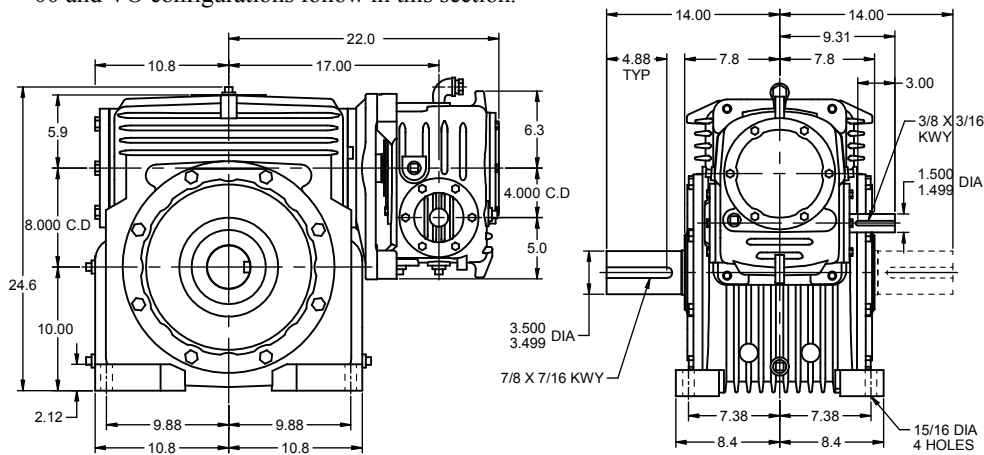
Th.HP = Thermal Input Power - No Fan

O.T. = Output Torque (In. Lb.)

Cone Drive Double Reduction Units - 4.000" C.D. PRI./8.000" C.D. SEC.

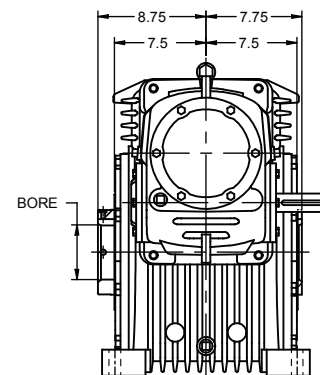
Size 40 - 80 Solid Shaft

Model UO Shown, net. wt. 950 lbs, for all models
00 and VO configurations follow in this section.



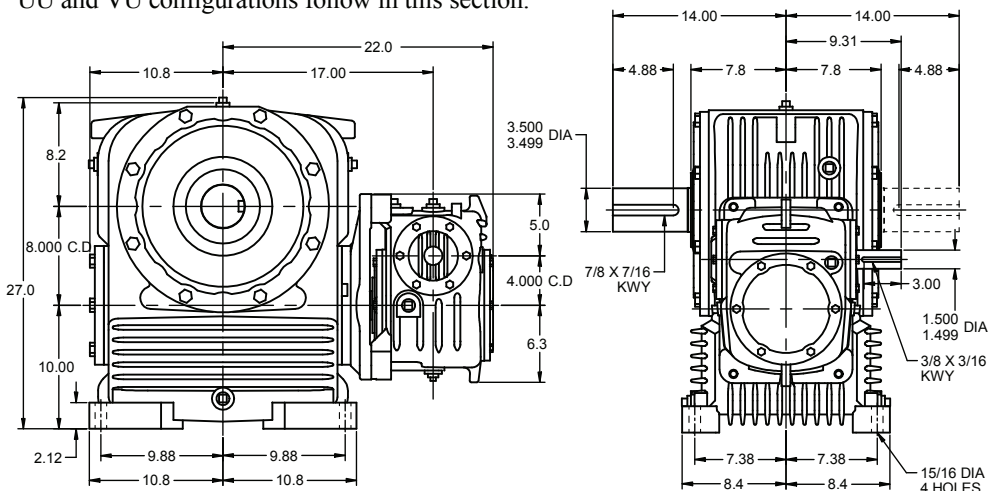
Hollow Shaft

UOS net wt. 980 lbs

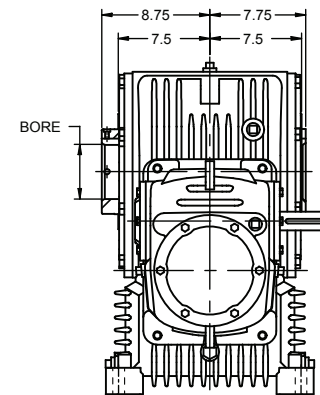


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model OU Shown net wt. 1050 lbs for all models
UU and VU configurations follow in this section.

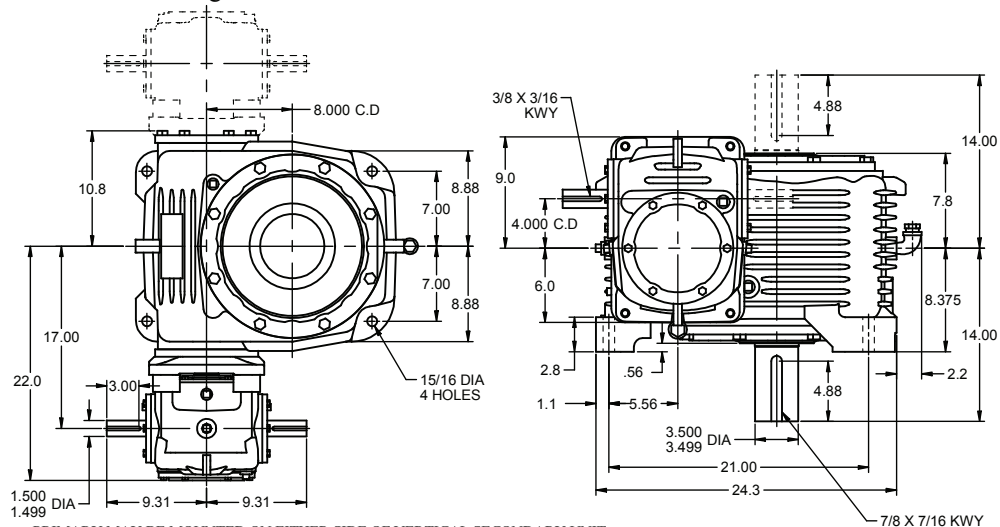


OUS net wt. 1080 lbs

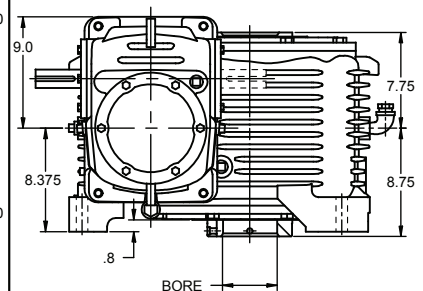


SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

Model OV Shown net wt. 965 lbs for all models
UV and VV configurations follow in this section



OVS net wt. 995 lbs



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

Cone Drive Double Reduction Units - 4.000" C.D. PRI./8.000" C.D. SEC. Size 40 - 80

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	4.39	17.98	22.40	25.99	31.84
	Th.HP	3.53	9.80	11.83	12.78	14.06
	O.T.	144,945	112,900	94,785	85,220	69,415
100 (5x20)	Me.HP	3.47	16.84	22.40	25.99	31.84
	Th.HP	3.47	9.80	11.83	12.78	14.06
	O.T.	142,620	129,680	120,210	108,220	88,200
125 (5x25)	Me.HP	2.79	13.57	18.61	23.23	31.47
	Th.HP	2.79	9.80	11.83	12.78	14.06
	O.T.	135,495	123,865	117,735	117,860	107,630
150 (10x15)	Me.HP	2.49	12.57	16.59	19.30	23.88
	Th.HP	2.35	7.96	9.30	9.99	10.66
	O.T.	149,940	140,720	134,280	120,965	98,350
200 (10x20)	Me.HP	1.91	9.64	13.37	16.37	23.56
	Th.HP	1.91	7.96	9.30	9.99	10.66
	O.T.	140,450	134,790	132,605	130,125	123,040
225 (15x15)	Me.HP	2.47	8.97	12.57	15.73	19.58
	Th.HP	1.65	6.58	7.46	7.89	8.42
	O.T.	149,940	147,320	140,720	138,875	118,375
250 (10x25)	Me.HP	1.54	7.76	10.77	13.21	19.01
	Th.HP	1.54	7.76	9.30	9.99	10.66
	O.T.	133,085	128,365	126,570	124,500	117,735
300 (15x20)	Me.HP	2.00	6.86	9.64	12.21	17.40
	Th.HP	1.65	6.58	7.46	7.89	8.42
	O.T.	140,450	140,665	134,790	134,790	129,680
350 (5x70)	Me.HP	1.01	4.91	6.75	8.42	11.44
	Th.HP	1.01	4.91	6.75	8.42	11.44
	O.T.	92,230	93,305	88,845	93,595	86,265
375 (15x25)	Me.HP	1.61	5.52	7.76	9.85	14.01
	Th.HP	1.61	5.52	7.46	7.89	8.42
	O.T.	133,085	133,965	128,365	128,865	123,865
400 (20x20)	Me.HP	1.07	5.38	7.80	9.97	13.98
	Th.HP	1.07	5.38	6.50	6.76	7.05
	O.T.	138,565	141,870	138,985	134,790	132,605
450 (15x30)	Me.HP	1.35	4.64	6.50	8.26	11.74
	Th.HP	1.35	4.64	6.50	7.89	8.42
	O.T.	125,440	129,300	123,530	124,235	119,485
500 (25x20)	Me.HP	1.13	4.66	6.23	8.46	11.36
	Th.HP	1.02	4.40	5.47	5.62	5.84
	O.T.	138,565	143,945	140,835	137,305	136,975
600 (30x20)	Me.HP	1.17	4.09	5.64	7.27	10.21
	Th.HP	0.85	3.69	4.71	4.91	5.05
	O.T.	138,565	142,620	141,870	140,665	134,790
625 (25x25)	Me.HP	0.91	3.75	5.02	6.83	9.16
	Th.HP	0.91	3.75	5.02	5.62	5.84
	O.T.	128,940	136,980	134,025	130,965	130,950
700 (10x70)	Me.HP	0.56	2.81	3.91	4.79	6.89
	Th.HP	0.56	2.81	3.91	4.79	6.89
	O.T.	84,300	94,935	95,205	93,940	88,845
750 (30x25)	Me.HP	0.95	3.29	4.54	5.86	8.42
	Th.HP	0.85	3.29	4.54	4.91	5.05
	O.T.	128,940	135,495	135,010	133,965	128,365
800 (40x20)	Me.HP	0.96	3.23	5.02	5.86	7.68
	Th.HP	0.64	2.78	3.55	4.13	4.41
	O.T.	138,565	144,430	143,945	141,870	129,245
900 (30x30)	Me.HP	0.79	2.76	3.81	4.92	7.05
	Th.HP	0.79	2.76	3.81	4.91	5.05
	O.T.	123,260	128,095	129,835	129,300	123,530
1000 (50x20)	Me.HP	0.77	3.32	4.25	4.97	6.16
	Th.HP	0.52	2.23	2.85	3.31	3.92
	O.T.	138,565	144,430	142,620	143,945	122,985
1050 (15x70)	Me.HP	0.58	2.01	2.81	3.57	5.07
	Th.HP	0.58	2.01	2.81	3.57	5.07
	O.T.	84,300	99,215	94,935	96,765	93,305

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

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

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
1200 (40x30)	Me.HP	0.88	2.18	3.38	3.95	5.73
	Th.HP	0.64	2.18	3.38	3.95	4.41
	O.T.	123,260	129,720	131,730	129,835	127,375
1250 (50x25)	Me.HP	0.77	2.67	3.42	4.15	5.68
	Th.HP	0.52	2.23	2.85	3.31	3.92
	O.T.	128,940	137,220	135,495	136,980	134,025
1400 (20x70)	Me.HP	0.31	1.57	2.28	2.91	4.09
	Th.HP	0.31	1.57	2.28	2.91	4.09
	O.T.	74,980	99,150	98,035	94,935	95,205
1500 (50x30)	Me.HP	0.77	2.24	2.87	3.47	4.76
	Th.HP	0.52	2.23	2.85	3.31	3.92
	O.T.	123,260	129,720	128,095	131,730	128,885
1600 (40x40)	Me.HP	0.66	1.64	2.56	2.97	4.31
	Th.HP	0.64	1.64	2.56	2.97	4.31
	O.T.	104,410	113,555	118,585	116,375	114,375
1750 (25x70)	Me.HP	0.33	1.36	1.82	2.47	3.32
	Th.HP	0.33	1.36	1.82	2.47	3.32
	O.T.	74,980	101,035	98,425	96,705	98,175
1800 (60x30)	Me.HP	0.64	1.60	2.27	2.95	4.28
	Th.HP	0.43	1.60	2.27	2.76	3.43
	O.T.	123,260	125,440	129,720	128,095	129,835
2000 (50x40)	Me.HP	0.74	1.68	2.16	2.62	3.58
	Th.HP	0.52	1.68	2.16	2.62	3.58
	O.T.	104,410	113,555	112,130	118,585	115,525
2100 (30x70)	Me.HP	0.34	1.19	1.65	2.13	3.05
	Th.HP	0.34	1.19	1.65	2.13	3.05
	O.T.	74,980	92,230	99,150	99,215	94,935
2400 (60x40)	Me.HP	0.64	1.21	1.71	2.22	3.22
	Th.HP	0.43	1.21	1.71	2.22	3.22
	O.T.	104,410	109,005	113,555	112,130	116,375
2500 (50x50)	Me.HP	0.59	1.35	1.73	2.10	2.87
	Th.HP	0.52	1.35	1.73	2.10	2.87
	O.T.	91,870	101,435	100,165	104,795	102,090
2800 (40x70)	Me.HP	0.38	0.94	1.47	1.71	2.48
	Th.HP	0.38	0.94	1.47	1.71	2.48
	O.T.	74,980	93,405	101,035	99,150	98,035
3000 (60x50)	Me.HP	0.61	0.97	1.37	1.78	2.58
	Th.HP	0.43	0.97	1.37	1.78	2.58
	O.T.	91,870	96,685	101,435	100,165	102,845
3600 (60x60)	Me.HP	0.51	0.81	1.14	1.48	2.15
	Th.HP	0.43	0.81	1.14	1.48	2.15
	O.T.	83,435	94,710	99,500	98,250	101,000
4200 (60x70)	Me.HP	0.43	0.69	0.98	1.27	1.85
	Th.HP	0.43	0.69	0.98	1.27	1.85
	O.T.	74,980	84,300	93,405	92,230	99,150

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

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

*AGMA Standard
Bore Tolerance: +.003, -.000
2 set screws at long end of shaft.

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

CAUTION:

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

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. Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for

secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

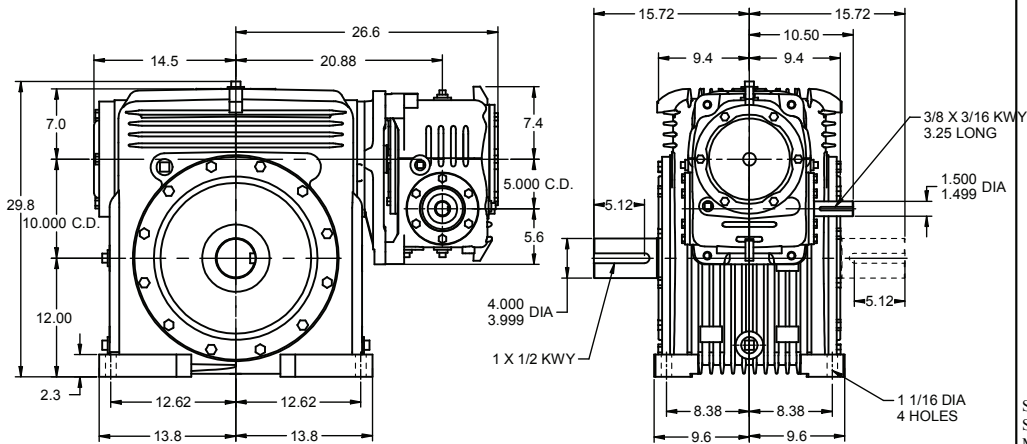
Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views follow in this section.

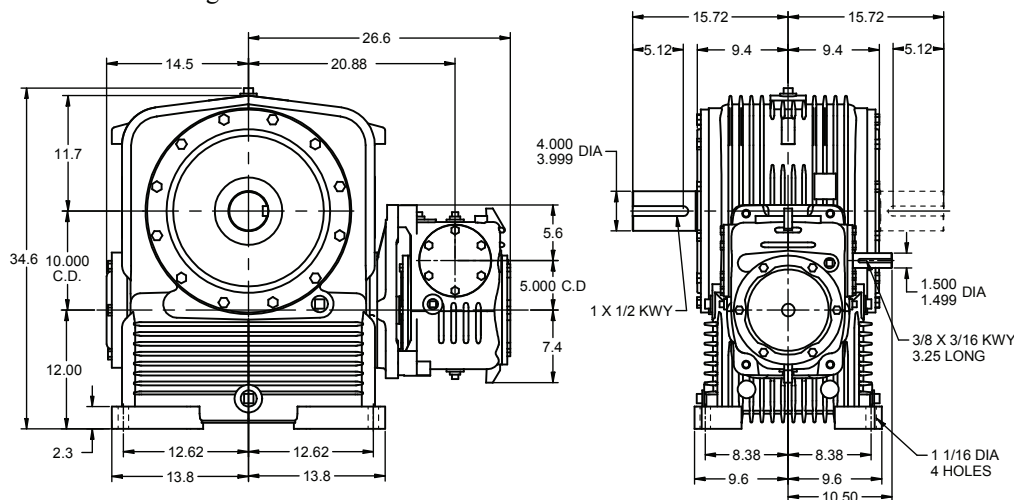
Refer to page 26 for lubrication information, efficiency and service factors. Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

Cone Drive Double Reduction Units - 5.000" C.D. PRI./10.000" C.D. SEC.**Size 50-100
Solid Shaft**

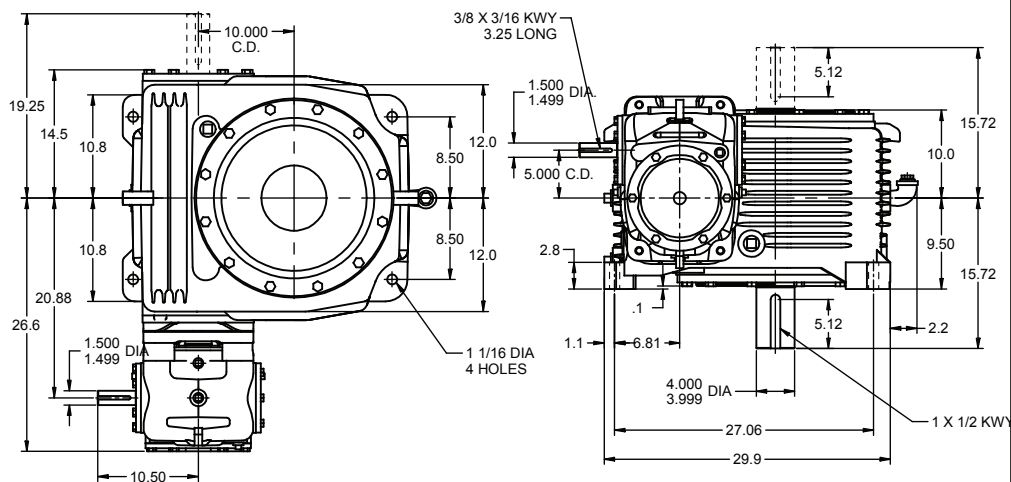
Model UO Shown, net. wt. 1755 lbs, for all models
00 and VO configurations follow in this section.



Model OU Shown net wt. 1995 lbs for all models
UU and VU configurations follow in this section.



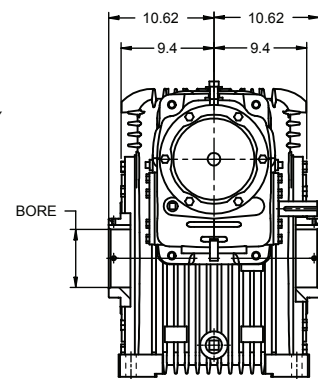
Model OV Shown net wt. 1940 lbs for all models
UV and VV configurations follow in this section



PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
BORE AND SET SCREW END OF SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED

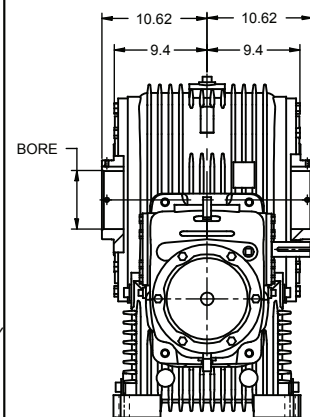
Hollow Shaft

UOS net wt. 1805 lbs



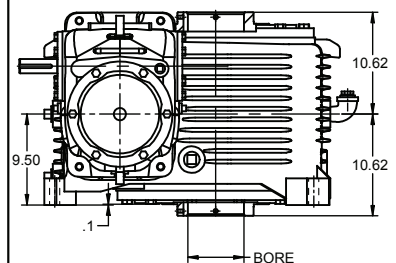
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

OUS net wt. 2045 lbs



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

OVS net wt. 1990 lbs



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

Cone Drive Double Reduction Units - 5.000" C.D. PRI./10.000" C.D. SEC. Size 50-100

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	8.59	33.96	42.19	48.26	58.80
	Th.HP	4.41	12.24	14.77	15.96	17.55
	O.T.	291,370	218,465	182,835	162,010	131,225
100 (5x20)	Me.HP	6.57	31.64	42.19	48.26	58.80
	Th.HP	4.41	12.24	14.77	15.96	17.55
	O.T.	277,970	249,835	232,170	205,965	166,925
125 (5x25)	Me.HP	5.31	25.53	34.52	42.56	56.00
	Th.HP	4.41	12.24	14.77	15.96	17.55
	O.T.	265,665	239,375	224,285	221,525	196,305
150 (10x15)	Me.HP	4.78	23.55	30.43	35.34	43.33
	Th.HP	3.93	9.93	11.60	12.47	13.31
	O.T.	295,335	270,360	252,375	226,895	182,800
200 (10x20)	Me.HP	3.66	18.03	25.14	30.86	43.33
	Th.HP	3.66	9.93	11.60	12.47	13.31
	O.T.	277,285	259,000	255,805	251,590	232,125
225 (15x15)	Me.HP	4.87	16.91	23.55	28.85	35.33
	Th.HP	3.25	8.22	9.31	9.85	10.52
	O.T.	295,335	284,725	270,360	267,220	218,780
250 (10x25)	Me.HP	2.94	14.57	20.28	24.86	35.26
	Th.HP	2.94	9.93	11.60	12.47	13.31
	O.T.	263,215	247,825	244,915	240,630	224,285
300 (15x20)	Me.HP	3.83	12.95	18.03	22.94	32.68
	Th.HP	3.25	8.22	9.31	9.85	10.52
	O.T.	277,285	272,740	259,000	259,700	249,835
350 (5x70)	Me.HP	1.92	9.26	12.52	15.44	20.36
	Th.HP	1.92	9.26	12.52	15.44	17.55
	O.T.	183,400	182,270	170,800	177,155	158,435

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
1200 (40x30)	Me.HP	1.69	4.17	6.42	7.53	10.83
	Th.HP	1.26	4.17	5.14	5.32	5.50
	O.T.	245,570	255,940	257,570	254,930	247,965
1250 (50x25)	Me.HP	1.52	5.11	6.52	7.87	10.74
	Th.HP	1.01	3.84	4.27	4.57	4.89
	O.T.	256,465	270,230	265,665	267,490	260,830
1400 (20x70)	Me.HP	0.60	2.99	4.30	5.46	7.69
	Th.HP	0.60	2.99	4.30	5.46	7.69
	O.T.	152,650	196,515	191,995	184,885	185,645
1500 (50x30)	Me.HP	1.52	4.28	5.46	6.59	9.00
	Th.HP	1.01	3.84	4.27	4.57	4.89
	O.T.	245,570	255,940	251,610	257,570	251,160
1600 (40x40)	Me.HP	1.27	3.13	4.83	5.66	8.14
	Th.HP	1.26	3.13	4.83	5.32	5.50
	O.T.	209,290	225,040	231,675	229,300	223,405
1750 (25x70)	Me.HP	0.63	2.58	3.44	4.66	6.24
	Th.HP	0.63	2.58	3.44	4.66	6.24
	O.T.	152,650	198,550	193,605	189,625	191,595
1800 (60x30)	Me.HP	1.27	3.07	4.34	5.61	8.15
	Th.HP	0.84	3.07	3.79	4.13	4.40
	O.T.	245,570	248,595	255,940	251,610	254,930
2000 (50x40)	Me.HP	1.43	3.22	4.11	4.96	6.77
	Th.HP	1.01	3.22	4.11	4.57	4.89
	O.T.	209,290	225,040	221,235	231,675	225,910
2100 (30x70)	Me.HP	0.66	2.27	3.14	4.01	5.72
	Th.HP	0.66	2.27	3.14	4.01	5.72
	O.T.	152,650	183,400	196,515	194,665	184,885

CAUTION:

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

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.

Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views follow in this section. Refer to page 26 for lubrication information, efficiency and service factors.

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

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

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

Bore Tolerance: +.004, -.000

2 set screws at long end of shaft.

Important:

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

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

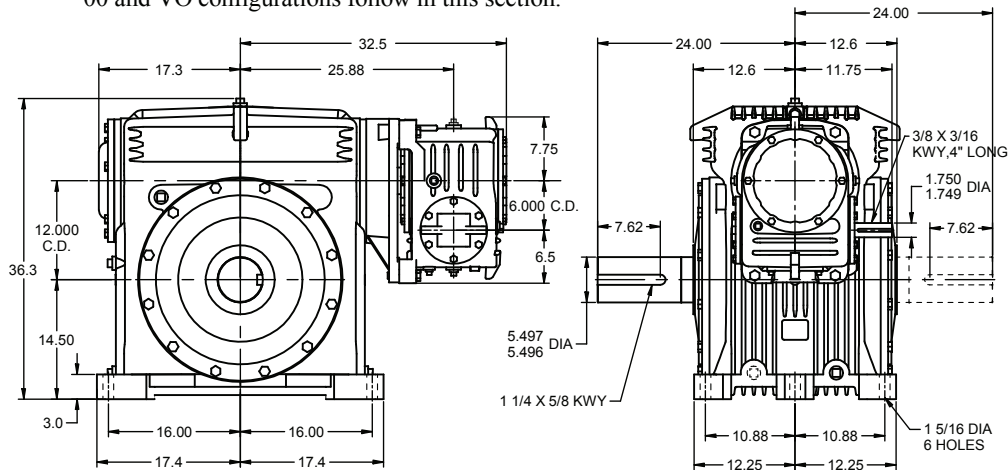
KEY: Me.HP = Mech. Input Power (HP)

Th.HP = Ther. Input Power - No Fan

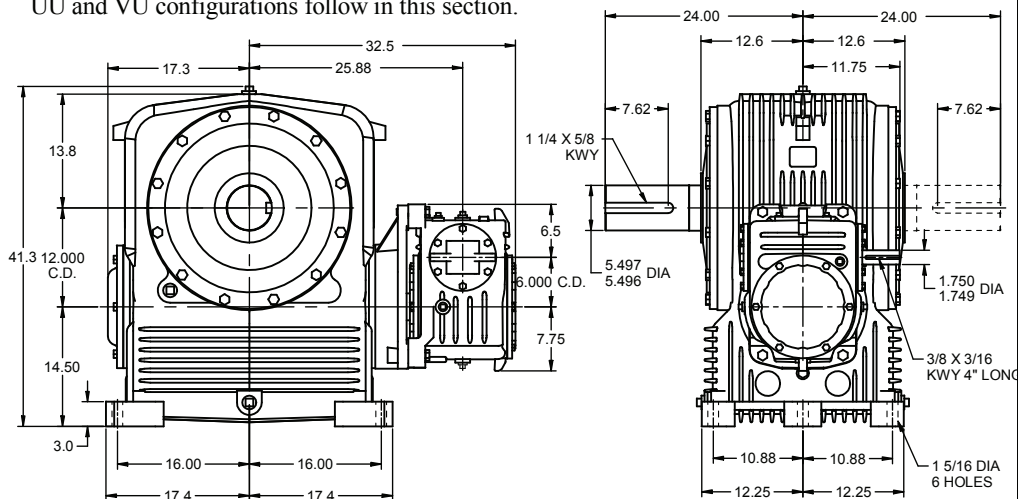
O.T. = Output Torque (In. Lb.)

Cone Drive Double Reduction Units - 6.000" C.D. PRI./12.000" C.D. SEC.**Size 60-120
Solid Shaft**

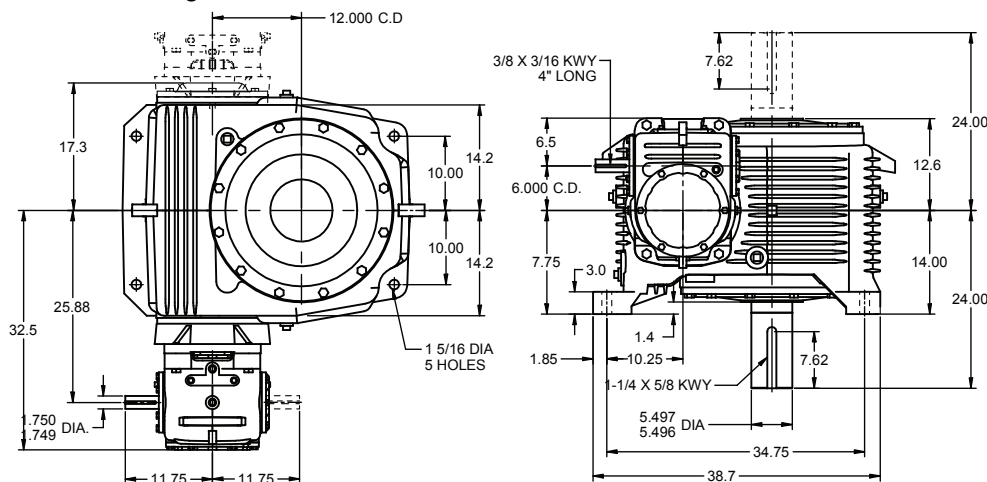
Model UO Shown, net. wt. 3370 lbs, for all models
00 and VO configurations follow in this section.



Model OU Shown net wt. 3510 lbs for all models
UU and VU configurations follow in this section.



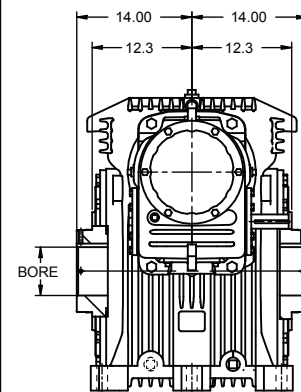
Model OV Shown net wt. 3315 lbs for all models
UV and VV configurations follow in this section.



PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

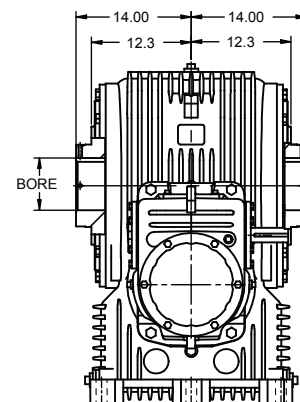
Hollow Shaft

UOS net wt. 3420 lbs



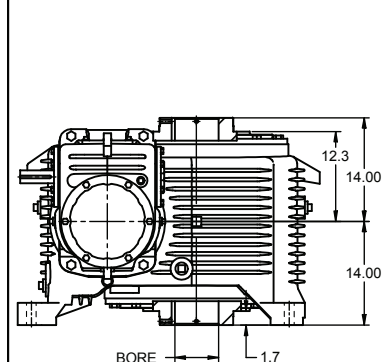
SEE GEAR SHAFT CHART
SET SCREW END OF SHAFT
MAY EXTEND ON EITHER SIDE

OOS net wt. 3560 lbs



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

OVS net wt. 3400 lbs



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

Cone Drive Double Reduction Units - 6.000" C.D. PRI./12.000" C.D. SEC. Size 60-120

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	13.31	48.28	59.84	68.35	79.85
	Th.HP	6.28	17.44	21.04	22.73	25.01
	O.T.	451,330	310,590	259,340	229,425	178,200
100 (5x20)	Me.HP	11.24	48.28	59.84	68.35	79.85
	Th.HP	6.28	17.44	21.04	22.73	25.01
	O.T.	475,385	394,400	329,320	291,675	226,675
125 (5x25)	Me.HP	9.05	43.06	57.65	68.35	79.85
	Th.HP	6.28	17.44	21.04	22.73	25.01
	O.T.	452,385	403,720	374,620	355,700	279,930
150 (10x15)	Me.HP	8.23	35.27	43.82	50.62	60.62
	Th.HP	5.59	14.15	16.53	17.77	18.97
	O.T.	508,205	418,900	363,470	324,945	255,715
200 (10x20)	Me.HP	6.29	30.53	42.66	50.62	60.62
	Th.HP	5.59	14.15	16.53	17.77	18.97
	O.T.	477,145	438,570	434,100	412,630	324,715
225 (15x15)	Me.HP	7.46	28.80	35.75	41.22	49.71
	Th.HP	4.75	11.71	13.27	14.03	14.98
	O.T.	508,205	484,980	424,570	383,760	307,800
250 (10x25)	Me.HP	5.07	24.67	34.42	42.01	58.89
	Th.HP	5.07	14.15	16.53	17.77	18.97
	O.T.	452,935	419,680	415,635	406,625	374,620
300 (15x20)	Me.HP	6.60	22.02	30.53	38.87	49.71
	Th.HP	4.75	11.71	13.27	14.03	14.98
	O.T.	477,145	463,855	438,570	440,110	390,860
350 (5x70)	Me.HP	3.29	15.61	20.91	25.35	32.50
	Th.HP	3.29	15.61	20.91	22.73	25.01
	O.T.	313,670	307,420	285,305	290,895	252,840

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
1200 (40x30)	Me.HP	2.91	7.16	11.03	12.84	18.33
	Th.HP	1.93	7.16	7.32	7.58	7.84
	O.T.	424,370	439,720	442,345	434,495	419,635
1250 (50x25)	Me.HP	2.33	8.78	11.10	12.92	15.74
	Th.HP	1.55	5.47	6.09	6.50	6.97
	O.T.	443,200	464,275	452,385	459,385	382,110
1400 (20x70)	Me.HP	1.04	5.09	7.30	9.25	13.05
	Th.HP	1.04	5.09	7.30	9.25	12.54
	O.T.	263,800	334,930	325,950	313,610	315,065
1500 (50x30)	Me.HP	2.33	7.35	9.30	11.32	15.29
	Th.HP	1.55	5.47	6.09	6.50	6.97
	O.T.	424,370	439,720	428,460	442,345	426,640
1600 (40x40)	Me.HP	2.20	5.38	8.30	9.65	13.83
	Th.HP	1.93	5.38	7.32	7.58	7.84
	O.T.	361,680	386,635	397,875	390,810	379,270
1750 (25x70)	Me.HP	1.09	4.43	5.85	7.89	10.58
	Th.HP	1.09	4.43	5.85	7.89	10.39
	O.T.	263,800	340,985	329,890	320,810	324,845
1800 (60x30)	Me.HP	1.95	5.29	7.46	9.56	13.13
	Th.HP	1.29	4.83	5.40	5.89	6.27
	O.T.	424,370	427,775	439,720	428,460	422,380
2000 (50x40)	Me.HP	2.33	5.53	7.02	8.51	11.50
	Th.HP	1.55	5.47	6.09	6.50	6.97
	O.T.	361,680	386,635	378,385	397,875	383,750
2100 (30x70)	Me.HP	1.14	3.88	5.34	6.82	9.70
	Th.HP	1.14	3.88	5.34	6.82	8.99
	O.T.	263,800	313,670	334,930	330,575	313,610

CAUTION:

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

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 arrangement follow in this section.

All units can be motorized.

Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views follow in this section. Refer to page 26 for lubrication information, efficiency and service factors.

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

STANDARD HOLLOW GEAR SHAFTS

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.

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.

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

KEY: Me.HP = Mech. Input Power (HP)

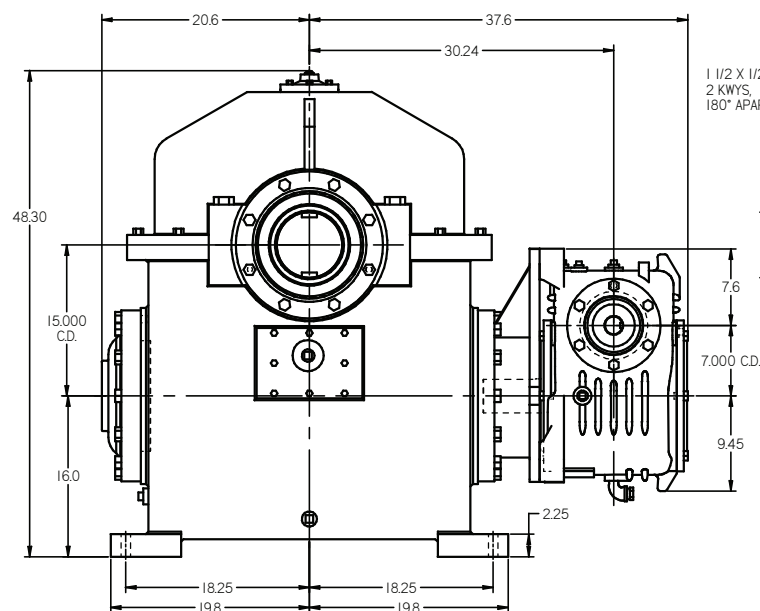
Th.HP = Ther. Input Power - No Fan

O.T. = Output Torque (In. Lb.)

Cone Drive Double Reduction Units - 7.000" C.D. PRI./15.000" C.D. SEC.

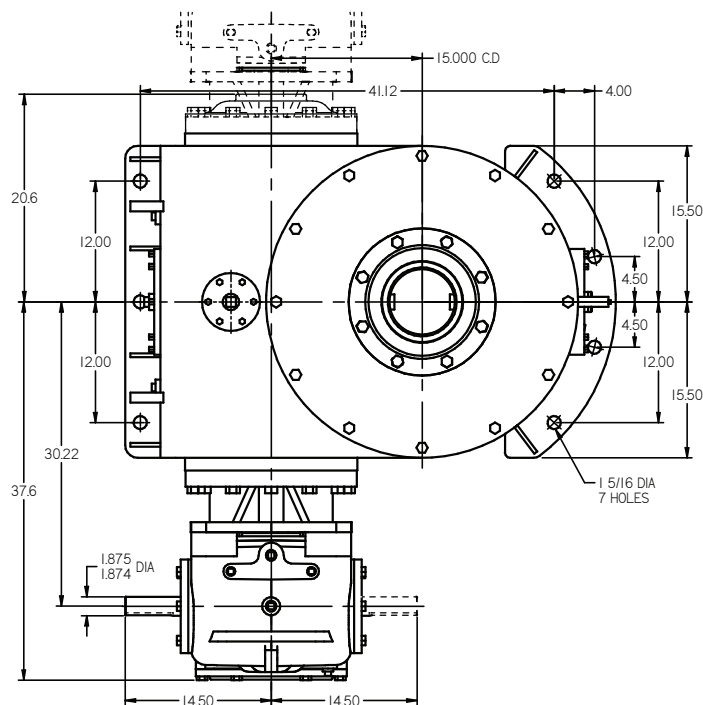
Size 70-150 Solid Shaft

Model OU Shown.



PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

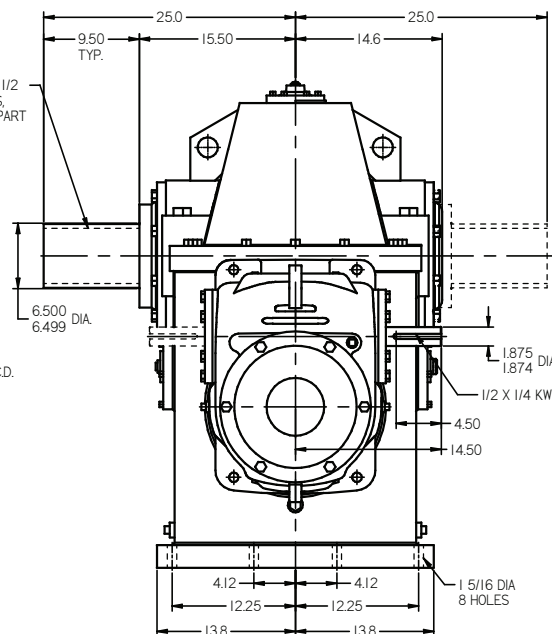
Shown
Model OV



PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

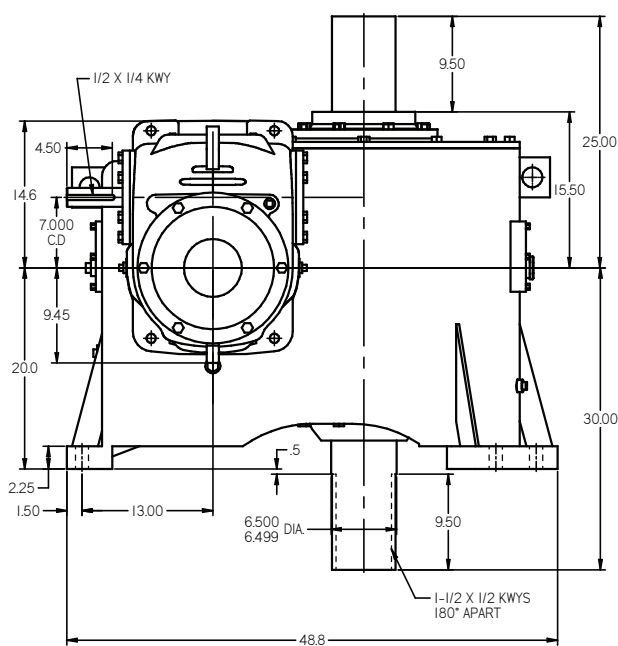
Alternate

UU & VU



Alternate

UV & VV approx. net wt. 4500 lbs.



Cone Drive Double Reduction Units - 7.000" C.D. PRI./15.000" C.D. SEC. Size 70-150

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	16.20	60.00	73.90	83.60	96.40
	Th.HP	8.50	20.40	25.00	28.09	31.00
	O.T.	557,000	388,000	325,000	282,000	218,000
100 (5x20)	Me.HP	12.50	60.00	73.90	83.60	96.40
	Th.HP	8.50	19.30	23.40	27.00	31.00
	O.T.	541,000	494,000	413,000	358,000	278,000
125 (5x25)	Me.HP	10.30	51.90	70.30	83.60	96.40
	Th.HP	8.50	19.00	23.40	23.00	29.00
	O.T.	522,000	510,000	477,000	440,000	344,000
150 (10x15)	Me.HP	8.89	41.10	51.20	58.70	68.40
	Th.HP	7.55	18.96	20.00	21.00	25.70
	O.T.	557,000	500,000	425,000	376,000	296,000
200 (10x20)	Me.HP	8.89	41.10	51.20	58.70	68.40
	Th.HP	6.89	18.96	18.50	19.40	23.00
	O.T.	541,000	541,000	540,000	477,000	376,000
225 (15x15)	Me.HP	6.34	29.30	36.50	41.90	49.20
	Th.HP	6.34	15.80	15.00	17.00	20.00
	O.T.	557,000	512,000	442,000	390,000	307,000
250 (10x25)	Me.HP	5.67	28.60	41.50	52.50	68.40
	Th.HP	5.67	15.90	16.50	16.40	21.00
	O.T.	522,000	522,000	522,000	511,000	456,000
300 (15x20)	Me.HP	4.95	24.60	35.30	41.90	49.20
	Th.HP	4.95	15.80	17.80	18.75	20.02
	O.T.	541,000	541,000	541,000	494,000	390,000
375 (15x25)	Me.HP	4.13	20.00	28.60	37.10	49.20
	Th.HP	4.13	15.80	15.92	15.75	16.87
	O.T.	522,000	522,000	522,000	522,000	466,000

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
1250 (50x25)	Me.HP	2.01	7.70	11.10	13.20	15.60
	Th.HP	2.01	7.70	7.43	8.77	9.45
	O.T.	522,000	522,000	522,000	486,000	386,000
1400 (20x70)	Me.HP	1.76	6.62	8.23	9.46	11.20
	Th.HP	1.76	6.08	6.75	7.30	7.70
	O.T.	541,000	489,000	435,000	388,000	306,000
1500 (50x30)	Me.HP	1.68	6.46	9.28	11.90	15.60
	Th.HP	1.68	6.46	8.25	8.77	9.45
	O.T.	501,000	501,000	501,000	501,000	442,000
1600 (40x40)	Me.HP	1.47	6.11	8.55	10.90	16.10
	Th.HP	1.47	6.11	8.00	9.50	10.00
	O.T.	455,000	455,000	455,000	455,000	455,000
1750 (25x70)	Me.HP	1.54	6.06	8.23	9.46	11.20
	Th.HP	1.54	6.06	6.50	7.30	7.70
	O.T.	522,000	522,000	508,000	454,000	361,000
1800 (60x30)	Me.HP	1.45	5.83	8.11	10.40	13.00
	Th.HP	1.45	5.83	7.30	7.50	8.00
	O.T.	501,000	501,000	501,000	501,000	421,000
2000 (50x40)	Me.HP	1.35	5.09	7.25	9.24	13.60
	Th.HP	1.35	5.09	6.65	8.56	8.50
	O.T.	455,000	455,000	455,000	455,000	455,000
2100 (30x70)	Me.HP	1.28	5.14	7.11	9.13	11.20
	Th.HP	1.28	5.14	6.50	6.75	7.70
	O.T.	501,000	501,000	501,000	501,000	412,000
2400 (60x40)	Me.HP	1.14	3.88	5.34	6.82	9.70
	Th.HP	1.16	4.61	6.36	7.00	7.70
	O.T.	455,000	455,000	455,000	455,000	455,000

CAUTION:

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

Hollow Gear Shafts

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. Steeple bearing arrangements follow in this section. All units can be motorized. Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive. Set screw end of hollow shaft is considered the

extension end.

Unless specified, standard reducers are supplied with right hand helix gear sets.

Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

For hand of assembly views follow in this section.

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

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

Important:

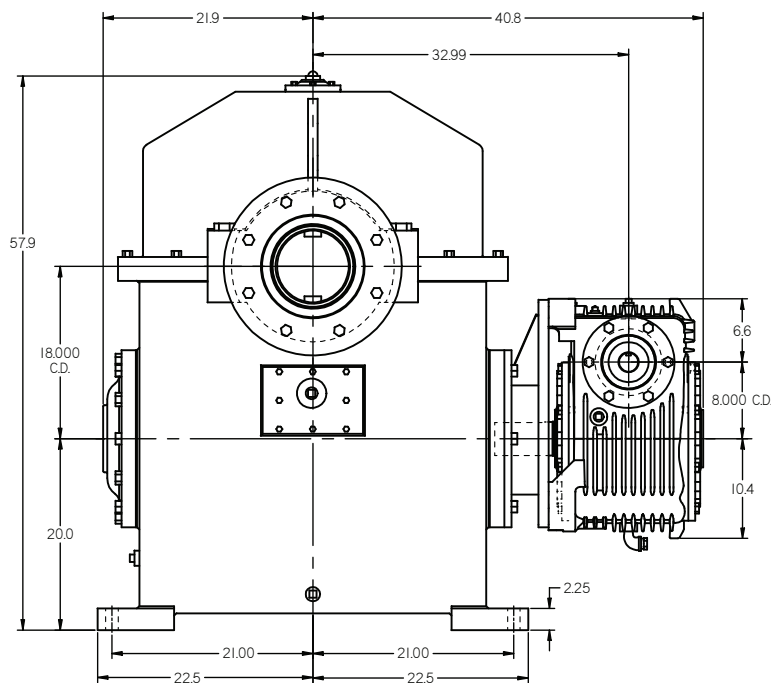
In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence must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

Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

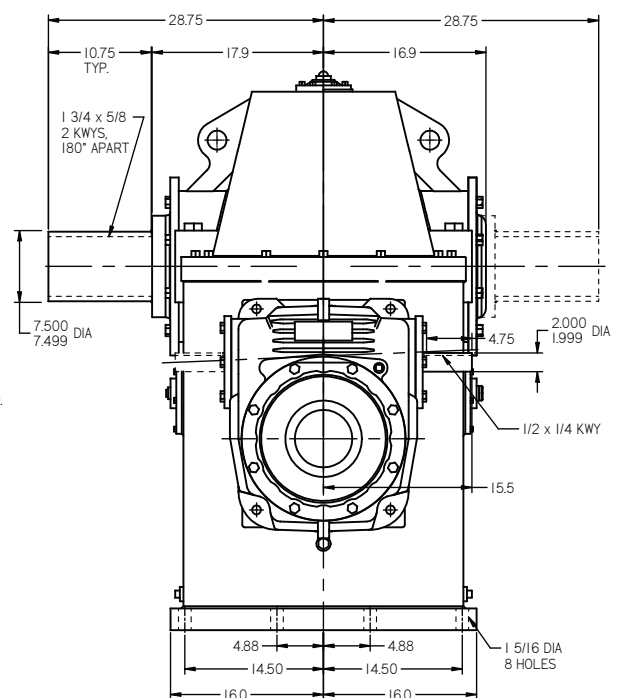
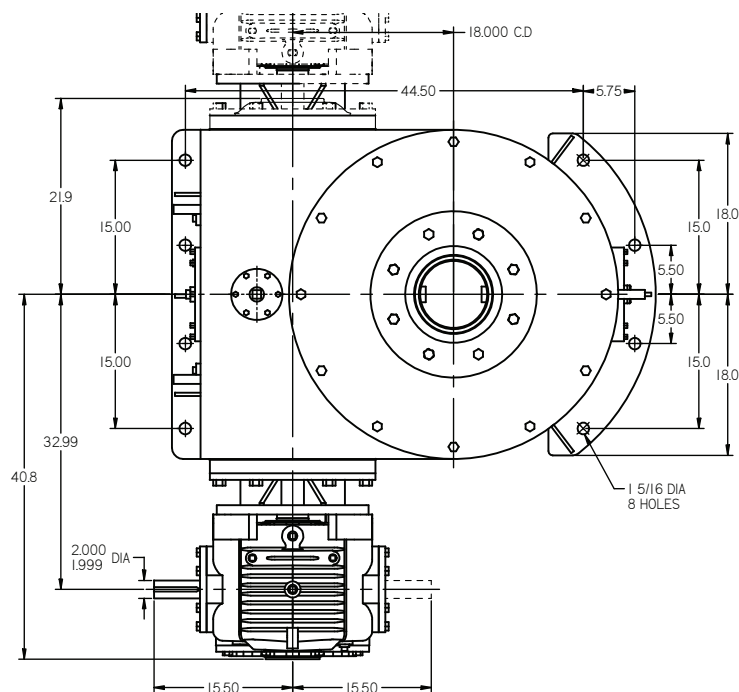
KEY: Me.HP = Mech. Input Power (HP)

Th.HP = Ther. Input Power - No Fan

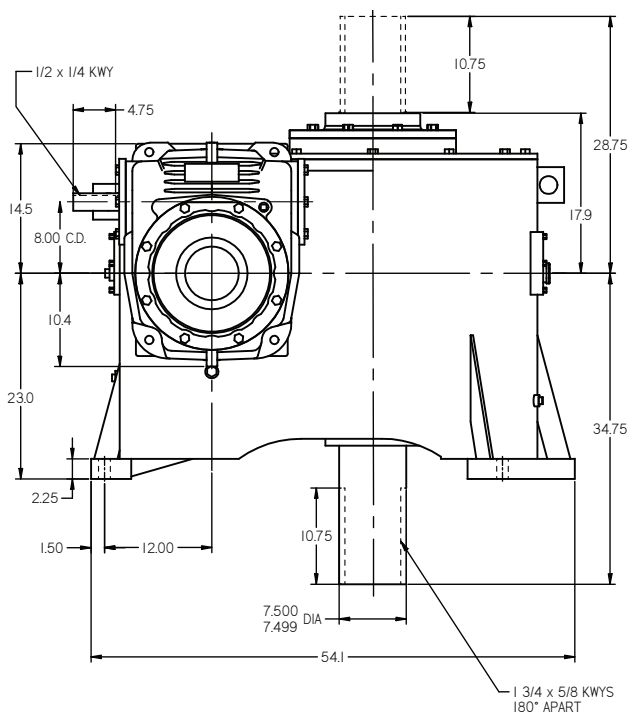
O.T. = Output Torque (In. Lb.)

Cone Drive Double Reduction Units - 8.000" C.D. PRI./18.000" C.D. SEC.**Size 80-180
Solid Shaft****Model OU Shown.**

PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

Alternate**UU & VU approx. net wt. 5750 lbs.****Shown
Model OV****Alternate****UV & VV approx. net wt. 5750 lbs.**

PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.



Cone Drive Double Reduction Units - 8.000" C.D. PRI./18.000" C.D. SEC. Size 80-180

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	25.90	85.30	104.00	116.00	134.00
	Th.HP	8.50	23.60	28.40	30.80	33.80
	O.T.	891,000	552,000	460,000	392,000	303,000
100 (5x20)	Me.HP	20.30	85.30	104.00	116.00	134.00
	Th.HP	8.50	23.60	28.40	30.80	33.80
	O.T.	880,000	702,000	584,000	497,000	388,000
125 (5x25)	Me.HP	16.70	84.20	104.00	116.00	134.00
	Th.HP	8.50	22.80	27.90	30.80	33.80
	O.T.	849,000	828,000	709,000	610,000	480,000
150 (10x15)	Me.HP	14.00	70.60	94.30	111.00	134.00
	Th.HP	8.50	17.56	22.82	27.37	33.80
	O.T.	815,000	792,000	724,000	658,000	537,000
200 (10x20)	Me.HP	11.20	57.30	74.40	85.10	98.70
	Th.HP	7.55	19.10	22.40	24.00	25.70
	O.T.	880,000	880,000	784,000	693,000	542,000
225 (15x15)	Me.HP	10.30	42.90	53.20	61.20	71.00
	Th.HP	6.60	15.80	17.80	18.90	20.20
	O.T.	904,000	749,000	645,000	569,000	443,000
250 (10x25)	Me.HP	9.22	46.50	67.40	85.10	98.70
	Th.HP	7.55	19.10	21.80	22.98	25.70
	O.T.	849,000	849,000	849,000	827,000	658,000
300 (15x20)	Me.HP	8.05	39.90	53.20	61.20	71.00
	Th.HP	6.60	15.80	17.80	18.90	20.20
	O.T.	880,000	880,000	817,000	721,000	563,000
375 (15x25)	Me.HP	6.71	32.60	46.60	60.40	71.00
	Th.HP	6.60	15.80	17.80	18.90	20.20
	O.T.	849,000	849,000	849,000	849,000	673,000

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
1250 (50x25)	Me.HP	3.27	12.50	16.80	19.30	22.50
	Th.HP	2.47	7.43	8.25	8.77	9.45
	O.T.	849,000	849,000	794,000	710,000	556,000
1400 (20x70)	Me.HP	2.63	9.69	12.00	13.80	16.10
	Th.HP	1.75	6.08	6.75	7.30	7.70
	O.T.	811,000	716,000	636,000	566,000	442,000
1500 (50x30)	Me.HP	2.73	10.50	15.10	19.30	22.50
	Th.HP	2.47	7.43	8.25	8.77	9.45
	O.T.	815,000	815,000	815,000	811,000	636,000
1600 (40x40)	Me.HP	2.38	9.95	13.90	17.80	26.20
	Th.HP	2.38	8.90	9.85	10.25	10.65
	O.T.	739,000	739,000	739,000	739,000	739,000
1750 (25x70)	Me.HP	2.50	9.69	12.00	13.80	16.10
	Th.HP	2.50	6.08	6.75	7.30	7.70
	O.T.	849,000	834,000	743,000	663,000	520,000
1800 (60x30)	Me.HP	2.36	9.47	13.20	16.10	18.80
	Th.HP	2.36	6.48	7.30	7.95	8.50
	O.T.	815,000	815,000	815,000	774,000	607,000
2000 (50x40)	Me.HP	2.19	8.29	11.80	15.00	22.20
	Th.HP	2.19	7.30	6.90	8.77	9.45
	O.T.	739,000	739,000	739,000	739,000	739,000
2400 (60x40)	Me.HP	1.89	7.50	10.30	13.20	18.80
	Th.HP	1.89	6.48	7.30	7.95	8.50
	O.T.	739,000	739,000	739,000	739,000	712,000

CAUTION:

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

Hollow Gear Shafts

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.

Steeple bearing arrangement follow in this section.

All units can be motorized.

Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets.

Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views follow in this section.

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

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

Important:

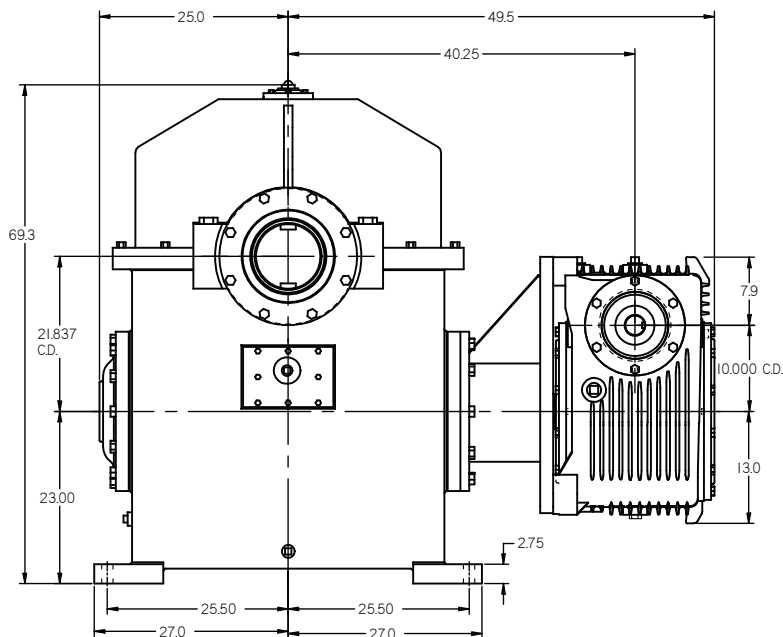
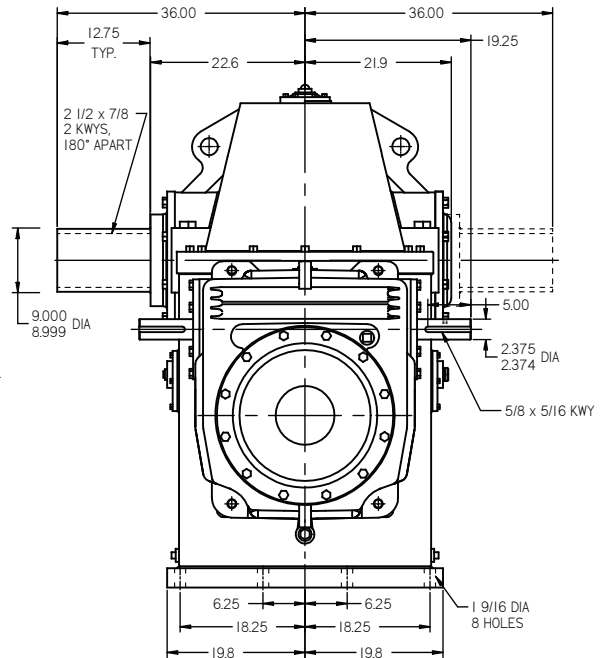
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Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

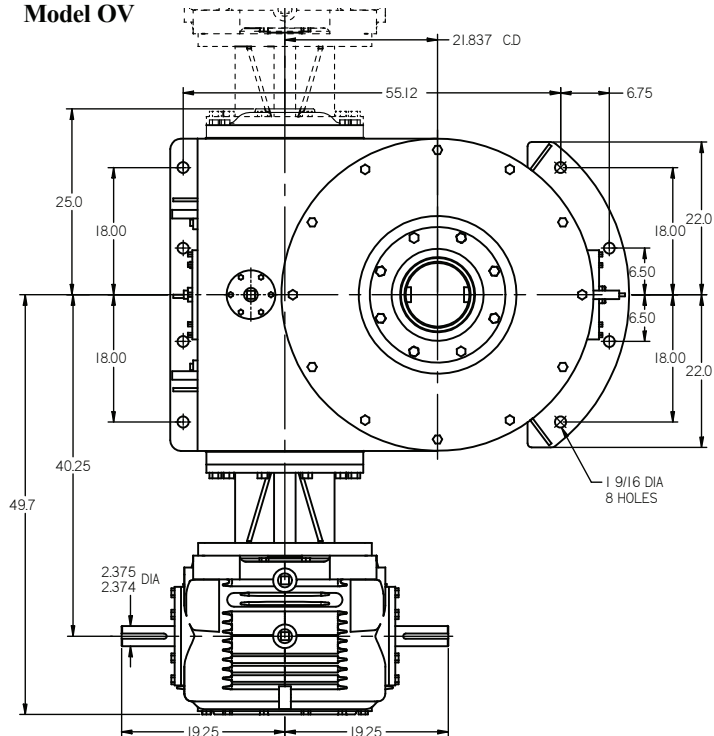
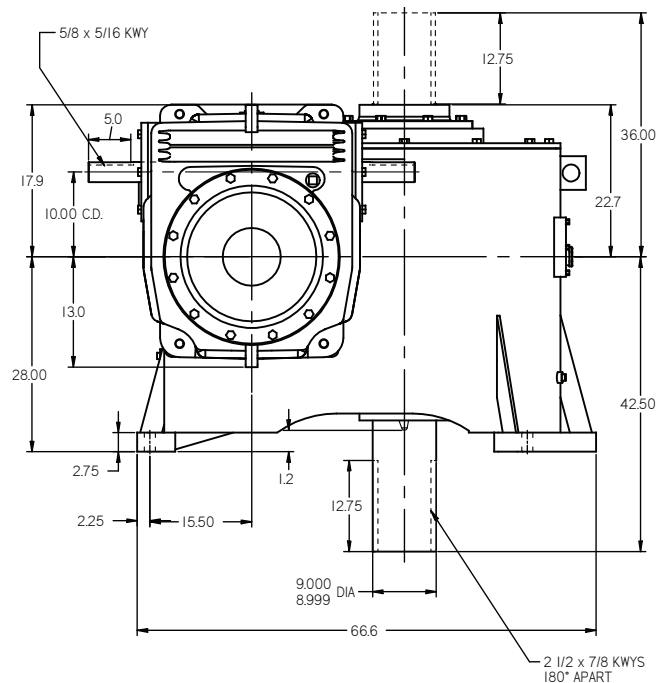
KEY: Me.HP = Mech. Input Power (HP)

Th.HP = Ther. Input Power - No Fan

O.T. = Output Torque (In. Lb.)

Cone Drive Double Reduction Units - 10.000" C.D. PRI./21.837" C.D. SEC.**Size 100-220****Solid Shaft****Model OU Shown.****Alternate
UU & VU**

PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

**Shown
Model OV****Alternate
UV & VV**

PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

Cone Drive Double Reduction Units - 10.000" C.D. PRI./21.837" C.D. SEC. Size 100-220

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
70 (5x14)	Me.HP	47.80	148.00	178.00	194.00	—
	Th.HP	13.30	36.70	44.00	47.80	—
	O.T.	1,580,000	923,000	752,000	629,000	—
100 (5x20)	Me.HP	34.20	148.00	178.00	194.00	—
	Th.HP	13.20	36.70	44.00	47.80	—
	O.T.	1,510,000	1,240,000	1,010,000	844,000	—
125 (5x25)	Me.HP	28.10	141.00	177.00	194.00	—
	Th.HP	13.20	36.70	44.00	47.80	—
	O.T.	1,460,000	1,420,000	1,210,000	1,030,000	—
140 (10x14)	Me.HP	26.30	105.00	129.00	144.00	166.00
	Th.HP	11.80	29.80	34.40	37.30	39.80
	O.T.	1,580,000	1,230,000	1,030,000	888,000	691,000
200 (10x20)	Me.HP	19.90	96.30	129.00	144.00	166.00
	Th.HP	11.80	29.80	34.40	37.30	39.80
	O.T.	1,510,000	1,510,000	1,390,000	1,200,000	931,000
250 (10x25)	Me.HP	15.50	78.20	113.00	143.00	166.00
	Th.HP	11.80	29.80	32.97	34.71	39.80
	O.T.	1,460,000	1,460,000	1,460,000	1,420,000	1,110,000
300 (15x20)	Me.HP	13.50	67.10	91.90	104.00	119.00
	Th.HP	10.25	24.60	27.80	29.40	31.40
	O.T.	1,510,000	1,510,000	1,440,000	1,250,000	966,000

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
2000 (50x40)	Me.HP	3.64	13.90	19.80	25.20	37.10
	Th.HP	3.64	11.55	12.80	13.60	14.10
	O.T.	1,270,000	1,270,000	1,270,000	1,270,000	1,270,000
2100 (70x30)	Me.HP	3.46	14.00	19.30	24.00	27.10
	Th.HP	1.94	8.58	10.50	11.30	11.95
	O.T.	1,400,000	1,400,000	1,400,000	1,300,000	1,030,000

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

Hollow Gear Shafts

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.

Steeple bearing arrangements follow in this section.

All units can be motorized.

Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views follow in this section.

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

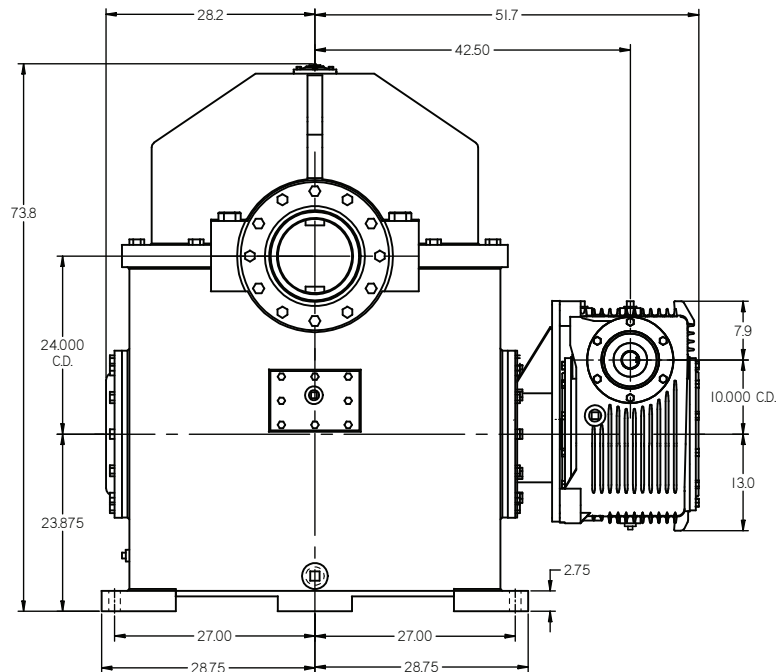
Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

Important:

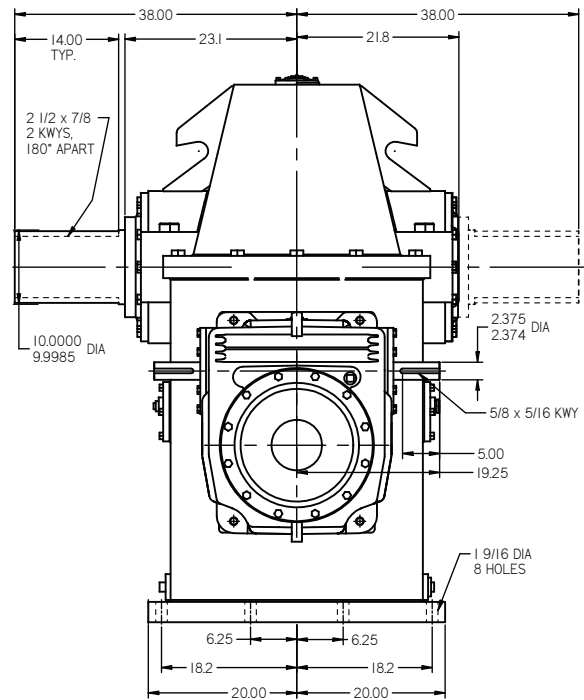
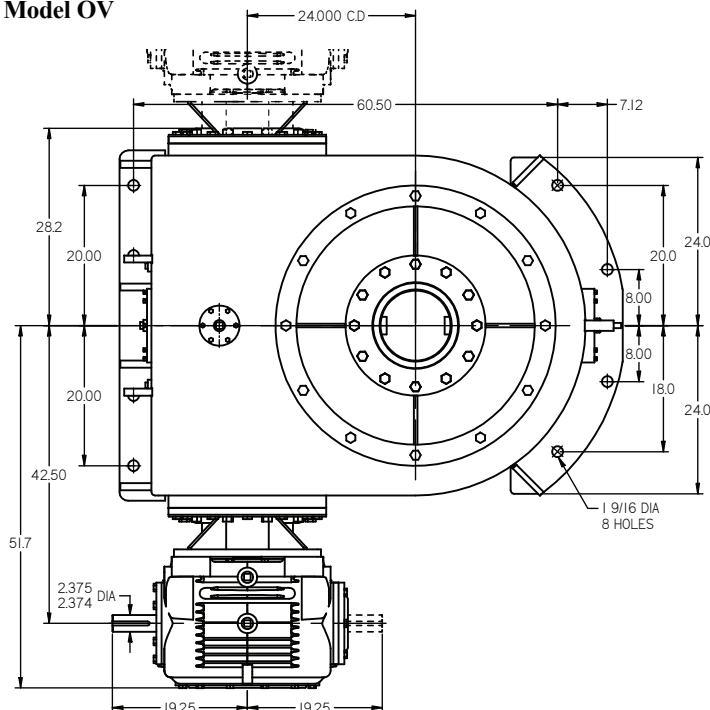
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Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

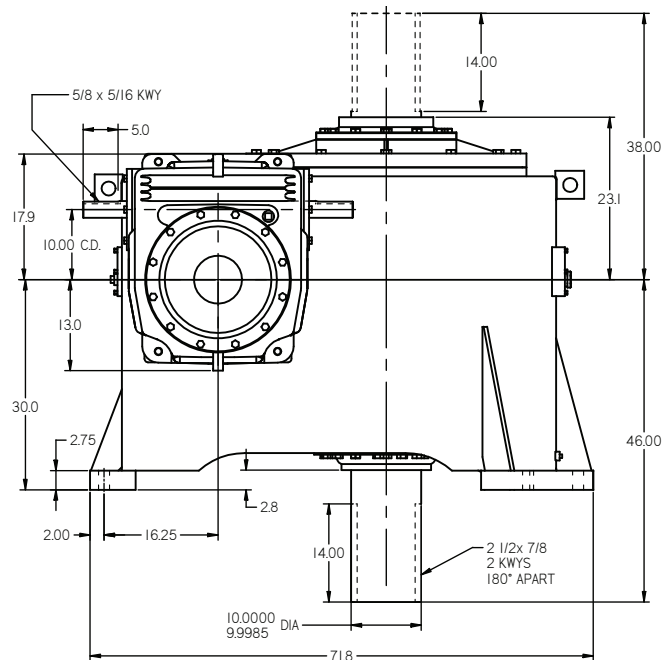
KEY: Me.HP = Mech. Input Power (HP)
Th.HP = Ther. Input Power - No Fan
O.T. = Output Torque (In. Lb.)

Cone Drive Double Reduction Units - 10.000" C.D. PRI./24.000" C.D. SEC.**Size 100-240
Solid Shaft****Model OU Shown.**

PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.

**Alternate
UU & VU****Shown
Model OV****Alternate
UV & VV approx. net wt. 5750 lbs.**

PRIMARY UNIT HAS CAST IRON HOUSING.
SECONDARY UNIT HAS WELDED STEEL HOUSING.
PRIMARY MAY BE MOUNTED ON EITHER SIDE OF VERTICAL SECONDARY UNIT.
INPUT AND OUTPUT SHAFT MAY EXTEND ON EITHER SIDE OR MAY BE DOUBLE EXTENDED.



Cone Drive Double Reduction Units - 10.000" C.D. PRI./24.000" C.D. SEC. Size 100-240

AGMA HORSEPOWER & OUTPUT TORQUE RATINGS FOR 1.0 SERVICE FACTOR

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
75 (5x15)	Me.HP	48.00	148.00	177.00	194.00	
	Th.HP	13.20	36.70	44.00	47.80	—
	O.T.	1,680,000	974,000	803,000	664,000	
100 (5x20)	Me.HP	44.00	148.00	177.00	194.00	
	Th.HP	13.20	36.70	44.00	47.80	—
	O.T.	1,900,000	1,240,000	1,020,000	844,000	
125 (5x25)	Me.HP	36.00	148.00	177.00	194.00	
	Th.HP	13.20	36.70	44.00	47.80	—
	O.T.	1,820,000	1,470,000	1,210,000	1,030,000	
150 (10x15)	Me.HP	31.00	105.00	129.00	145.00	166.00
	Th.HP	11.80	29.80	34.40	37.30	39.80
	O.T.	1,940,000	1,270,000	1,090,000	948,000	734,000
200 (10x20)	Me.HP	24.00	105.00	129.00	145.00	166.00
	Th.HP	11.80	29.80	34.40	37.30	39.80
	O.T.	1,900,000	1,590,000	1,390,000	1,200,000	933,000
250 (10x25)	Me.HP	20.00	101.00	129.00	145.00	166.00
	Th.HP	11.80	29.80	34.40	37.30	39.80
	O.T.	1,820,000	1,820,000	1,650,000	1,430,000	1,110,000
300 (15x20)	Me.HP	17.50	75.00	92.00	104.00	119.00
	Th.HP	10.25	24.60	27.80	29.40	31.40
	O.T.	1,900,000	1,640,000	1,400,000	1,250,000	958,000

Ratio to 1		Worm RPM				
		100	580	870	1150	1750
2100 (70x30)	Me.HP	3.90	16.90	21.00	24.00	27.00
	Th.HP	1.94	8.58	10.50	11.30	11.95
	O.T.	1,760,000	1,620,000	1,430,000	1,300,000	1,030,000

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

Hollow Gear Shafts

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.

Steeple bearing arrangements follow in this section.

All units can be motorized.

Model VU & VO with motor downward require special consideration for motor clearance. Contact Cone Drive.

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

Unless specified, standard reducers are supplied with right hand helix gear sets. Reducers are designed for shaft rotation in either direction.

For output shaft chain pull capacity, see single reduction rating chart for secondary unit size.

Divide input RPM by primary ratio to obtain secondary input RPM.

Primary unit may be mounted with worm over, worm under, or worm vertical to the right or left of gear.

Hand of assembly views follow in this section.

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

Reducer can be furnished with additional shaft extension at primary side cover and/or at end of secondary opposite primary.

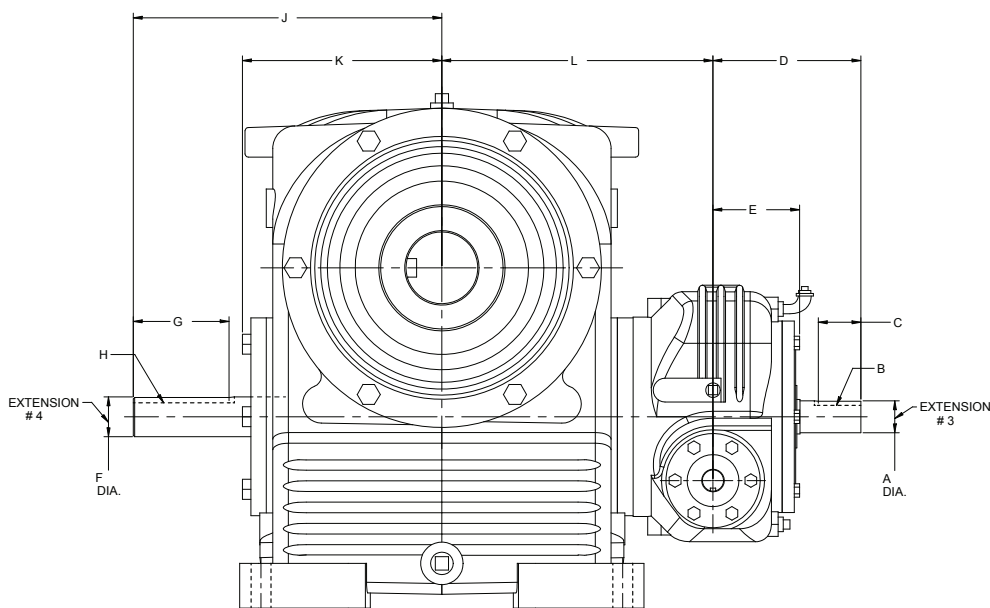
Ratings shown are based on using the recommended synthetic lubricant (see approved lubricants)

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

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.

Shaft Extensions for Cone Drive Double Reduction Units

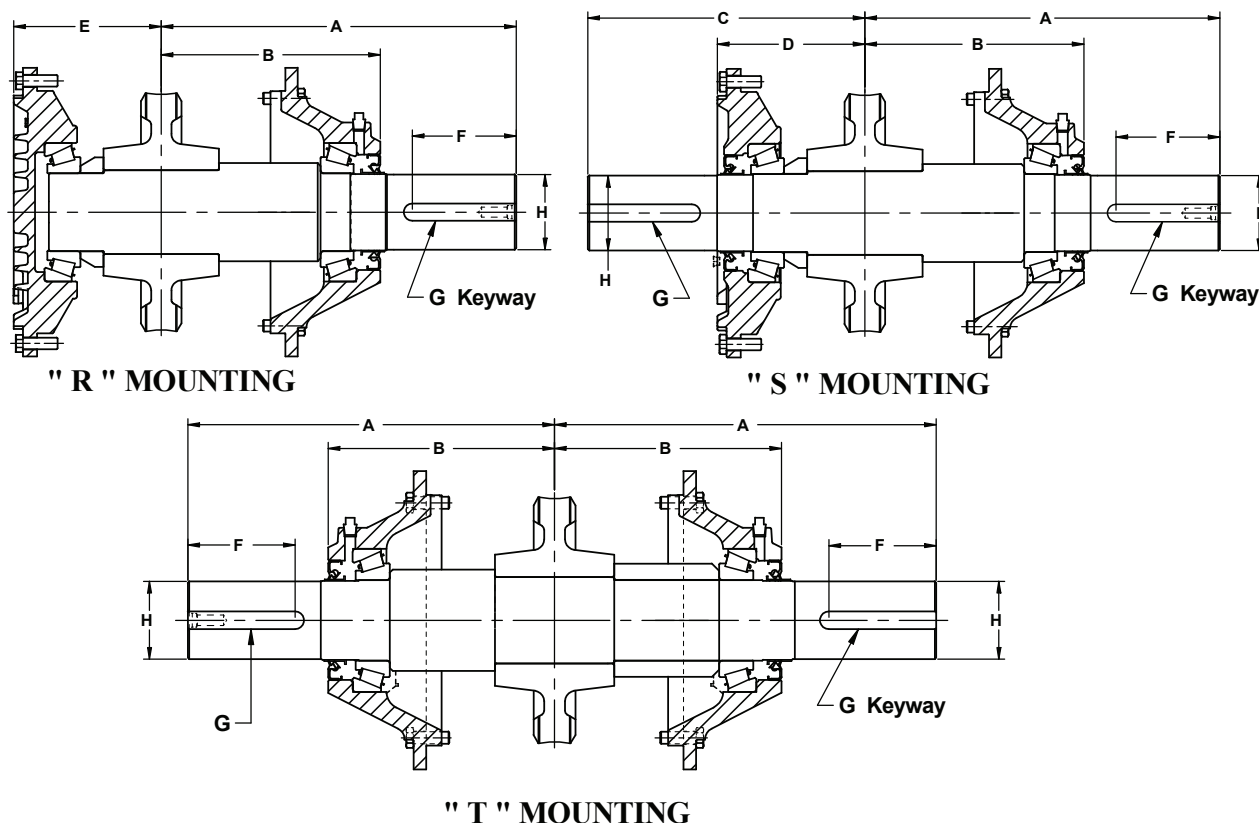


WORM SHAFTS WITH EXTENSIONS SHOWN ARE NON-STOCKED ITEMS MANUFACTURED TO THE INDIVIDUAL ORDER. WHEN ORDERING ADD SHAFT EXTENSION NUMBER IN FRONT OF MOUNTING NUMBER.

EXAMPLE: OU30-60-3A4 EXTENSION FROM PRIMARY
 OU30-60-4A4 EXTENSION FROM SECONDARY
 OU30-60-5A4 EXTENSION FROM BOTH PRIMARY AND SECONDARY

UNIT SIZE	PRIMARY SHAFT EXTENSION					SECOND SHAFT EXTENSION					
	A DIA	B KEYWAY	C	D	E	F DIA	G KEYWAY	H	J	K	L
20-30	.7495	3/16 x 3/32	1.25	4.37	2.8	.9995	1/4 x 1/8	1.75	6.68	4.6	6.88
20-35	.7495	3/16 x 3/32	1.25	4.37	2.8	1.1870	1/4 x 1/8	2.62	7.75	5.2	7.50
25-40	.8745	3/16 x 3/32	1.50	4.87	3.3	1.4995	3/8 x 3/16	3.00	9.31	6.1	8.81
25-50	.8745	3/16 x 3/32	1.50	4.87	3.3	1.4995	3/8 x 3/16	3.25	10.50	7.0	9.75
30-60	.9995	1/4 x 1/8	1.75	6.37	4.1	1.7495	3/8 x 3/16	4.00	11.75	7.6	10.47
30-70	.9995	1/4 x 1/8	1.75	6.37	4.1	1.8745	1/2 x 1/4	4.50	14.50	9.4	12.75
35-70	1.8745	1/2 x 1/4	2.68	7.87	4.2	1.8745	1/2 x 1/4	4.50	14.50	9.4	16.00
40-80	2.2495	1/2 x 1/4	3.31	9.25	4.9	1.9995	1/2 x 1/4	4.75	15.50	10.8	17.00
50-100	2.7495	5/8 x 5/16	3.62	10.31	5.7	2.3745	5/8 x 5/16	4.25	19.25	14.5	20.88
60-120	3.2495	3/4 x 3/8	4.50	12.00	6.4	2.9995	3/4 x 3/8	4.50	23.25	17.3	25.88
70-150	3.3745	7/8 x 7/16	4.87	13.00	7.4	3.4995	7/8 x 7/16	5.50	27.87	20.6	30.25
80-180	3.4995	7/8 x 7/16	4.87	14.00	7.8	3.9995	1" x 1/2	7.50	31.50	21.9	32.50
100-220	3.9995	1" x 1/2	5.12	15.72	9.4	4.4995	1" x 1/2	9.50	37.00	25.0	40.25
100-240	3.9995	1" x 1/2	5.12	15.72	9.4	4.9995	1-1/4 x 7/16	9.75	40.00	28.2	42.50

Cone Drive Steeple Bearings for Double Reduction Units



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

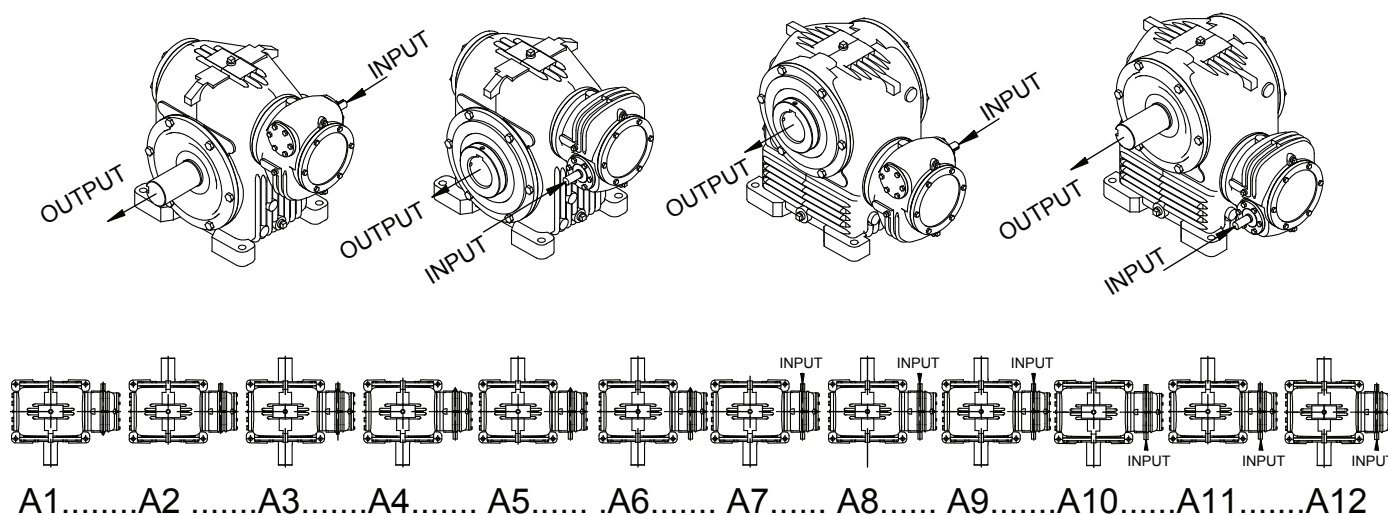
under units, specify steeple bearing on left (L) or right (R) of unit as viewed from the input end.

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

Assembly & Mounting Floor Mounted Position Numbers for Cone Drive Double Reduction Units

MODELS OO, OOS, UO, UOS, OU, OUS, UU, UUS

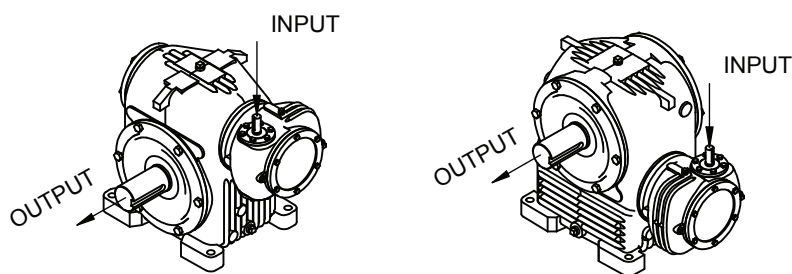
MODEL PREFIXES: F=FAN COOLED W=WATER COOLED M=MOTORIZED P=PRESSURE LUBE
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.



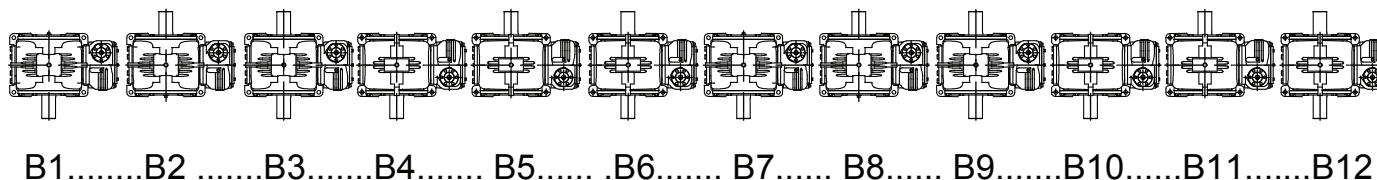
MODELS VO, VOS, VU*, VUS*

MODEL PREFIXES: F=FAN COOLED W=WATER COOLED M=MOTORIZED P=PRESSURE LUBE
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.

*NOTE: FOR MOTORIZING OF THESE UNITS. -2¹¹/₃₂" C.D. TO 3¹¹/₃₂" C.D. - SPECIAL PARTS MAY BE REQUIRED PLEASE CONTACT CONE DRIVE.



DIAGRAMS B1 THRU B6 HAVE SINGLE EXTENDED INPUT SHAFTS, THE INPUT END EXTENDS UP.
DIAGRAMS B7 THRU B12 HAVE DOUBLE EXTENDED INPUT SHAFTS. THE INPUT END EXTENDS UP.
FOR INPUT END EXTENDING DOWN SPECIFY SAME WHEN ORDERING AND ADD LETTER "D" AFTER PRIMARY SIZE, EXAMPLE: V040D-80B1

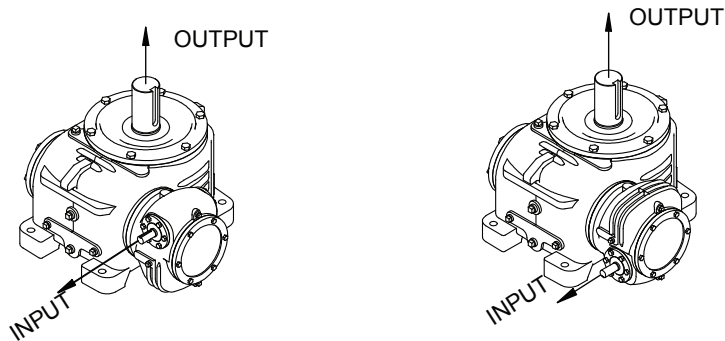


Assembly & Mounting Floor Mounted Position Numbers for Cone Drive Double Reduction Units

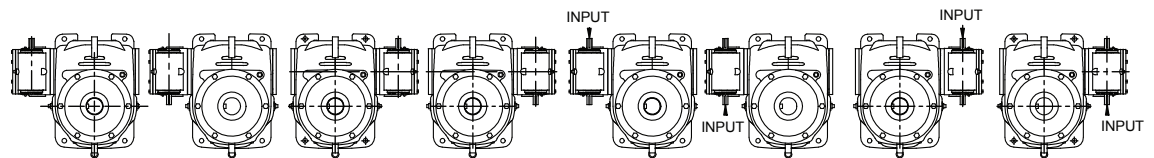
MODELS OV, OVS, UV, UVS

MODEL PREFIXES: F=FAN COOLED W=WATER COOLED M=MOTORIZED P=PRESSURE LUBE

ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.



DIAGRAMS ABOVE HEAVY LINE
MAY REQUIRE SPECIAL PARTS FOR
MOTORIZING. PLEASE CONTACT
CONE DRIVE.

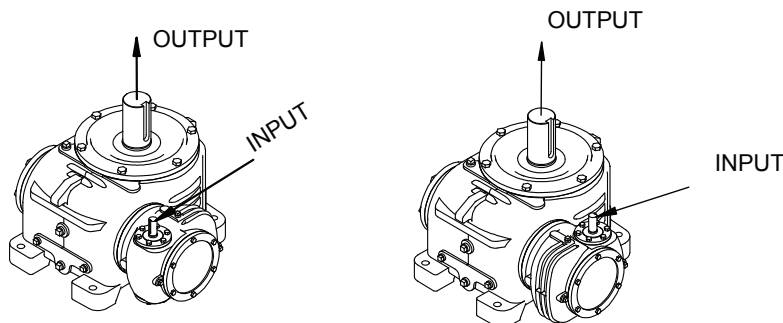


OPPOSITE FEET.....	C1A.....	C2A.....	C3A.....	C4A.....	C5A.....	C6A.....	C7A.....	C8A
THROUGH FEET.....	C1B.....	C2B.....	C3B.....	C4B.....	C5B.....	C6B.....	C7B.....	C8B
DOUBLE EXTENDED.....	C1C.....	C2C.....	C3C.....	C4C.....	C5C.....	C6C.....	C7C.....	C8C

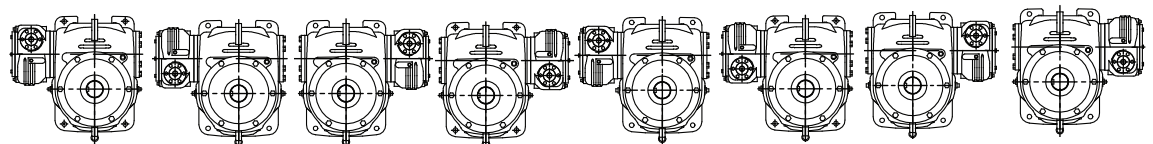
MODELS VV, VVS

MODEL PREFIXES: F=FAN COOLED W=WATER COOLED M=MOTORIZED P=PRESSURE LUBE

ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE.



DIAGRAMS D1 THRU D4 HAVE SINGLE EXTENDED
INPUT SHAFTS, THE INPUT END EXTENDS UP.
DIAGRAMS D5 THRU D8 HAVE DOUBLE
EXTENDED INPUT SHAFTS. THE INPUT END
EXTENDS UP.
FOR INPUT END EXTENDING DOWN SPECIFY
SAME WHEN ORDERING AND ADD LETTER "D"
AFTER PRIMARY SIZE, EXAMPLE: VV40D-80 DIA.



OPPOSITE FEET.....	D1A.....	D2A.....	D3A.....	D4A.....	D5A.....	D6A.....	D7A.....	D8A
THROUGH FEET.....	D1B.....	D2B.....	D3B.....	D4B.....	D5B.....	D6B.....	D7B.....	D8B
DOUBLE EXTENDED.....	D1C.....	D2C.....	D3C.....	D4C.....	D5C.....	D6C.....	D7C.....	D8C

Assembly & Mounting Position Numbers for Cone Drive Double Reduction Units

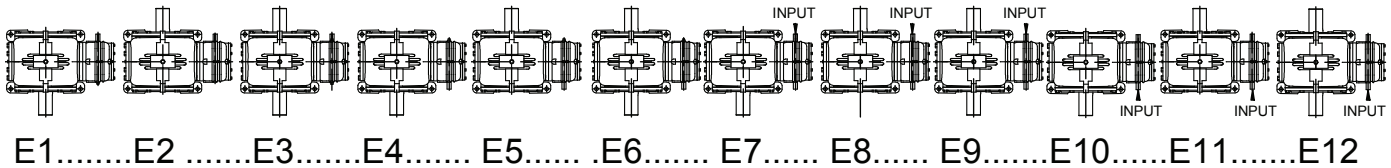
MODELS 00, 00S, OU, OUS, UO, UOS, UU, UUS, VO, VOS, VU, VUS

NOTE DISTINCTION BETWEEN VERTICAL WORM PRIMARIES AND OTHERS.

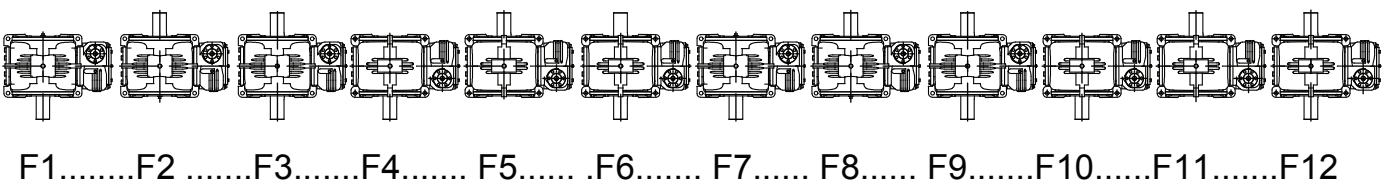
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAIR SIDE. DIAGRAMS 7 THRU 12 DOUBLE EXTENDED INPUT.

Ceiling Mounted - Output Shaft Horizontal

MODELS 00, 00S, OU, OUS, UO, UOS, UU, UUS

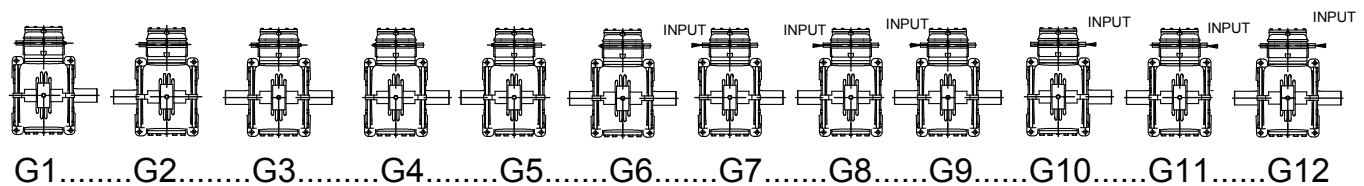


MODELS VO, VOS, VU, VUS

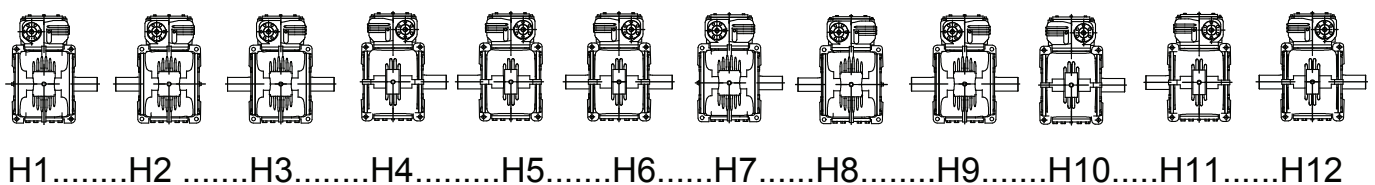


Wall Mounted - Primary Over Secondary - All Shafts Horizontal

MODELS 00, 00S, OU, OUS, UO, UOS, UU, UUS



MODELS VO, VOS, VU, VUS



Assembly & Mounting Position Numbers for Cone Drive Double Reduction Units

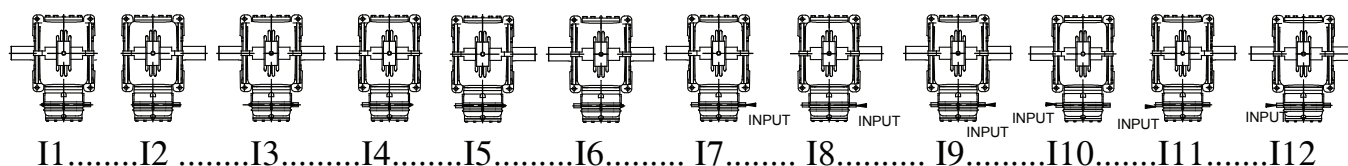
MODELS OO, OOS, OU, OUS, UO, UOS, UU, UUS, VO, VOS, VU, US

NOTE DISTINCTION BETWEEN VERTICAL WORM PRIMARIES AND OTHERS.

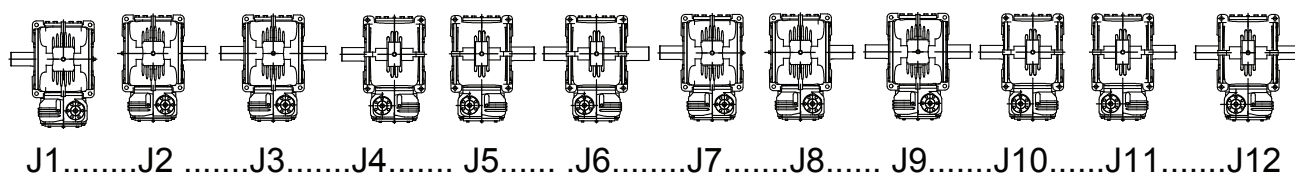
ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAIR SIDE. DIAGRAMS 7 THRU 12 DOUBLE EXTENDED INPUT.

Wall Mounted - Primary Under Secondary - All Shafts Horizontal

MODELS OO, OOS, OU, OUS, UO, UOS, UU, UUS

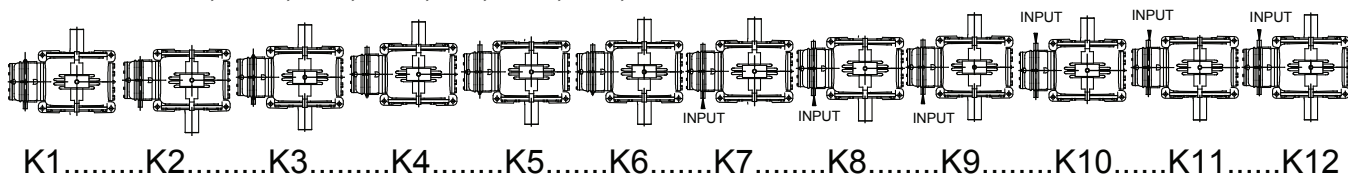


MODELS VO, VOS, VU, VUS

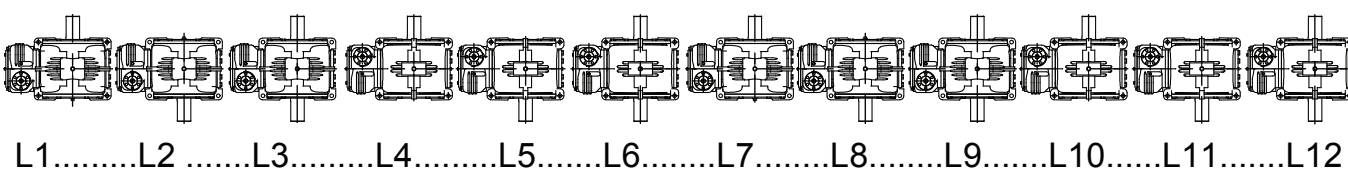


Wall Mounted - Primary to Left of Secondary - Output Shaft Vertical

MODELS OO, OOS, OU, OUS, UO, UOS, UU, UUS

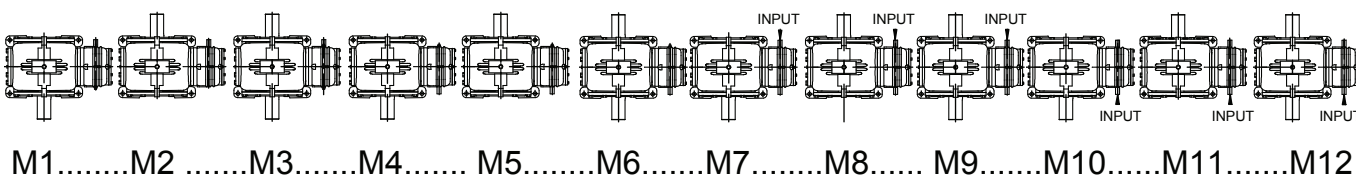


MODELS VO, VOS, VU, VUS

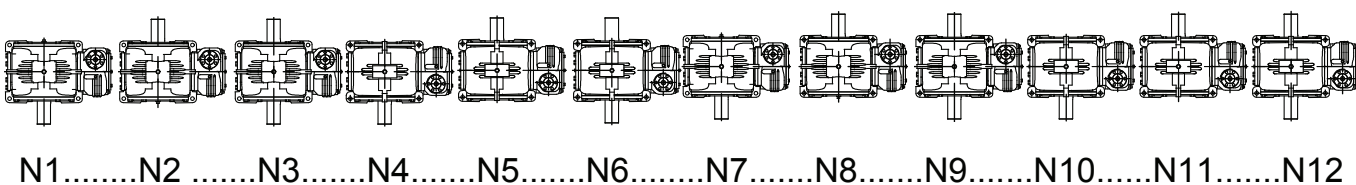


Wall Mounted - Primary to Right of Secondary - Output Shaft Vertical

MODELS OO, OOS, OU, OUS, UO, UOS, UU, UUS



MODELS VO, VOS, VU, VUS



Assembly and Mounting Position Numbers for Cone Drive Double Reduction Units

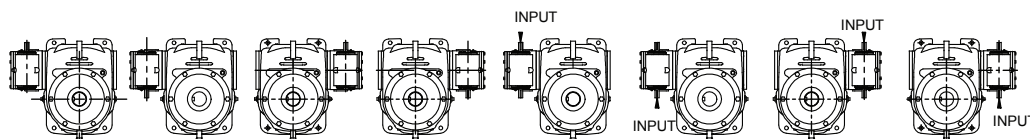
Models OV, OVS, UV, UVS, VV, VVS

ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE. DIAGRAM 5 THRU 8 DOUBLE EXTENDED INPUT.

DIAGRAMS ABOVE HEAVY LINE MAY REQUIRE SPECIAL PARTS
FOR MOTORIZING, PLEASE CONTACT CONE DRIVE.

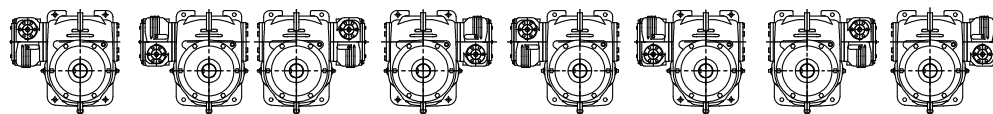
Ceiling Mounted Output Shaft Vertical

OV, OVS,
UV, UVS



OPPOSITE FEET.....	O1A.....	O2A.....	O3A.....	O4A.....	O5A.....	O6A.....	O7A.....	O8A
THROUGH FEET.....	O1B.....	O2B.....	O3B.....	O4B.....	O5B.....	O6B.....	O7B.....	O8B
DOUBLE EXTENDED.....	O1C.....	<u>O2C.....</u>	O3C.....	<u>O4C.....</u>	O5C.....	<u>O6C.....</u>	O7C.....	<u>O8C</u>

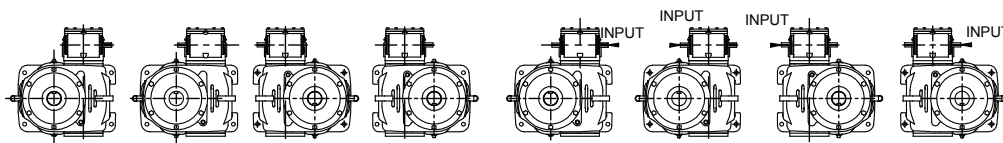
VV, VVS



OPPOSITE FEET.....	P1A.....	P2A.....	P3A.....	P4A.....	P5A.....	P6A.....	P7A.....	P8A
THROUGH FEET.....	P1B.....	P2B.....	P3B.....	P4B.....	P5B.....	P6B.....	P7B.....	P8B
DOUBLE EXTENDED.....	P1C.....	P2C.....	P3C.....	P4C.....	P5C.....	P6C.....	P7C.....	P8C

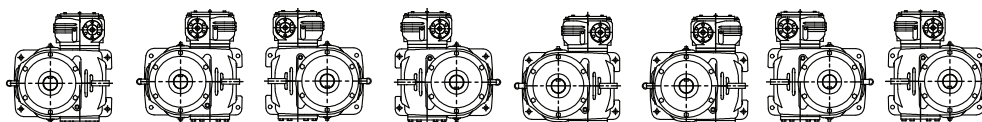
Wall Mounted - Primary Over Secondary All Shafts Horizontal

OV, OVS,
UV, UVS



OPPOSITE FEET.....	Q1A.....	Q2A.....	Q3A.....	Q4A.....	Q5A.....	Q6A.....	Q7A.....	Q8A
THROUGH FEET.....	Q1B.....	Q2B.....	Q3B.....	Q4B.....	Q5B.....	Q6B.....	Q7B.....	Q8B
DOUBLE EXTENDED.....	Q1C.....	<u>Q2C.....</u>	Q3C.....	<u>Q4C.....</u>	Q5C.....	<u>Q6C.....</u>	Q7C.....	<u>Q8C</u>

VV, VVS



OPPOSITE FEET.....	R1A.....	R2A.....	R3A.....	R4A.....	R5A.....	R6A.....	R7A.....	R8A
THROUGH FEET.....	R1B.....	R2B.....	R3B.....	R4B.....	R5B.....	R6B.....	R7B.....	R8B
DOUBLE EXTENDED.....	R1C.....	R2C.....	R3C.....	R4C.....	R5C.....	R6C.....	R7C.....	R8C

Assembly and Mounting Position Numbers for Cone Drive Double Reduction Units

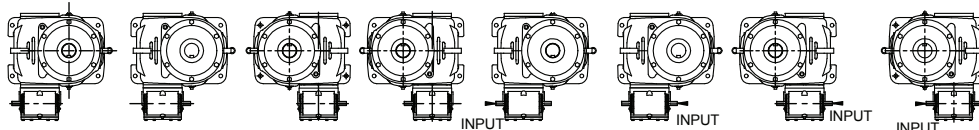
Models OV, VV, VVS, OVS, UV, UVS

ALL DIAGRAMS SHOW REDUCER WITH FEET ON FAR SIDE. DIAGRAM 5 THRU 8 DOUBLE EXTENDED INPUT.

Wall Mounted - Primary Under Secondary All Shafts Horizontal

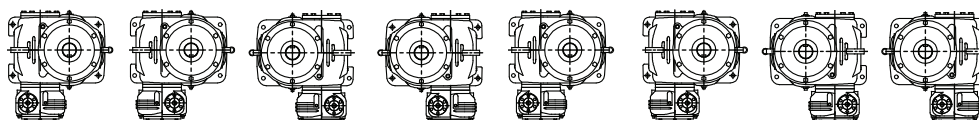
DIAGRAMS ABOVE HEAVY LINE MAY REQUIRE SPECIAL PARTS
FOR MOTORIZING, PLEASE CONTACT CONE DRIVE.

OV, OVS,
UV, UVS



OPPOSITE FEET.....	S1A.....	S2A.....	S3A.....	S4A.....	S5A.....	S6A.....	S7A.....	S8A.....
THROUGH FEET.....	S1B.....	S2B.....	S3B.....	S4B.....	S5B.....	S6B.....	S7B.....	S8B.....
DOUBLE EXTENDED.....	S1C.....	<u>S2C.....</u>	S3C.....	<u>S4C.....</u>	S5C.....	<u>S6C.....</u>	S7C.....	<u>S8C.....</u>

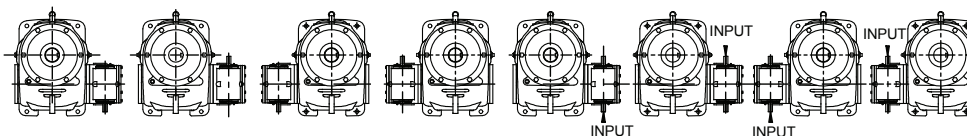
VV, VVS



OPPOSITE FEET.....	T1A.....	T2A.....	T3A.....	T4A.....	T5A.....	T6A.....	T7A.....	T8A.....
THROUGH FEET.....	T1B.....	T2B.....	T3B.....	T4B.....	T5B.....	T6B.....	T7B.....	T8B.....
DOUBLE EXTENDED.....	T1C.....	T2C.....	T3C.....	T4C.....	T5C.....	T6C.....	T7C.....	T8C.....

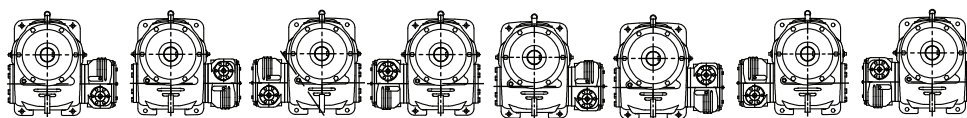
Wall Mounted - Secondary Worm Under Output Shaft Horizontal

OV, OVS,
UV, UVS



OPPOSITE FEET.....	U1A.....	U2A.....	U3A.....	U4A.....	U5A.....	U6A.....	U7A.....	U8A.....
THROUGH FEET.....	U1B.....	U2B.....	U3B.....	U4B.....	U5B.....	U6B.....	U7B.....	U8B.....
DOUBLE EXTENDED.....	U1C.....	<u>U2C.....</u>	U3C.....	<u>U4C.....</u>	U5C.....	<u>U6C.....</u>	U7C.....	<u>U8C.....</u>

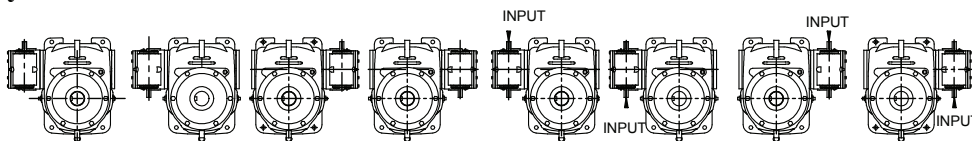
VV, VVS



OPPOSITE FEET.....	V1A.....	V2A.....	V3A.....	V4A.....	V5A.....	V6A.....	V7A.....	V8A.....
THROUGH FEET.....	V1B.....	V2B.....	V3B.....	V4B.....	V5B.....	V6B.....	V7B.....	V8B.....
DOUBLE EXTENDED.....	V1C.....	V2C.....	V3C.....	V4C.....	V5C.....	V6C.....	V7C.....	V8C.....

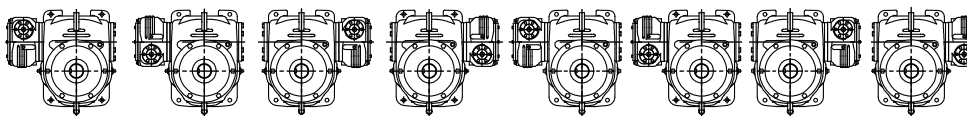
Wall Mounted - Secondary Worm Over Output Shaft Horizontal

OV, OVS,
UV, UVS



OPPOSITE FEET.....	W1A.....	W2A.....	W3A.....	W4A.....	W5A.....	W6A.....	W7A.....	W8A.....
THROUGH FEET.....	W1B.....	W2B.....	W3B.....	W4B.....	W5B.....	W6B.....	W7B.....	W8B.....
DOUBLE EXTENDED.....	W1C.....	<u>W2C.....</u>	W3C.....	<u>W4C.....</u>	W5C.....	<u>W6C.....</u>	W7C.....	<u>W8C.....</u>

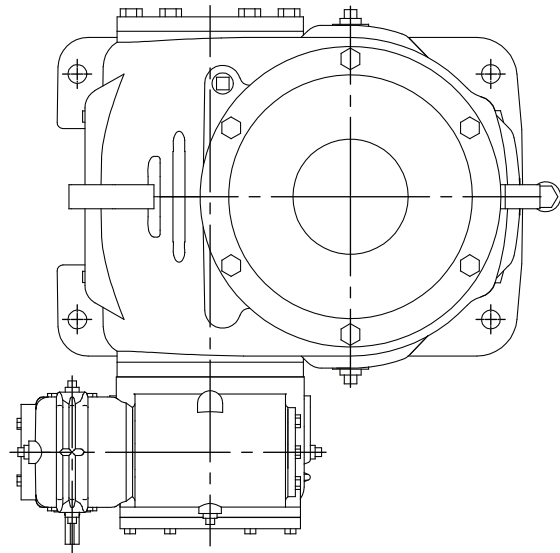
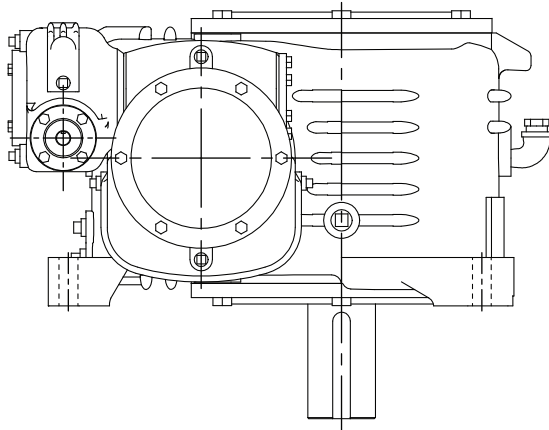
VV, VVS



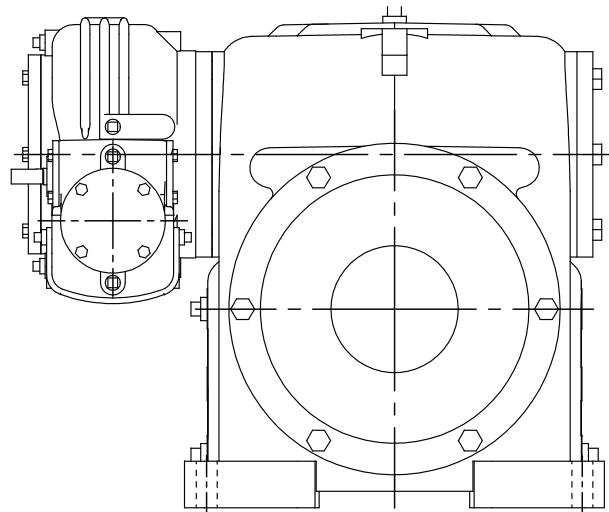
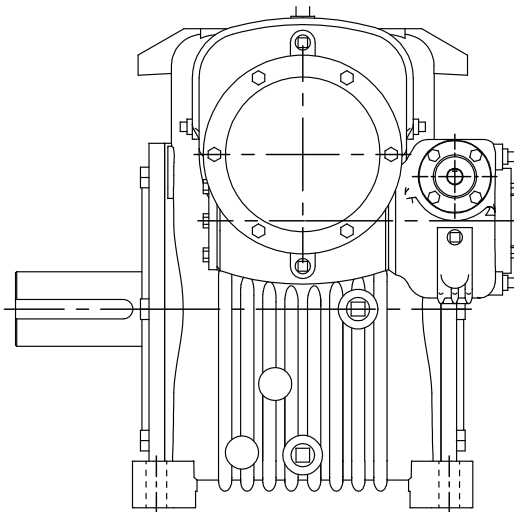
OPPOSITE FEET.....	X1A.....	X2A.....	X3A.....	X4A.....	X5A.....	X6A.....	X7A.....	X8A.....
THROUGH FEET.....	X1B.....	X2B.....	X3B.....	X4B.....	X5B.....	X6B.....	X7B.....	X8B.....
DOUBLE EXTENDED.....	X1C.....	X2C.....	X3C.....	X4C.....	X5C.....	X6C.....	X7C.....	X8C.....

Cone Drive Triple Reduction Typical Configurations

Model UOV Primary Worm Under Gear/Secondary Worm Over Gear/Tertiary Vertical Shaft



Model OUO Primary Worm Over Gear/Secondary Worm Under Gear/Tertiary Worm Over Gear



Cone Drive triple-reduction worm gear speed reducers consist of three single-reduction speed reducers combined into one assembly. Each worm gear set is enclosed in a heavily-ribbed heat dissipating house of our own special design. Heavy-duty tapered roller bearings provide anti-friction support of the worm and gear shafts. The unique advantages of the Cone Drive double enveloping worm gear set design contribute to the compact size, strength, and smooth operation of the assembly.

Standardization of parts and maximum use of interchangeable parts reduces cost and speeds delivery. We assemble our speed reducers to order from a stock of

standard shelf-hardware parts.

A wide range of center-distance sizes and ratios, plus several standard options, as well as hollow and solid output shafts, enable us to configure a triple-reduction speed reducer to your specific requirements.

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

Many more sizes and configurations are available. Contact the Cone Drive sales office or your local representative for a configuration to suit your exact requirements.

Cone Drive Triple Reduction Units

AGMA torque ratings for 1.0 service factor at 1750 RPM input speed

SIZE 20 PRIMARY	SIZE 30 SECONDARY	SIZE 60 TERTIARY	
RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)
5,000:1	10 x 25 x 20	0.45	37,500
6,000:1	15 x 20 x 20	0.38	37,500
7,500:1	15 x 25 x 20	0.33	37,500
10,000:1	20 x 20 x 25	0.26	36,100
12,500:1	25 x 25 x 20	0.22	37,500
17,500:1	5 x 50 x 70	0.18	27,000
24,000:1	20 x 20 x 60	0.13	27,500
36,000:1	30 x 60 x 20	0.12	37,500
72,000:1	30 x 60 x 40	0.07	31,200
125,000:1	50 x 50 x 50	0.06	27,900
180,000:1	50 x 60 x 60	0.05	27,500

SIZE 20 PRIMARY	SIZE 30 SECONDARY	SIZE 70 TERTIARY	
RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)
5,000:1	10 x 25 x 20	0.69	57,500
6,000:1	15 x 20 x 20	0.61	59,200
7,500:1	10 x 25 x 30	0.50	54,700
10,000:1	20 x 20 x 25	0.41	57,000
12,500:1	25 x 25 x 20	0.32	55,400
17,500:1	5 x 50 x 70	0.29	42,700
24,000:1	20 x 20 x 60	0.21	43,400
36,000:1	10 x 60 x 60	0.18	43,400
72,000:1	30 x 60 x 40	0.11	49,400
125,000:1	50 x 50 x 50	0.09	44,100
180,000:1	50 x 60 x 60	0.07	43,400

SIZE 20 PRIMARY	SIZE 35 SECONDARY	SIZE 70 TERTIARY	
RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)
5,000:1	10 x 25 x 20	0.71	59,200
6,000:1	15 x 20 x 20	0.61	59,200
7,500:1	15 x 25 x 20	0.52	59,200
10,000:1	40 x 25 x 10	0.43	59,600
12,500:1	25 x 25 x 20	0.35	59,200
17,500:1	5 x 50 x 70	0.29	42,700
24,000:1	40 x 60 x 10	0.19	43,800
36,000:1	40 x 60 x 15	0.19	59,000
72,000:1	30 x 60 x 40	0.11	49,400
125,000:1	50 x 50 x 50	0.09	44,100
180,000:1	50 x 60 x 60	0.07	43,400

SIZE 25 PRIMARY	SIZE 40 SECONDARY	SIZE 80 TERTIARY	
RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)
5,000:1	10 x 25 x 20	1.02	88,500
6,000:1	15 x 20 x 20	0.87	88,500
7,500:1	15 x 25 x 20	0.74	88,500
10,000:1	40 x 25 x 10	0.61	89,600
12,500:1	25 x 25 x 20	0.50	88,500
17,500:1	5 x 50 x 70	0.41	63,800
24,000:1	40 x 60 x 10	0.27	66,800
36,000:1	40 x 60 x 15	0.27	90,000
72,000:1	30 x 60 x 40	0.16	73,800
125,000:1	50 x 50 x 50	0.12	65,900
180,000:1	50 x 60 x 60	0.10	64,900

SIZE 25 PRIMARY	SIZE 50 SECONDARY	SIZE 100 TERTIARY	
RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)
5,000:1	20 x 25 x 10	1.97	174,000
6,000:1	15 x 20 x 20	1.63	170,000
7,500:1	15 x 25 x 20	1.39	170,000
10,000:1	40 x 25 x 10	1.16	174,000
12,500:1	50 x 25 x 10	0.98	174,000
17,500:1	25 x 70 x 10	0.63	134,000
24,000:1	40 x 60 x 10	0.53	135,000
36,000:1	40 x 60 x 15	0.51	175,000
72,000:1	30 x 60 x 40	0.30	143,000
125,000:1	50 x 50 x 50	0.22	128,000
180,000:1	50 x 60 x 60	0.19	126,000

SIZE 30 PRIMARY	SIZE 60 SECONDARY	SIZE 120 TERTIARY	
RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)
5,000:1	10 x 25 x 20	3.25	289,000
6,000:1	15 x 20 x 20	2.77	289,000
7,500:1	15 x 25 x 20	2.35	289,000
10,000:1	20 x 20 x 25	1.88	279,000
12,500:1	25 x 25 x 20	1.57	289,000
17,500:1	5 x 50 x 70	1.28	211,000
24,000:1	20 x 20 x 60	0.95	214,000
36,000:1	40 x 60 x 15	0.82	280,000
72,000:1	30 x 60 x 40	0.50	243,000
125,000:1	50 x 50 x 50	0.38	217,000
180,000:1	50 x 60 x 60	0.32	214,000

For additional size see top of following page. Additional ratios from 125:1 to 216,000:1 are available. Ratings for other ratios and input speeds may be obtained by contacting the Cone Drive Sales office or your local representative for additional 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.

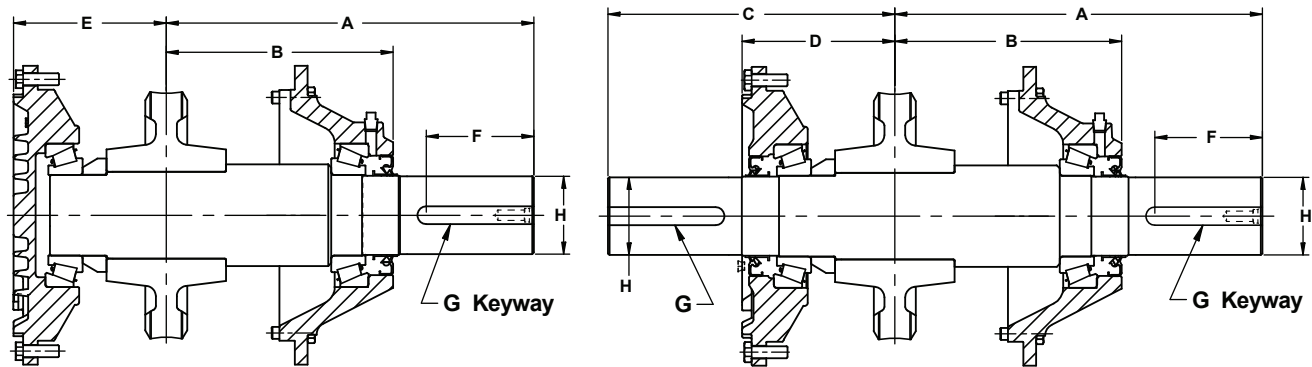
Cone Drive Triple Reduction Units

AGMA torque ratings for 1.0 service factor at 1750 RPM input speed.

SIZE 30 PRIMARY	SIZE 70 SECONDARY	SIZE 150 TERTIARY		SIZE 30 PRIMARY	SIZE 70 SECONDARY	SIZE 150 TERTIARY	
RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)	RATIO	RATIO COMBINATION	H.P. INPUT	OUTPUT TORQUE (LB. IN.)
5,000:1	10 x 25 x 20	6.08	541,000	5,000:1	10 x 25 x 20	9.57	880,000
6,000:1	15 x 20 x 20	5.18	541,000	6,000:1	15 x 20 x 20	8.14	880,000
7,500:1	15 x 25 x 20	4.41	541,000	7,500:1	15 x 25 x 20	6.93	880,000
10,000:1	20 x 20 x 25	3.51	522,000	10,000:1	20 x 20 x 25	5.52	849,000
12,500:1	25 x 25 x 20	2.95	541,000	12,500:1	25 x 25 x 20	4.63	880,000
17,500:1	25 x 70 x 10	1.53	325,000	17,500:1	25 x 70 x 10	2.20	485,000
24,000:1	20 x 20 x 60	1.77	401,000	24,000:1	20 x 20 x 60	2.79	653,000
36,000:1	30 x 60 x 20	1.59	538,000	36,000:1	30 x 60 x 20	2.28	803,000
72,000:1	30 x 60 x 40	0.95	455,000	72,000:1	30 x 60 x 40	1.48	739,000
125,000:1	50 x 50 x 50	0.72	408,000	125,000:1	50 x 50 x 50	1.12	663,000
180,000:1	50 x 60 x 60	0.60	401,000	180,000:1	50 x 60 x 60	0.94	653,000

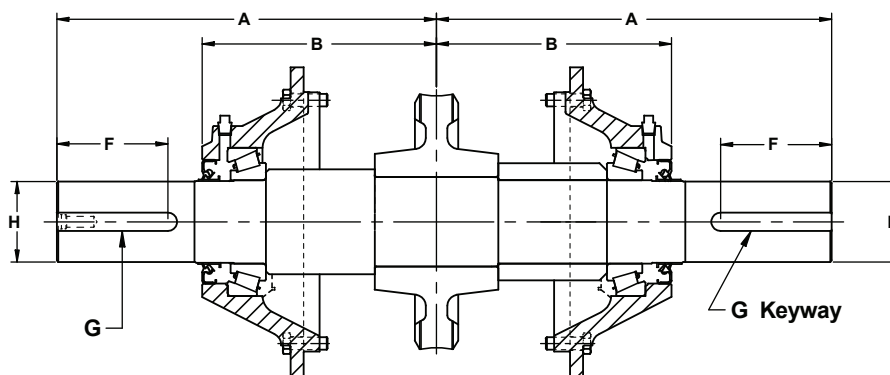
Important: In any applications of Cone Drive products where breakage, damage, disconnection, any other malfunction of any drive train component, or excessive wear could result in personal injury or property damage, a fail-safe device capable of stopping and holding the load in the event of such an occurrence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

Steeple Bearings for Cone Drive Triple 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).