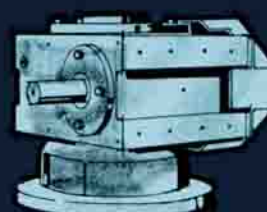
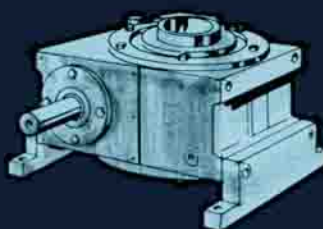
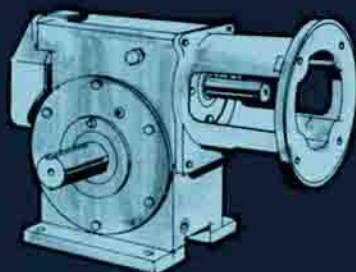
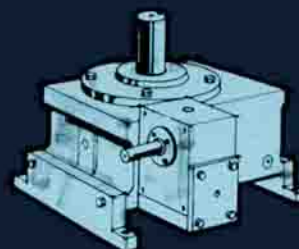
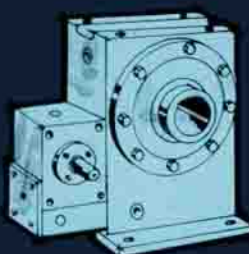
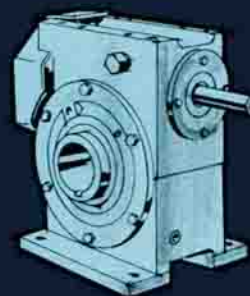
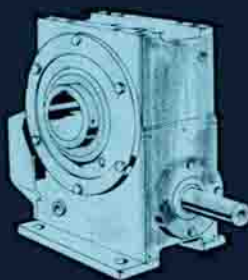
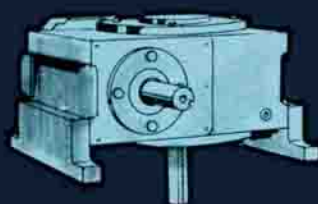


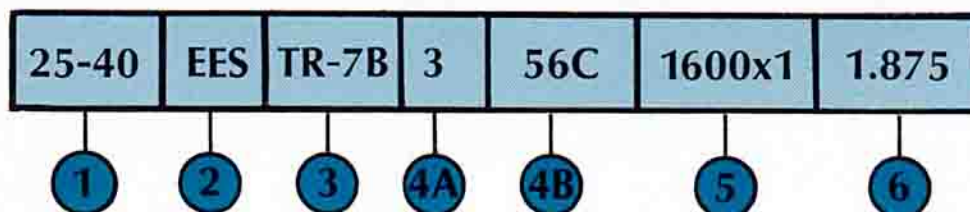
Cleveland Modular
Double Reduction Speed Reducers

Cleveland



Modular Double Reduction Speed Reducers

Ordering Code



- 1** Reducer Size—Gear Size
 25-30—Center Distance : 2.500" Primary—3.000" Secondary
 25-35—Center Distance : 2.500" Primary—3.500" Secondary
 25-40—Center Distance : 2.500" Primary—4.000" Secondary
 25-50—Center Distance : 2.500" Primary—5.000" Secondary
 30-60—Center Distance : 3.000" Primary—6.000" Secondary
 35-70—Center Distance : 3.500" Primary—7.000" Secondary

- 2** Reducer Type
 EE —solid output shaft
 EES—hollow output shaft

- 3** Mounting & Shaft Arrangement
 See page 3

- 4** Motor Data—NEMA "C" Face Mounting (see Page 10)

- 4A** Motor, motor adaptor, coupling
 0 —no motor, adaptor, or coupling
 1 —coupling only
 2 —adaptor only
 3 —coupling and adaptor
 4 —coupling, adaptor and motor

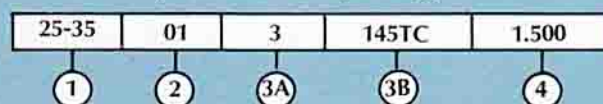
- 4B** Motor frame size (see Page 10)

NOTE: When ordering motor include horsepower, speed, type enclosure, NEMA design, voltage, phase and frequency, also state required special mechanical, thermal and electrical features.

- 5** Gear Ratio

- 6** Required hollow shaft bore diameter in inches for EES unit only (Refer to Page 11)

ACCESSORY ORDERING CODE (when ordered separately)



- 1** Reducer Size
 25-30, 25-35, 25-40, 25-50, 30-60, 35-70

- 2** Mounting Accessories
 01—horizontal feet, for B and C mountings.
 02—vertical feet, for D, E, F and G mountings
 03—torque arm, for H and J mountings
 04—ring base for K mounting
 05—ring base for L, M and N mountings
 06—ring base for P and Q mountings

- 3** Motor Data—NEMA "C" Mounting
 (See Page 10)

- 3A** Motor, motor adaptor, coupling
 1 —coupling only
 2 —adaptor only
 3 —coupling and adaptor
 4 —coupling, adaptor and motor

- 3B** Motor frame size (See Page 10)

NOTE: When ordering motor include horsepower, speed, type enclosure, NEMA design, voltage, phase and frequency, also state required special mechanical, thermal and electrical features.

- 4** Bushings for Type EES Units
 Bushing Bore (Refer to Page 11)

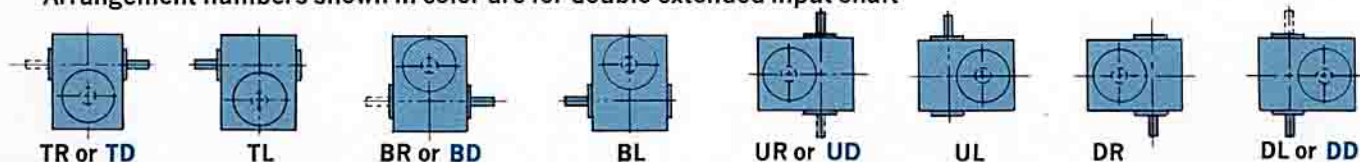
ACCESSORIES INCLUDE HARDWARE FOR MOUNTING ON REDUCER

Mounting and Shaft Arrangements

To find required arrangement, place primary reduction unit (as shown) on secondary reduction unit with center of primary gear on center of secondary worm and specify both arrangement numbers. (See sample arrangements.) See note 1 and 2 below for combinations not available. All arrangements can be wall or ceiling mounted.

PRIMARY REDUCTION UNIT — (side view)

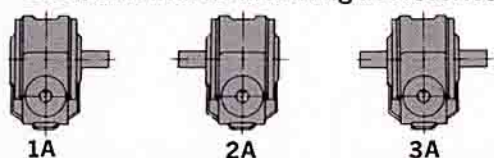
Arrangement numbers shown in color are for double extended input shaft



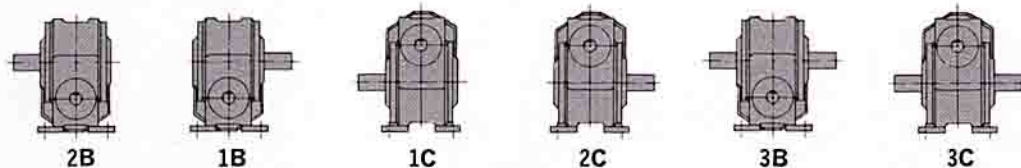
SECONDARY REDUCTION UNIT — (end view)

TYPE E

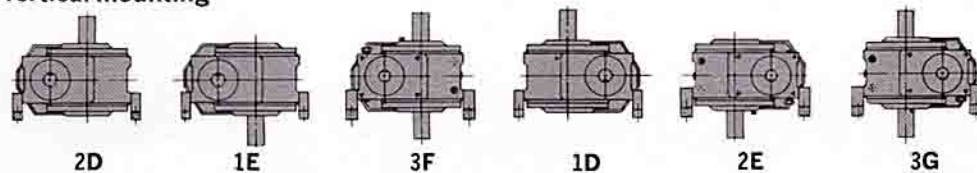
Basic unit with no mounting accessories



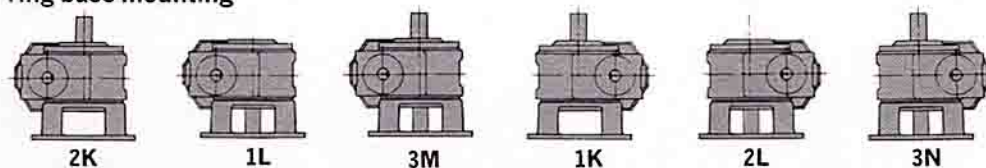
horizontal mounting



vertical mounting



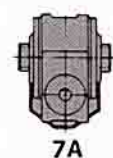
ring base mounting



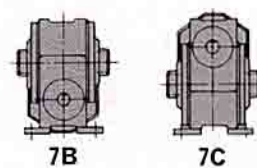
NOTE:

Views are shown from low speed worm end—primary attachment side.

TYPE EES

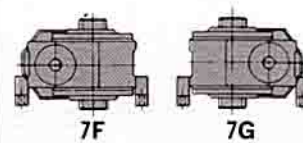


7A



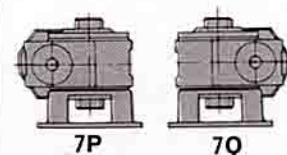
7B

7C



7F

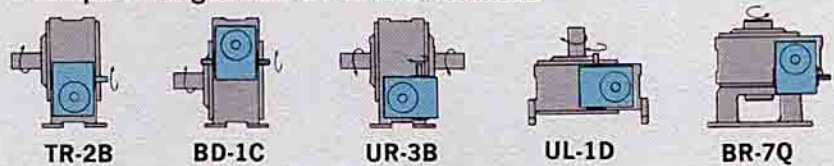
7G



7P

7Q

Sample Arrangements & Relative Rotations



NOTE 1

The following combinations can not be furnished due to interference between Primary & Secondary Units.

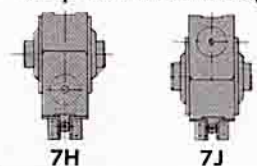
NOTE 2

The following combinations can not be furnished with motor adaptors due to interference between adaptor & Secondary Unit.

Primary Arrgt.		Secondary Arrangement
BR, BL, BD	with	2D, 1E, 3F, 1D, 2E, 3G, 7F & 7G
UL, DL, DD		2D, 1E, 3F & 7F
UR, DR, UD		1D, 2E, 3G & 7G
Primary Arrgt.		Secondary Arrangement
TR, TD	with	2D, 1E, 3F, 7F, 2K, 1L, 3M & 7P
TL		1D, 2E, 3G, 7G, 1K, 2L, 3N & 7Q
BR, BD		2K, 1L, 3M & 7P
BL		1K, 2L, 3N, & 7Q
DR, DL, DD		1C, 2C, 3C, 7C, 7J, 2K, 1L, 3M, 1K, 2L, 3N, 7P & 7Q
UR, UL, UD		1A, 2A, 3A, 7A, 1B, 2B, 3B, 7B & 7H

Input may be in either direction. All shaft rotations are for right hand thread worms.

torque arm mounting



7H

7J

Rating Tables

All ratings shown are based on A.G.M.A. standard 440.03 for a unity service factor. Stock ratios are listed in boldface type and should be ordered whenever possible for quickest delivery. All gear sets listed are right hand threads.

Output torque ratings shown, are given in inch pounds. Overhung loads shown are given in pounds at center of output shaft keyway.

SIZE: 25-30

DOUBLE REDUCTION WORM GEAR

WORM GEARING CENTERS
2.500" PRIMARY
3.000" SECONDARY

Total Reduction	Primary & Secondary Ratio		1750 RPM	1150 RPM	870 RPM	720 RPM	580 RPM	300 RPM	200 RPM	100 RPM
50	10 x 5	Input H.P.	2.07	1.45	1.12	.95	.77	.42	.29	.15
		Output H.P.	1.54	1.04	.79	.65	.53	.27	.18	.09
		Output Torque	2770	2840	2860	2860	2860	2860	2860	2860
		Output R.P.M.	35	23	17.4	14.4	11.6	6.00	4.00	2.00
		Overhung Load	900	880	880	880	880	880	880	880
75	10 x 7.5	Input H.P.	1.59	1.11	.87	.73	.60	.33	.22	.12
		Output H.P.	1.14	.77	.58	.48	.39	.20	.13	.07
		Output Torque	3080	3150	3170	3170	3170	3170	3170	3170
		Output R.P.M.	23.3	15.3	11.6	9.60	7.73	4.00	2.67	1.33
		Overhung Load	860	840	840	840	840	840	840	840
100	10 x 10	Input H.P.	1.32	.92	.72	.61	.50	.27	.19	.10
		Output H.P.	.92	.62	.47	.39	.31	.16	.11	.05
		Output Torque	3290	3370	3390	3390	3390	3390	3390	3390
		Output R.P.M.	17.5	11.5	8.70	7.20	5.80	3.00	2.00	1.00
		Overhung Load	820	800	800	800	800	800	800	800
150	10 x 15	Input H.P.	1.00	.70	.55	.47	.38	.21	.15	.08
		Output H.P.	.65	.44	.33	.27	.22	.11	.08	.04
		Output Torque	3500	3570	3590	3590	3590	3590	3590	3590
		Output R.P.M.	11.7	7.67	5.80	4.80	3.87	2.00	1.33	.667
		Overhung Load	780	760	760	760	760	760	760	760
200	10 x 20	Input H.P.	.77	.54	.42	.36	.30	.16	.11	.06
		Output H.P.	.48	.32	.24	.20	.16	.08	.06	.03
		Output Torque	3440	3500	3520	3520	3520	3520	3520	3520
		Output R.P.M.	8.75	5.75	4.35	3.60	2.90	1.50	1.00	.500
		Overhung Load	790	780	780	780	780	780	780	780
300	20 x 15	Input H.P.	.57	.40	.31	.26	.22	.12	.09	.05
		Output H.P.	.33	.22	.17	.14	.11	.06	.04	.02
		Output Torque	3590	3590	3590	3590	3590	3590	3590	3590
		Output R.P.M.	5.83	3.83	2.90	2.40	1.93	1.00	.667	.333
		Overhung Load	760	760	760	760	760	760	760	760
400	20 x 20	Input H.P.	.44	.31	.24	.20	.17	.09	.07	.03
		Output H.P.	.24	.16	.12	.10	.08	.04	.03	.01
		Output Torque	3520	3520	3520	3520	3520	3520	3520	3520
		Output R.P.M.	4.38	2.88	2.18	1.80	1.45	.750	.500	.250
		Overhung Load	780	780	780	780	780	780	780	780
500	20 x 25	Input H.P.	.40	.29	.23	.19	.16	.09	.06	.03
		Output H.P.	.20	.14	.10	.08	.07	.03	.02	.01
		Output Torque	3680	3680	3680	3680	3680	3680	3680	3680
		Output R.P.M.	3.50	2.30	1.74	1.44	1.16	.600	.400	.200
		Overhung Load	740	740	740	740	740	740	740	740
600	30 x 20	Input H.P.	.33	.23	.18	.16	.13	.07	.05	.03
		Output H.P.	.16	.10	.08	.07	.06	.03	.02	.01
		Output Torque	3520	3520	3520	3520	3520	3520	3520	3520
		Output R.P.M.	2.92	1.92	1.45	1.20	.967	.500	.333	.167
		Overhung Load	780	780	780	780	780	780	780	780
750	30 x 25	Input H.P.	.30	.21	.17	.15	.13	.07	.05	.02
		Output H.P.	.14	.09	.07	.06	.05	.02	.02	.01
		Output Torque	3680	3680	3680	3680	3680	3680	3680	3680
		Output R.P.M.	2.33	1.53	1.16	.960	.773	.400	.267	.133
		Overhung Load	740	740	740	740	740	740	740	740
900	30 x 30	Input H.P.	.27	.19	.15	.13	.11	.06	.05	.02
		Output H.P.	.11	.07	.06	.05	.04	.02	.01	.01
		Output Torque	3680	3680	3680	3680	3680	3680	3680	3680
		Output R.P.M.	1.94	1.28	.967	.800	.644	.333	.222	.111
		Overhung Load	740	740	740	740	740	740	740	740
1000	40 x 25	Input H.P.	.25	.18	.14	.12	.10	.06	.04	.02
		Output H.P.	.10	.07	.05	.04	.03	.02	.01	.01
		Output Torque	3680	3680	3680	3680	3680	3680	3680	3680
		Output R.P.M.	1.75	1.15	.870	.720	.580	.300	.200	.100
		Overhung Load	740	740	740	740	740	740	740	740
1200	40 x 30	Input H.P.	.22	.16	.13	.11	.09	.06	.04	.02
		Output H.P.	.09	.06	.04	.03	.03	.02	.01	.01
		Output Torque	3680	3680	3680	3680	3680	3680	3680	3680
		Output R.P.M.	1.46	.958	.725	.600	.483	.250	.167	.083
		Overhung Load	740	740	740	740	740	740	740	740
1600	40 x 40	Input H.P.	.19	.13	.11	.09	.08	.05	.03	.02
		Output H.P.	.07	.04	.03	.03	.02	.01	.01	.01
		Output Torque	3830	3830	3830	3830	3830	3830	3830	3830
		Output R.P.M.	1.09	.719	.544	.450	.363	.188	.125	.063
		Overhung Load	720	720	720	720	720	720	720	720
2000	40 x 50	Input H.P.	.15	.11	.09	.07	.07	.04	.03	.02
		Output H.P.	.05	.03	.02	.02	.02	.01	.01	.01
		Output Torque	3380	3380	3380	3380	3380	3380	3380	3380
		Output R.P.M.	.875	.575	.435	.360	.290	.150	.100	.050
		Overhung Load	800	800	800	800	800	800	800	800
2400	60 x 40	Input H.P.	.14	.10	.08	.07	.06	.04	.02	.02
		Output H.P.	.04	.03	.02	.02	.01	.01	.01	.01
		Output Torque	3830	3830	3830	3830	3830	3830	3830	3830
		Output R.P.M.	.729	.479	.363	.300	.242	.125	.083	.042
		Overhung Load	720	720	720	720	720	720	720	720
3000	60 x 50	Input H.P.	.11	.08	.07	.06	.05	.03	.02	.01
		Output H.P.	.03	.02	.02	.01	.01	.01	.01	.01
		Output Torque	3380	3380	3380	3380	3380	3380	3380	3380
		Output R.P.M.	.583	.383	.290	.240	.193	.100	.067	.033
		Overhung Load	800	800	800	800	800	800	800	800
3600	60 x 60	Input H.P.	.09	.07	.05	.05	.04	.02	.01	.01
		Output H.P.	.02	.02	.01	.01	.01	.01	.01	.01
		Output Torque	3050	3050	3050	3050	3050	3050	3050	3050
		Output R.P.M.	.486	.319	.242	.200	.161	.083	.056	.028
		Overhung Load	850	850	850	850	850	850	850	850

SIZE: 25-35

DOUBLE REDUCTION WORM GEAR

WORM GEARING CENTERS
2.500" PRIMARY
3.500" SECONDARY

Total Reduction	Primary & Secondary Ratio		1750 RPM	1150 RPM	870 RPM	720 RPM	580 RPM	300 RPM	200 RPM	100 RPM
50	10 x 5	Input H.P.	3.06	2.13	1.67	1.40	1.15	.63	.43	.22
		Output H.P.	2.26	1.53	1.17	.97	.78	.40	.27	.13
		Output Torque	4070	4200	4230	4230	4230	4230	4230	4230
		Output R.P.M.	35	23	17.4	14.4	11.6	6.00	4.00	2.00
		Overhung Load	1500	1480	1480	1480	1480	1480	1480	1480
75	10 x 75	Input H.P.	2.34	1.63	1.27	1.07	.88	.48	.33	.18
		Output H.P.	1.69	1.14	.87	.72	.58	.30	.20	.10
		Output Torque	4560	4680	4710	4710	4710	4710	4710	4710
		Output R.P.M.	23.3	15.3	11.6	9.60	7.73	4.00	2.67	1.33
		Overhung Load	1420	1400	1400	1400	1400	1400	1400	1400
100	10 x 10	Input H.P.	1.93	1.35	1.05	.88	.73	.40	.27	.15
		Output H.P.	1.35	.91	.69	.57	.46	.24	.16	.08
		Output Torque	4870	4990	5020	5020	5020	5020	5020	5020
		Output R.P.M.	17.5	11.5	8.70	7.20	5.80	3.00	2.00	1.00
		Overhung Load	1370	1350	1350	1350	1350	1350	1350	1350
150	10 x 15	Input H.P.	1.46	1.02	.80	.67	.56	.31	.21	.11
		Output H.P.	.96	.65	.49	.41	.33	.17	.11	.06
		Output Torque	5170	5300	5320	5320	5320	5320	5320	5320
		Output R.P.M.	11.7	7.67	5.80	4.80	3.87	2.00	1.33	.667
		Overhung Load	1330	1300	1300	1300	1300	1300	1300	1300
200	10 x 20	Input H.P.	1.13	.78	.62	.52	.44	.24	.17	.09
		Output H.P.	.71	.48	.36	.30	.24	.12	.08	.04
		Output Torque	5150	5260	5280	5280	5280	5280	5280	5280
		Output R.P.M.	8.75	5.75	4.35	3.60	2.90	1.50	1.00	.500
		Overhung Load	1340	1320	1320	1320	1320	1320	1320	1320
300	20 x 15	Input H.P.	.82	.58	.46	.36	.32	.18	.12	.07
		Output H.P.	.49	.33	.25	.20	.16	.08	.06	.03
		Output Torque	5320	5320	5320	5320	5320	5320	5320	5320
		Output R.P.M.	3.83	2.90	2.40	1.93	1.00	.667	.333	.100
		Overhung Load	1300	1300	1300	1300	1300	1300	1300	1300
400	20 x 20	Input H.P.	.64	.45	.36	.30	.24	.14	.10	.05
		Output H.P.	.36	.24	.18	.15	.12	.06	.04	.02
		Output Torque	5280	5280	5280	5280	5280	5280	5280	5280
		Output R.P.M.	4.38	2.88	2.18	1.80	1.45	.750	.500	.250
		Overhung Load	1320	1320	1320	1320	1320	1320	1320	1320
500	20 x 25	Input H.P.	.60	.43	.34	.28	.24	.13	.09	.05
		Output H.P.	.03	.20	.15	.13	.10	.05	.03	.02
		Output Torque	5490	5490	5490	5490	5490	5490	5490	5490
		Output R.P.M.	3.50	2.30	1.74	1.44	1.16	.600	.400	.200
		Overhung Load	1280	1280	1280	1280	1280	1280	1280	1280
600	30 x 20	Input H.P.	.48	.33	.26	.23	.19	.11	.08	.04
		Output H.P.	.24	.16	.12	.10	.08	.04	.03	.01
		Output Torque	5280	5280	5280	5280	5280	5280	5280	5280
		Output R.P.M.	2.92	1.92	1.45	1.20	.967	.500	.333	.167
		Overhung Load	1320	1320	1320	1320	1320	1320	1320	1320
750	30 x 25	Input H.P.	.45	.32	.25	.22	.17	.10	.08	.04
		Output H.P.	.20	.13	.10	.08	.07	.03	.02	.01
		Output Torque	5490	5490	5490	5490	5490	5490	5490	5490
		Output R.P.M.	2.33	1.53	1.16	.960	.773	.400	.267	.133
		Overhung Load	1280	1280	1280	1280	1280	1280	1280	1280
900	30 x 30	Input H.P.	.39	.27	.22	.21	.16	.09	.07	.03
		Output H.P.	.17	.11	.08	.07	.06	.03	.02	.01
		Output Torque	5460	5460	5460	5460	5460	5460	5460	5460
		Output R.P.M.	1.94	1.28	.967	.800	.644	.333	.222	.111
		Overhung Load	1290	1290	1290	1290	1290	1290	1290	1290
1000	40 x 25	Input H.P.	.37	.26	.21	.18	.15	.09	.06	.03
		Output H.P.	.15	.10	.08	.06	.05	.03	.02	.01
		Output Torque	5490	5490	5490	5490	5490	5490	5490	5490
		Output R.P.M.	1.75	1.15	.870	.720	.580	.300	.200	.100
		Overhung Load	1280	1280	1280	1280	1280	1280	1280	1280
1200	40 x 30	Input H.P.	.32	.23	.18	.15	.13	.08	.05	.03
		Output H.P.	.13	.08	.06	.05	.04	.02	.01	.01
		Output Torque	5460	5460	5460	5460	5460	5460	5460	5460
		Output R.P.M.	1.46	.968	.725	.600	.483	.250	.167	.083
		Overhung Load	1290	1290	1290	1290	1290	1290	1290	1290
1600	40 x 40	Input H.P.	.24	.17	.14	.12	.10	.06	.04	.02
		Output H.P.	.09	.06	.05	.04	.03	.02	.01	—
		Output Torque	5330	5330	5330	5330	5330	5330	5330	5330
		Output R.P.M.	1.09	.719	.544	.450	.363	.188	.125	.063
		Overhung Load	1300	1300	1300	1300	1300	1300	1300	1300
2000	40 x 50	Input H.P.	.21	.15	.12	.10	.09	.05	.04	.02
		Output H.P.	.07	.05	.03	.03	.02	.01	.01	—
		Output Torque	4940	4940	4940	4940	4840	4940	4940	4940
		Output R.P.M.	.875	.575	.435	.360	.290	.150	.100	.050
		Overhung Load	1370	1370	1370	1370	1370	1370	1370	1370
2400	60 x 40	Input H.P.	.19	.14	.11	.10	.08	.05	.03	.02
		Output H.P.	.06	.04	.03	.03	.02	.01	.01	—
		Output Torque	5330	5330	5330	5330	5330	5330	5330	5330
		Output R.P.M.	.729	.479	.363	.300	.242	.125	.083	.042
		Overhung Load	1300	1300	1300	1300	1300	1300	1300	1300
3000	60 x 50	Input H.P.	.16	.11	.09	.08	.07	.04	.03	.02
		Output H.P.	.05	.03	.02	.02	.02	.01	—	—
		Output Torque	4940	4940	4940	4940	4940	4940	4940	4940
		Output R.P.M.	.583	.383	.290	.240	.193	.100	.067	.033
		Overhung Load	1370	1370	1370	1370	1370	1370	1370	1370
3600	60 x 60	Input H.P.	.15	.11	.09	.08	.07	.03	.02	.01
		Output H.P.	.04	.02	.02	.02	.01	.01	—	—
		Output Torque	4810	4810	4810	4810	4810	4810	4810	4810
		Output R.P.M.	.486	.319	.242	.200	.161	.083	.056	.028
		Overhung Load	1390	1390	1390	1390	1390	1390	1390	1390

SIZE: 25-40

DOUBLE REDUCTION WORM GEAR

WORM GEARING CENTERS
2.500" PRIMARY
4.000" SECONDARY

Total Reduction	Primary & Secondary Ratio		1750 RPM	1150 RPM	870 RPM	720 RPM	580 RPM	300 RPM	200 RPM	100 RPM
48 1/3	10 x 4 1/2	Input H.P.	3.32	2.72	2.30	2.06	1.69	.92	.63	.33
		Output H.P.	2.47	1.97	1.62	1.43	1.15	.60	.40	.20
		Output Torque	4300	5200	5690	6050	6050	6050	6050	6050
		Output R.P.M.	36.2	23.8	18.0	14.9	12.0	6.21	4.14	2.07
		Overhung Load	1850	1730	1830	1870	2200	2200	2200	2200
72 1/2	10 x 7 1/2	Input H.P.	3.45	2.42	1.89	1.59	1.31	.70	.49	.26
		Output H.P.	2.51	1.70	1.30	1.07	.86	.45	.30	.15
		Output Torque	6550	6760	6800	6800	6800	6800	6800	6800
		Output R.P.M.	24.1	15.9	12.0	9.93	8.00	4.14	2.76	1.38
		Overhung Load	2070	2020	2000	2000	2000	2000	2000	2000
100	10 x 10	Input H.P.	2.82	1.98	1.55	1.31	1.08	.59	.41	.21
		Output H.P.	1.98	1.34	1.02	.84	.68	.35	.23	.12
		Output Torque	7120	7330	7390	7390	7390	7390	7390	7390
		Output R.P.M.	17.5	11.5	8.70	7.20	5.80	3.00	2.00	1.00
		Overhung Load	1950	1900	1880	1880	1880	1880	1880	1880
155	10 x 15 1/2	Input H.P.	1.93	1.35	1.06	.89	.74	.41	.28	.15
		Output H.P.	1.28	.87	.66	.55	.44	.23	.15	.08
		Output Torque	7160	7350	7400	7400	7400	7400	7400	7400
		Output R.P.M.	11.3	7.42	5.61	4.65	3.74	1.94	1.29	.645
		Overhung Load	1940	1900	1880	1880	1880	1880	1880	1880
195	10 x 19 1/2	Input H.P.	1.69	1.20	.94	.79	.66	.36	.25	.13
		Output H.P.	1.06	.72	.55	.45	.36	.19	.13	.06
		Output Torque	7470	7660	7710	7710	7710	7710	7710	7710
		Output R.P.M.	8.97	5.90	4.46	3.69	2.97	1.54	1.03	.513
		Overhung Load	1870	1820	1800	1800	1800	1800	1800	1800
310	20 x 15 1/2	Input H.P.	1.09	.77	.60	.51	.42	.23	.16	.09
		Output H.P.	.66	.44	.33	.27	.22	.11	.08	.04
		Output Torque	7400	7400	7400	7400	7400	7400	7400	7400
		Output R.P.M.	5.65	3.71	2.81	2.32	1.87	.968	.645	.322
		Overhung Load	1880	1880	1880	1880	1880	1880	1880	1880
390	20 x 19 1/2	Input H.P.	.97	.70	.54	.46	.37	.21	.15	.08
		Output H.P.	.55	.36	.28	.23	.18	.09	.06	.03
		Output Torque	7710	7710	7710	7710	7710	7710	7710	7710
		Output R.P.M.	4.49	2.95	2.23	1.85	1.49	.769	.513	.256
		Overhung Load	1800	1800	1800	1800	1800	1800	1800	1800
520	20 x 26	Input H.P.	.85	.60	.47	.40	.33	.19	.13	.07
		Output H.P.	.43	.29	.22	.18	.14	.07	.05	.02
		Output Torque	8090	8090	8090	8090	8090	8090	8090	8090
		Output R.P.M.	3.37	2.21	1.67	1.38	1.12	.577	.345	.192
		Overhung Load	1730	1730	1730	1730	1730	1730	1730	1730
585	30 x 19 1/2	Input H.P.	.72	.51	.40	.35	.30	.16	.12	.06
		Output H.P.	.36	.24	.18	.15	.13	.06	.04	.02
		Output Torque	7710	7710	7710	7710	7710	7710	7710	7710
		Output R.P.M.	2.99	1.97	1.49	1.23	.991	.513	.342	.171
		Overhung Load	1800	1800	1800	1800	1800	1800	1800	1800
780	30 x 26	Input H.P.	.63	.45	.35	.31	.25	.14	.11	.05
		Output H.P.	.29	.19	.14	.12	.10	.05	.03	.01
		Output Torque	8090	8090	8090	8090	8090	8090	8090	8090
		Output R.P.M.	2.24	1.47	1.12	.923	.744	.385	.256	.128
		Overhung Load	1730	1730	1730	1730	1730	1730	1730	1730
870	30 x 29	Input H.P.	.57	.41	.32	.28	.24	.13	.10	.05
		Output H.P.	.25	.17	.13	.10	.09	.04	.03	.01
		Output Torque	7960	7960	7960	7960	7960	7960	7960	7960
		Output R.P.M.	2.01	1.32	1.00	.828	.667	.345	.230	.115
		Overhung Load	1750	1750	1750	1750	1750	1750	1750	1750
1040	40 x 26	Input H.P.	.51	.37	.30	.25	.22	.13	.09	.05
		Output H.P.	.22	.14	.11	.09	.07	.04	.02	.01
		Output Torque	8090	8090	8090	8090	8090	8090	8090	8090
		Output R.P.M.	1.68	1.11	.837	.692	.558	.288	.192	.096
		Overhung Load	1730	1730	1730	1730	1730	1730	1730	1730
1160	40 x 29	Input H.P.	.47	.33	.27	.23	.20	.12	.08	.04
		Output H.P.	.19	.13	.10	.08	.07	.03	.02	.01
		Output Torque	7960	7960	7960	7960	7960	7960	7960	7960
		Output R.P.M.	1.51	.991	.750	.621	.500	.259	.172	.086
		Overhung Load	1750	1750	1750	1750	1750	1750	1750	1750
1600	40 x 40	Input H.P.	.38	.27	.22	.19	.16	.10	.07	.04
		Output H.P.	.14	.09	.07	.06	.05	.02	.02	.01
		Output Torque	7750	7750	7750	7750	7750	7750	7750	7750
		Output R.P.M.	1.09	.719	.544	.450	.363	.188	.125	.063
		Overhung Load	1800	1800	1800	1800	1800	1800	1800	1800
2000	40 x 50	Input H.P.	.30	.22	.18	.15	.13	.08	.05	.03
		Output H.P.	.10	.07	.05	.04	.03	.02	.01	.01
		Output Torque	7280	7280	7280	7280	7280	7280	7280	7280
		Output R.P.M.	.875	.575	.435	.360	.290	.150	.100	.050
		Overhung Load	1900	1900	1900	1900	1900	1900	1900	1900
2400	60 x 40	Input H.P.	.29	.21	.17	.14	.12	.07	.05	.03
		Output H.P.	.09	.06	.04	.04	.03	.02	.01	.01
		Output Torque	7750	7750	7750	7750	7750	7750	7750	7750
		Output R.P.M.	.729	.479	.363	.300	.242	.125	.083	.042
		Overhung Load	1800	1800	1800	1800	1800	1800	1800	1800
3000	60 x 50	Input H.P.	.23	.17	.14	.12	.10	.06	.04	.02
		Output H.P.	.07	.04	.03	.03	.02	.01	.01	.01
		Output Torque	7280	7280	7280	7280	7280	7280	7280	7280
		Output R.P.M.	.583	.383	.290	.240	.193	.100	.067	.033
		Overhung Load	1900	1900	1900	1900	1900	1900	1900	1900
3600	60 x 60	Input H.P.	.19	.13	.11	.10	.08	.05	.03	.02
		Output H.P.	.05	.03	.03	.02	.02	.01	.01	.01
		Output Torque	6610	6610	6610	6610	6610	6610	6610	6610
		Output R.P.M.	.486	.319	.242	.200	.161	.083	.056	.028
		Overhung Load	2080	2080	2080	2080	2080	2080	2080	2080

SIZE: 25-50

DOUBLE REDUCTION WORM GEAR

WORM GEARING CENTERS
2.500" PRIMARY
5.000" SECONDARY

Total Reduction	Primary & Secondary Ratio		1750 RPM	1150 RPM	870 RPM	720 RPM	580 RPM	300 RPM	200 RPM	100 RPM
48⅓	10 x 4%	Input H.P.	3.32	2.72	2.30	2.03	1.73	1.01	.71	.38
		Output H.P.	2.49	1.98	1.64	1.42	1.19	.66	.45	.23
		Output Torque	4330	5250	5750	6010	6260	6730	6860	6980
		Output R.P.M.	36.2	23.8	18.0	14.9	12.0	6.21	4.14	2.07
		Overhung Load	3280	3230	3200	3180	3150	3130	3120	3110
74	10 x 7½	Input H.P.	3.32	2.72	2.30	2.03	1.73	1.01	.71	.38
		Output H.P.	2.44	1.94	1.60	1.39	1.16	.64	.44	.22
		Output Torque	6500	7860	8580	8980	9330	10000	10200	10300
		Output R.P.M.	23.6	15.5	11.8	9.73	7.84	4.05	2.70	1.35
		Overhung Load	3140	3050	2980	2940	2900	2830	2810	2800
106⅔	10 x 10½	Input H.P.	3.32	2.72	2.30	2.03	1.73	1.01	.71	.38
		Output H.P.	2.35	1.86	1.53	1.32	1.11	.61	.41	.21
		Output Torque	9010	10900	11800	12400	12800	13700	13900	14000
		Output R.P.M.	16.4	10.8	8.16	6.75	5.44	2.81	1.88	.938
		Overhung Load	2930	2740	2650	2560	2520	2380	2350	2300
143⅓	10 x 14⅓	Input H.P.	3.32	2.58	2.03	1.70	1.40	.77	.53	.28
		Output H.P.	2.29	1.72	1.31	1.08	.87	.45	.30	.15
		Output Torque	11800	13500	13600	13600	13600	13600	13600	13600
		Output R.P.M.	12.2	8.02	6.07	5.02	4.05	2.09	1.40	.698
		Overhung Load	2650	2390	2380	2380	2380	2380	2380	2380
200	10 x 20	Input H.P.	2.97	2.11	1.67	1.41	1.16	.65	.45	.24
		Output H.P.	1.91	1.30	.99	.82	.68	.34	.23	.11
		Output Torque	13700	14200	14300	14300	14300	14300	14300	14300
		Output R.P.M.	8.75	5.75	4.35	3.60	2.90	1.50	1.00	.500
		Overhung Load	2380	2300	2280	2280	2280	2280	2280	2280
286⅓	20 x 14⅓	Input H.P.	2.09	1.46	1.15	.96	.80	.44	.30	.17
		Output H.P.	1.31	.87	.66	.54	.44	.23	.15	.08
		Output Torque	13600	13600	13600	13600	13600	13600	13600	13600
		Output R.P.M.	6.10	4.01	3.03	2.51	2.02	1.05	.698	.349
		Overhung Load	2380	2380	2380	2380	2380	2380	2380	2380
400	20 x 20	Input H.P.	1.72	1.21	.95	.80	.67	.37	.26	.14
		Output H.P.	.99	.66	.50	.41	.33	.17	.11	.06
		Output Torque	14300	14300	14300	14300	14300	14300	14300	14300
		Output R.P.M.	4.38	2.88	2.18	1.80	1.45	.750	.500	.250
		Overhung Load	2280	2280	2280	2280	2280	2280	2280	2280
500	20 x 25	Input H.P.	1.50	1.06	.84	.71	.59	.33	.23	.13
		Output H.P.	.81	.54	.41	.33	.27	.14	.09	.05
		Output Torque	14600	14600	14600	14600	14600	14600	14600	14600
		Output R.P.M.	2.50	2.30	1.74	1.44	1.16	.600	.400	.200
		Overhung Load	2220	2220	2220	2220	2220	2220	2220	2220
600	30 x 20	Input H.P.	1.27	.89	.72	.61	.53	.29	.21	.10
		Output H.P.	.66	.43	.33	.27	.23	.11	.08	.03
		Output Torque	14300	14300	14300	14300	14300	14300	14300	14300
		Output R.P.M.	2.92	1.92	1.45	1.20	.967	.500	.333	.167
		Overhung Load	2280	2280	2280	2280	2280	2280	2280	2280
750	30 x 25	Input H.P.	1.11	.79	.63	.54	.46	.26	.19	.03
		Output H.P.	.54	.35	.27	.22	.19	.09	.06	.03
		Output Torque	14600	14600	14600	14600	14600	14600	14600	14600
		Output R.P.M.	2.33	1.53	1.16	.960	.773	.400	.267	.133
		Overhung Load	2220	2220	2220	2220	2220	2220	2220	2220
900	30 x 30	Input H.P.	.91	.64	.52	.44	.38	.21	.16	.07
		Output H.P.	.43	.28	.21	.18	.15	.07	.05	.02
		Output Torque	13900	13900	13900	13900	13900	13900	13900	13900
		Output R.P.M.	1.94	1.28	.967	.800	.644	.333	.222	.111
		Overhung Load	2350	2350	2350	2350	2350	2350	2350	2350
1000	40 x 25	Input H.P.	.91	.65	.52	.44	.38	.23	.15	.08
		Output H.P.	.41	.27	.20	.17	.14	.07	.05	.02
		Output Torque	14600	14600	14600	14600	14600	14600	14600	14600
		Output R.P.M.	1.75	1.15	.870	.720	.580	.300	.200	.100
		Overhung Load	2220	2220	2220	2220	2220	2220	2220	2220
1200	40 x 30	Input H.P.	.75	.53	.43	.36	.31	.18	.12	.07
		Output H.P.	.32	.21	.16	.13	.11	.06	.04	.02
		Output Torque	13900	13900	13900	13900	13900	13900	13900	13900
		Output R.P.M.	1.46	.958	.725	.600	.483	.250	.235	.135
		Overhung Load	2350	2350	2350	2350	2350	2350	2350	2350
1600	40 x 40	Input H.P.	.66	.48	.38	.33	.28	.17	.11	.06
		Output H.P.	.25	.16	.12	.10	.08	.04	.03	.01
		Output Torque	14200	14200	14200	14200	14200	14200	14200	14200
		Output R.P.M.	1.09	.719	.544	.450	.363	.188	.125	.063
		Overhung Load	2290	2290	2290	2290	2290	2290	2290	2290
1920	40 x 48	Input H.P.	.58	.42	.34	.29	.24	.14	.10	.06
		Output H.P.	.20	.13	.10	.08	.06	.03	.02	.01
		Output Torque	13600	13600	13600	13600	13600	13600	13600	13600
		Output R.P.M.	.911	.599	.453	.375	.302	.156	.104	.052
		Overhung Load	2370	2370	2370	2370	2370	2370	2370	2370
2400	60 x 40	Input H.P.	.51	.36	.29	.25	.21	.13	.09	.05
		Output H.P.	.16	.11	.08	.07	.05	.03	.02	.01
		Output Torque	14200	14200	14200	14200	14200	14200	14200	14200
		Output R.P.M.	.729	.479	.363	.300	.242	.125	.083	.042
		Overhung Load	2290	2290	2290	2290	2290	2290	2290	2290
2880	60 x 48	Input H.P.	.45	.32	.26	.23	.19	.19	.08	.05
		Output H.P.	.13	.09	.06	.05	.04	.04	.02	.01
		Output Torque	13600	13600	13600	13600	13600	13600	13600	13600
		Output R.P.M.	.608	.399	.302	.250	2.01	.201	.069	.035
		Overhung Load	2370	2370	2370	2370	2370	2370	2370	2370
3360	60 x 56	Input H.P.	.37	.27	.22	.19	.16	.10	.07	.04
		Output H.P.	.11	.07	.05	.04	.03	.02	.01	.01
		Output Torque	12800	12800	12800	12800	12800	12800	12800	12800
		Output R.P.M.	.521	.342	.259	.214	.173	.089	.060	.030
		Overhung Load	2490	2490	2490	2490	2490	2490	2490	2490

SIZE: 30-60

DOUBLE REDUCTION WORM GEAR

WORM GEARING CENTERS
3.000" PRIMARY
6.000" SECONDARY

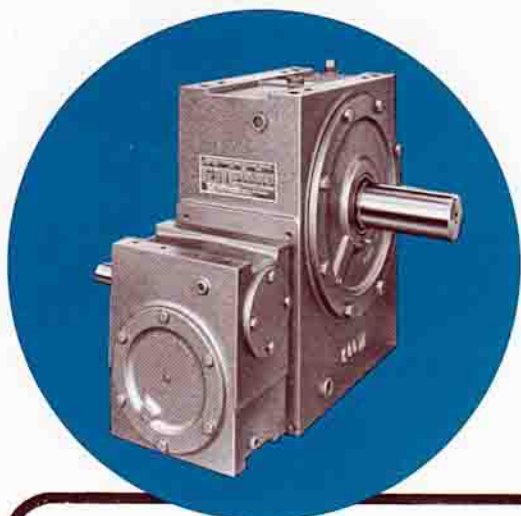
Total Reduction	Primary & Secondary Ratio		1750 RPM	1150 RPM	870 RPM	720 RPM	580 RPM	300 RPM	200 RPM	100 RPM
48½	10 x 4%	Input H.P.	5.30	4.47	3.85	3.49	3.03	1.77	1.24	.66
		Output H.P.	4.11	3.37	2.84	2.55	2.16	1.22	.83	.42
		Output Torque	7150	8920	9970	10800	11300	12400	12600	12800
		Output R.P.M.	36.2	23.8	17.9	14.9	12.0	6.21	4.14	2.07
		Overhung Load	3920	3860	3820	3790	3770	3710	3700	3690
74	10 x 7½	Input H.P.	5.30	4.47	3.85	3.49	3.03	1.77	1.24	.66
		Output H.P.	4.03	3.30	2.78	2.49	2.11	1.19	.80	.41
		Output Torque	10500	13100	14600	15800	16600	18100	18300	18700
		Output R.P.M.	24.1	15.9	12.0	9.93	8.00	4.14	2.76	1.38
		Overhung Load	3800	3670	3590	3520	3460	3360	3340	3310
110	10 x 11	Input H.P.	5.30	4.47	3.85	3.42	2.81	1.51	1.05	.55
		Output H.P.	3.91	3.19	2.68	2.34	1.89	.98	.65	.32
		Output Torque	15500	19200	21400	22600	22600	22600	22600	22600
		Output R.P.M.	15.9	10.5	7.91	6.55	5.27	2.73	1.82	.909
		Overhung Load	3540	3270	3090	2980	2980	2980	2980	2980
146½	10 x 14½	Input H.P.	5.76	4.10	3.22	2.71	2.25	1.22	.81	.45
		Output H.P.	4.03	2.76	2.11	1.75	1.41	.73	.48	.24
		Output Torque	21300	22200	22400	22400	22400	22400	22400	22400
		Output R.P.M.	11.9	7.84	5.93	4.91	3.95	2.05	1.36	.682
		Overhung Load	3100	3020	3000	3000	3000	3000	3000	3000
200	10 x 20	Input H.P.	4.54	3.24	2.55	2.15	1.79	.97	.68	.36
		Output H.P.	3.03	2.07	1.58	1.31	1.05	.55	.36	.18
		Output Torque	21800	22700	22900	22900	22900	22900	22900	22900
		Output R.P.M.	8.75	5.75	4.35	3.60	2.90	1.50	1.00	.500
		Overhung Load	3050	2970	2950	2950	2950	2950	2950	2950
293½	20 x 14½	Input H.P.	3.37	2.36	1.85	1.56	1.21	.70	.50	.27
		Output H.P.	2.11	1.41	1.07	.87	.70	.36	.24	.12
		Output Torque	22400	22400	22400	22400	22400	22400	22400	22400
		Output R.P.M.	5.97	3.92	2.97	2.45	1.98	1.02	.682	.341
		Overhung Load	3000	3000	3000	3000	3000	3000	3000	3000
400	20 x 20	Input H.P.	2.67	1.87	1.47	1.20	1.03	.57	.41	.22
		Output H.P.	1.58	1.05	.80	.65	.53	.27	.18	.09
		Output Torque	22900	22900	22900	22900	22900	22900	22900	22900
		Output R.P.M.	4.38	2.88	2.18	1.80	1.45	.750	.500	.250
		Overhung Load	2950	2950	2950	2950	2950	2950	2950	2950
490	20 x 24½	Input H.P.	2.22	1.56	1.28	1.08	.90	.49	.35	.19
		Output H.P.	1.28	.85	.67	.55	.44	.23	.15	.08
		Output Torque	23600	23600	23600	23600	23600	23600	23600	23600
		Output R.P.M.	3.57	2.35	1.78	1.47	1.18	.612	.408	.204
		Overhung Load	2890	2890	2890	2890	2890	2890	2890	2890
600	20 x 30	Input H.P.	1.91	1.35	1.21	.90	.75	.42	.29	.16
		Output H.P.	1.04	.69	.52	.43	.35	.18	.12	.06
		Output Torque	22500	22500	22500	22500	22500	22500	22500	22500
		Output R.P.M.	2.92	1.92	1.45	1.20	.967	.500	.333	.167
		Overhung Load	2990	2990	2990	2990	2990	2990	2990	2990
800	20 x 40	Input H.P.	1.63	1.16	.92	.78	.65	.36	.26	.14
		Output H.P.	.78	.52	.40	.32	.26	.13	.09	.05
		Output Torque	22700	22700	22700	22700	22700	22700	22700	22700
		Output R.P.M.	2.19	1.44	1.09	.900	.725	.375	.250	.125
		Overhung Load	2970	2970	2970	2970	2970	2970	2970	2970
980	40 x 24½	Input H.P.	1.47	.99	.78	.67	.56	.33	.22	.12
		Output H.P.	.67	.44	.34	.28	.23	.12	.08	.04
		Output Torque	23600	23600	23600	23600	23600	23600	23600	23600
		Output R.P.M.	1.79	1.17	.888	.735	.592	.306	.204	.102
		Overhung Load	2890	2890	2890	2890	2890	2890	2890	2890
1200	40 x 30	Input H.P.	1.23	.82	.65	.56	.48	.27	.19	.10
		Output H.P.	.52	.35	.26	.21	.18	.09	.06	.03
		Output Torque	22500	22500	22500	22500	22500	22500	22500	22500
		Output R.P.M.	1.46	.958	.725	.600	.483	.250	.167	.083
		Overhung Load	2990	2990	2990	2990	2990	2990	2990	2990
1600	40 x 40	Input H.P.	1.05	.71	.57	.49	.42	.24	.17	.09
		Output H.P.	.39	.26	.20	.16	.13	.07	.05	.02
		Output Torque	22700	22700	22700	22700	22700	22700	22700	22700
		Output R.P.M.	1.09	.719	.544	.450	.363	.188	.125	.063
		Overhung Load	2970	2970	2970	2970	2970	2970	2970	2970
2000	40 x 50	Input H.P.	.93	.63	.47	.44	.37	.21	.15	.08
		Output H.P.	.31	.20	.15	.13	.11	.06	.03	.02
		Output Torque	22000	22000	22000	22000	22000	22000	22000	22000
		Output R.P.M.	.875	.575	.435	.360	.290	.150	.100	.050
		Overhung Load	3040	3040	3040	3040	3040	3040	3040	3040
2400	60 x 40	Input H.P.	.79	.57	.47	.39	.34	.19	.12	.07
		Output H.P.	.26	.17	.13	.11	.09	.05	.03	.02
		Output Torque	22700	22700	22700	22700	22700	22700	22700	22700
		Output R.P.M.	.729	.479	.363	.300	.242	.125	.083	.042
		Overhung Load	2970	2970	2970	2970	2970	2970	2970	2970
3000	60 x 50	Input H.P.	.69	.50	.42	.35	.30	.16	.11	.06
		Output H.P.	.20	.13	.11	.08	.07	.03	.02	.01
		Output Torque	22000	22000	22000	22000	22000	22000	22000	22000
		Output R.P.M.	.583	.383	.290	.240	.193	.100	.067	.033
		Overhung Load	3040	3040	3040	3040	3040	3040	3040	3040
3600	60 x 60	Input H.P.	.56	.40	.33	.28	.24	.13	.09	.06
		Output H.P.	.16	.10	.08	.06	.05	.03	.02	.01
		Output Torque	20300	20300	20300	20300	20300	20300	20300	20300
		Output R.P.M.	.486	.319	.242	.200	.161	.083	.056	.028
		Overhung Load	3180	3180	3180	3180	3180	3180	3180	3180

SIZE: 35-70

DOUBLE REDUCTION WORM GEAR

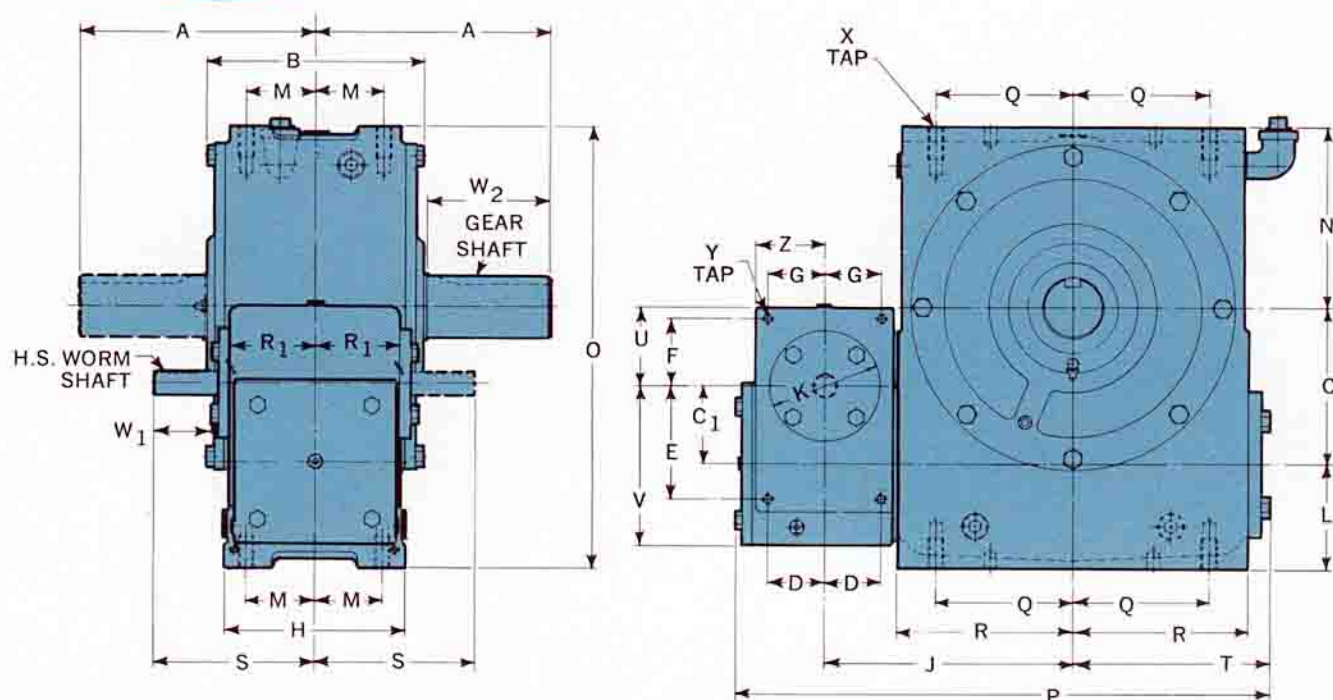
WORM GEARING CENTERS
3.500" PRIMARY
7.000" SECONDARY

Total Reduction	Primary & Secondary Ratio		1750 RPM	1150 RPM	870 RPM	720 RPM	580 RPM	300 RPM	200 RPM	100 RPM
48⅓	10 x 4%	Input H.P.	7.61	6.44	5.58	4.98	4.30	2.58	1.81	.97
		Output H.P.	5.95	4.93	4.18	3.68	3.15	1.80	1.24	.63
		Output Torque	10300	13000	14700	15600	16500	18300	18800	19200
		Output R.P.M.	36.2	23.8	17.9	14.9	12.0	6.21	4.14	2.07
		Overhung Load	5750	5600	5500	5430	5370	5220	5180	5140
70	10 x 7	Input H.P.	7.61	6.44	5.58	4.98	4.30	2.58	1.81	.97
		Output H.P.	5.86	4.85	4.11	3.62	3.09	1.77	1.21	.62
		Output Torque	14800	18600	20900	22200	23500	26000	26700	27200
		Output R.P.M.	25.0	16.4	12.4	10.3	8.29	4.29	2.86	1.43
		Overhung Load	5490	5200	4990	4860	4720	4430	4350	4290
103⅓	10 x 10½	Input H.P.	7.61	6.44	5.58	4.98	4.30	2.34	1.60	.83
		Output H.P.	5.64	4.66	3.94	3.46	2.95	1.52	1.02	.51
		Output Torque	21000	26400	29500	31300	33100	33100	33100	33100
		Output R.P.M.	16.9	11.1	8.42	6.97	5.61	2.90	1.94	.968
		Overhung Load	4980	4390	3990	3730	3460	3460	3460	3460
155	10 x 15½	Input H.P.	7.61	5.85	4.59	3.86	3.17	1.73	1.19	.64
		Output H.P.	5.41	4.03	3.08	2.55	2.06	1.06	.71	.35
		Output Torque	30200	34200	34600	34600	34600	34600	34600	34600
		Output R.P.M.	11.3	7.42	5.61	4.65	3.74	1.94	1.29	.645
		Overhung Load	3890	3290	3230	3230	3230	3230	3230	3230
190	10 x 19	Input H.P.	7.14	5.08	3.96	3.38	2.76	1.52	1.05	.56
		Output H.P.	4.87	3.35	2.55	2.12	1.70	.88	.59	.29
		Output Torque	33300	34800	35200	35200	35200	35200	35200	35200
		Output R.P.M.	9.21	6.05	4.58	3.79	3.05	1.58	1.05	.53
		Overhung Load	3430	3200	3130	3130	3130	3130	3130	3130
310	20 x 15½	Input H.P.	4.88	3.38	2.60	2.20	1.79	.99	.68	.37
		Output H.P.	3.08	2.06	1.55	1.28	1.02	.53	.35	.18
		Output Torque	34600	34600	34600	34600	34600	34600	34600	34600
		Output R.P.M.	5.65	3.71	2.81	2.32	1.87	.968	.645	.318
		Overhung Load	3230	3230	3230	3230	3230	3230	3230	3230
380	20 x 19	Input H.P.	4.18	2.95	2.60	1.93	1.57	.88	.60	.32
		Output H.P.	2.55	1.70	1.29	1.06	.85	.44	.29	.15
		Output Torque	35200	35200	35200	35200	35200	35200	35200	35200
		Output R.P.M.	4.61	3.03	2.29	1.89	1.53	.789	.526	.263
		Overhung Load	3130	3130	3130	3130	3130	3130	3130	3130
500	20 x 25	Input H.P.	3.30	2.32	1.80	1.53	1.24	.70	.48	.26
		Output H.P.	1.89	1.26	.95	.78	.63	.33	.22	.11
		Output Torque	34100	34100	34100	34100	34100	34100	34100	34100
		Output R.P.M.	3.50	2.30	1.74	1.44	1.16	.600	.400	.200
		Overhung Load	3310	3310	3310	3310	3310	3310	3310	3310
600	20 x 30	Input H.P.	2.80	2.03	1.54	1.30	1.07	.60	.41	.23
		Output H.P.	1.56	1.04	.79	.64	.52	.27	.18	.09
		Output Torque	33900	33900	33900	33900	33900	33900	33900	33900
		Output R.P.M.	2.92	1.92	1.45	1.20	.967	.500	.333	.167
		Overhung Load	3340	3340	3340	3340	3340	3340	3340	3340
800	20 x 40	Input H.P.	2.58	1.85	1.44	1.23	.98	.57	.40	.22
		Output H.P.	1.25	.84	.63	.52	.42	.22	.14	.07
		Output Torque	36300	36300	36300	36300	36300	36300	36300	36300
		Output R.P.M.	2.19	1.44	1.09	.900	.725	.375	.250	.125
		Overhung Load	2950	2950	2950	2950	2950	2950	2950	2950
1000	40 x 25	Input H.P.	2.02	1.42	1.11	.97	.80	.47	.31	.17
		Output H.P.	.95	.63	.48	.40	.33	.17	.11	.05
		Output Torque	34100	34100	34100	34100	34100	34100	34100	34100
		Output R.P.M.	1.75	1.15	.870	.720	.580	.300	.200	.100
		Overhung Load	3310	3310	3310	3310	3310	3310	3310	3310
1200	40 x 30	Input H.P.	1.72	1.56	.95	.82	.68	.40	.26	.15
		Output H.P.	.79	.68	.39	.32	.27	.14	.09	.05
		Output Torque	33900	33900	33900	33900	33900	33900	33900	33900
		Output R.P.M.	1.46	.958	.725	.600	.483	.250	.167	.083
		Overhung Load	3340	3340	3340	3340	3340	3340	3340	3340
1600	40 x 40	Input H.P.	1.62	1.12	.88	.78	.66	.39	.25	.14
		Output H.P.	.63	.42	.32	.26	.22	.12	.07	.04
		Output Torque	36300	36300	36300	36300	36300	36300	36300	36300
		Output R.P.M.	1.09	.719	.544	.450	.363	.188	.125	.063
		Overhung Load	2950	2950	2950	2950	2950	2950	2950	2950
2040	40 x 51	Input H.P.	1.20	.86	.68	.58	.49	.29	.19	.11
		Output H.P.	.44	.29	.22	.18	.15	.08	.05	.02
		Output Torque	32100	32100	32100	32100	32100	32100	32100	32100
		Output R.P.M.	.858	.564	.426	.353	.284	.147	.098	.049
		Overhung Load	3590	3590	3590	3590	3590	3590	3590	3590
2400	60 x 40	Input H.P.	1.29	.93	.73	.63	.52	.31	.22	.12
		Output H.P.	.42	.28	.21	.17	.14	.07	.05	.02
		Output Torque	36300	36300	36300	36300	36300	36300	36300	36300
		Output R.P.M.	.729	.479	.363	.300	.242	.125	.083	.042
		Overhung Load	2950	2950	2950	2950	2950	2950	2950	2950
3060	60 x 51	Input H.P.	.97	.70	.54	.48	.39	.24	.16	.09
		Output H.P.	.29	.19	.14	.12	.10	.05	.03	.02
		Output Torque	32100	32100	32100	32100	32100	32100	32100	32100
		Output R.P.M.	.572	.376	.284	.235	.190	.098	.065	.033
		Overhung Load	3590	3590	3590	3590	3590	3590	3590	3590
3660	60 x 61	Input H.P.	.84	.61	.48	.42	.34	.21	.15	.06
		Output H.P.	.23	.15	.12	.10	.08	.04	.03	.01
		Output Torque	30900	30900	30900	30900	30900	30900	30900	30900
		Output R.P.M.	.478	.314	.238	.197	.158	.082	.055	.027
		Overhung Load	3760	3260	3260	3260	3260	3260	3260	3260



Dimensions for Type EE Basic Unit

Dimensions subject to change. Use
certified prints only for construction.



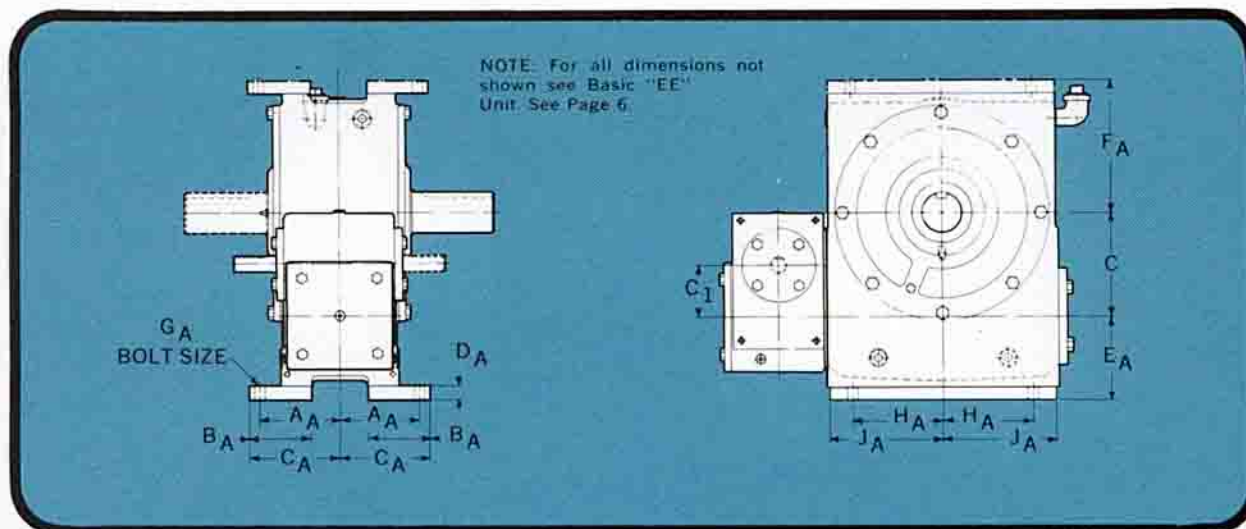
Unit Size	A	B	C +.003 -.000	C ₁ +.003 -.000	D	E	F	G	H	J	K +.000 -.002	L +.00 -.03	M	N +.00 -.03	O	P	Q	R	R ₁	S
25-30	5.75	6.38	3.000	2.500	1.81	3.62	2.12	1.81	5.00	6.06	3.500	2.62	1.81	3.62	9.25	13.19	2.75	3.75	2.88	5.12
25-35	6.25	6.50	3.500	2.500	1.81	3.62	2.12	1.81	5.00	6.44	3.500	2.62	1.94	4.12	10.25	13.94	3.00	4.12	2.88	5.12
25-40	7.25	7.00	4.000	2.500	1.81	3.62	2.12	1.81	5.75	6.94	3.500	3.12	2.06	4.75	11.88	15.06	3.56	4.62	2.88	5.12
25-50	7.50	7.00	5.000	2.500	1.81	3.62	2.12	1.81	5.75	7.94	3.500	3.38	2.19	5.75	14.12	17.06	4.38	5.62	2.88	5.12
30-60	10.00	9.50	6.000	3.000	2.00	3.31	2.31	2.19	7.75	10.25	4.000	4.25	2.88	6.75	17.00	21.00	5.62	6.88	3.75	6.62
35-70	11.00	10.25	7.000	3.500	2.00	3.31	2.31	2.19	8.00	11.25	4.000	4.50	3.00	8.50	20.00	23.06	6.50	7.88	4.12	7.00

Unit Size	T	U	V	W ₁	W ₂	X Tap	Y Tap	Z	H. S. Worm Shaft		Gear Shaft	
									Dia. +.0000 -.0005	Key Size	Dia.	Key Size
25-30	4.31	2.50	5.12	1.75	2.75	3/8-16 x 3/4	3/8-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/2	1.250 +.0000 -.0005	1/4 x 1/4 x 2
25-35	4.69	2.50	5.12	1.75	2.88	3/8-13 x 1	3/8-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/2	1.500 +.000 -.001	3/8 x 3/8 x 2
25-40	5.31	2.50	5.12	1.75	3.62	3/8-13 x 1	3/8-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/2	1.750 +.000 -.001	3/8 x 3/8 x 2 1/4
25-50	6.31	2.50	5.12	1.75	3.69	3/8-13 x 1	3/8-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/2	2.000 +.000 -.001	1/2 x 1/2 x 2 1/4
30-60	7.56	2.62	6.62	2.38	5.25	3/8-11 x 1 1/4	3/8-18 x 3/8	2.50	1.000	3/4 x 3/4 x 1 1/2	2.500 +.000 -.001	3/8 x 3/8 x 3 3/4
35-70	8.56	2.62	7.62	2.38	5.88	3/8-11 x 1 1/4	3/8-18 x 3/8	2.50	1.000	3/4 x 3/4 x 1 1/2	2.750 +.000 -.001	3/8 x 3/8 x 4

NOTE: Worm & gear shaft keys are
furnished with unit.

Dimensions/Type EE

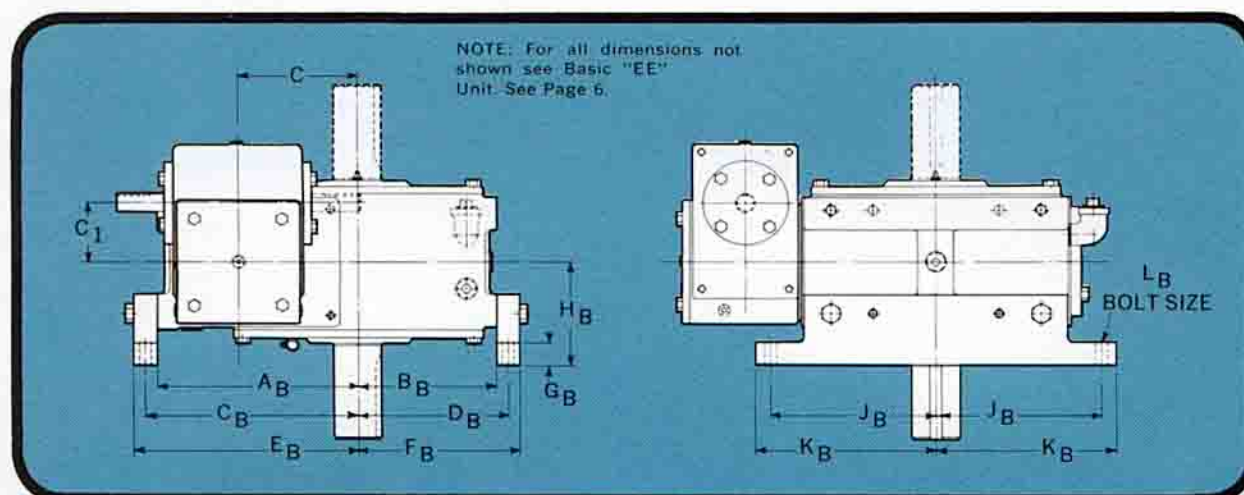
Horizontal Mounting Arrangements



Unit Size	A _A	B _A	C _A	D _A	E _A +.00 -.03	F _A +.00 -.03	G _A Bolt Size	H _A	J _A
25-30	3.25	2.50	3.75	.50	3.12	4.12	3/8	2.75	3.62
25-35	3.25	2.50	3.75	.62	3.25	4.75	1/2	3.00	4.00
25-40	3.75	3.00	4.38	.62	3.75	5.38	1/2	3.56	4.50
25-50	3.88	3.00	4.38	.62	4.00	6.38	1/2	4.38	5.50
30-60	5.25	4.00	6.00	.75	5.00	7.50	3/4	5.62	6.75
35-70	5.75	4.50	6.50	.75	5.25	9.25	3/4	6.50	7.75

Dimensions/Type EE

Vertical Mounting Arrangements

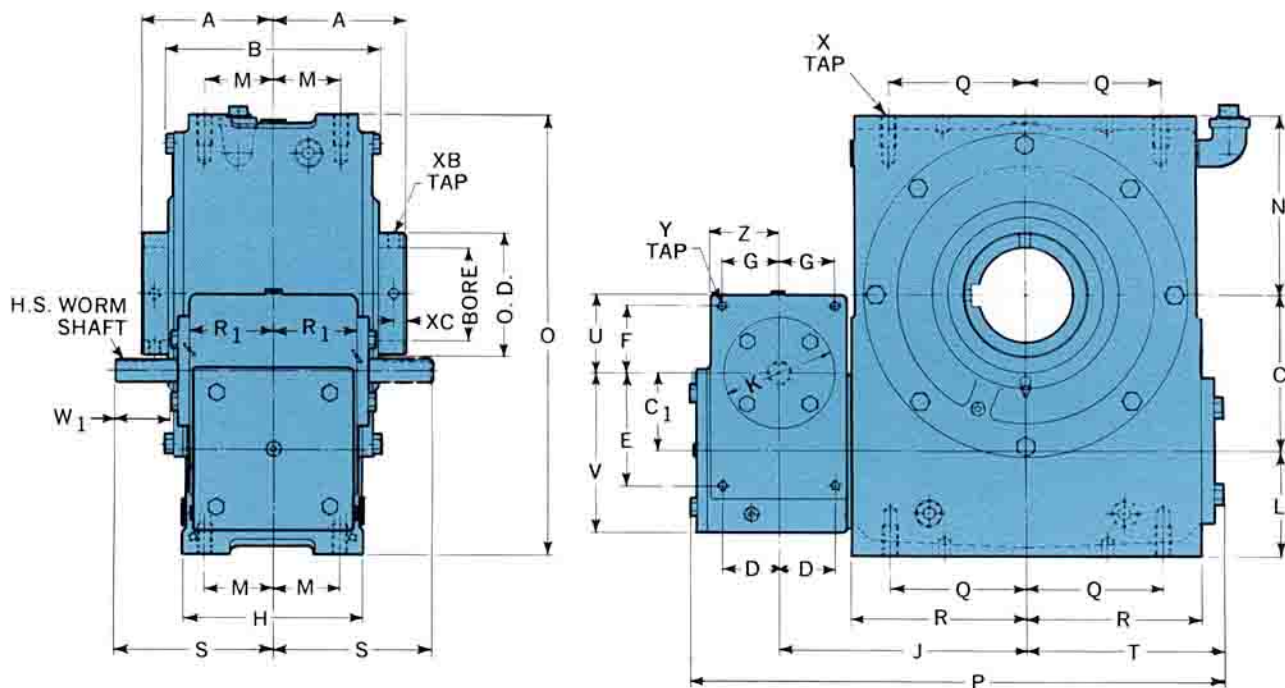


Unit Size	A _B	B _B	C _B	D _B	E _B	F _B	G _B	H _B +.00 -.03	J _B	K _B	L _B Bolt Size
25-30	5.62	3.62	6.00	4.00	6.38	4.38	.62	3.75	4.38	4.88	3/8
25-35	6.12	4.12	6.62	4.62	7.12	5.12	.75	3.75	5.00	5.50	1/2
25-40	7.12	4.75	7.62	5.25	8.12	5.75	1.00	4.38	5.50	6.00	1/2
25-50	8.38	5.75	8.88	6.25	9.38	6.75	1.00	4.38	6.88	7.50	1/2
30-60	10.25	6.75	10.88	7.38	11.50	8.00	1.25	6.00	8.50	9.25	3/4
35-70	11.50	8.50	12.12	9.12	12.75	9.75	1.25	6.50	9.50	10.25	3/4



Dimensions for Type EES Basic Unit

NOTE: Worm & gear shaft keys are furnished with unit. See dimension sheet DSE-4 for stock bushings.

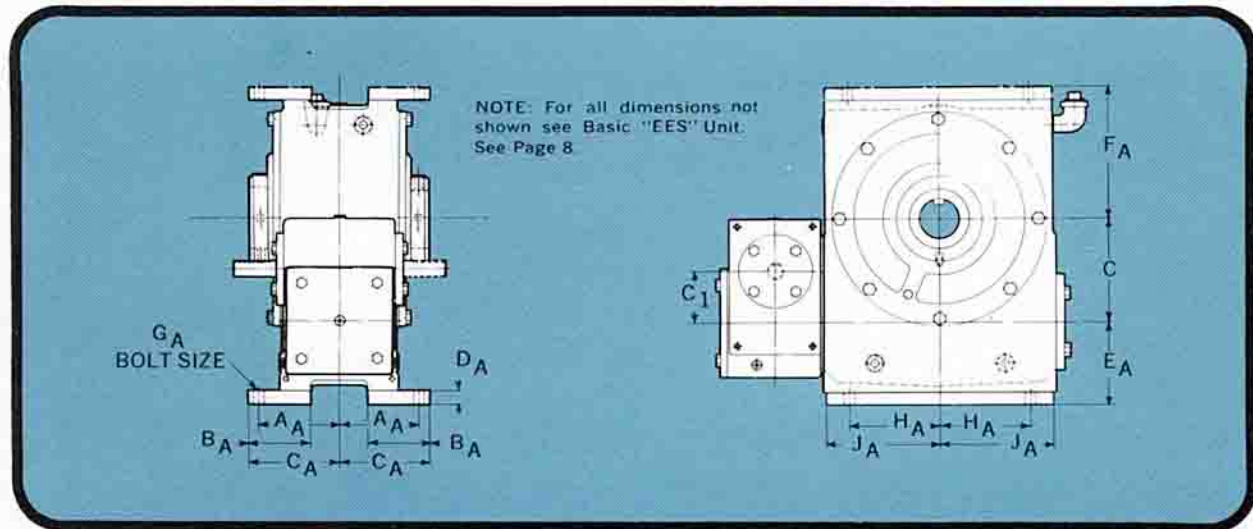


Unit Size	A	B	C +.003 -.000	C ₁ +.003 -.000	D	E	F	G	H	J	K +.000 -.002	L +.00 -.03	M	N +.00 -.03	O	P	Q	R	R ₁	S
25-30	3.38	6.38	3.000	2.500	1.81	3.62	2.12	1.81	5.00	6.06	3.500	2.62	1.81	3.62	9.25	13.19	2.75	3.75	2.88	5.12
25-35	3.75	6.50	3.500	2.500	1.81	3.62	2.12	1.81	5.00	6.44	3.500	2.62	1.94	4.12	10.25	13.94	3.00	4.12	2.88	5.12
25-40	4.00	7.00	4.000	2.500	1.81	3.62	2.12	1.81	5.75	6.94	3.500	3.12	2.06	4.75	11.88	15.06	3.56	4.62	2.88	5.12
25-50	4.25	7.00	5.000	2.500	1.81	3.62	2.12	1.81	5.75	7.94	3.500	3.38	2.19	5.75	14.12	17.06	4.38	5.62	2.88	5.12
30-60	5.75	9.50	6.000	3.000	2.00	3.31	2.31	2.19	7.75	10.25	4.000	4.25	2.88	6.75	17.00	21.00	5.62	6.88	3.75	6.62
35-70	6.00	10.25	7.000	3.500	2.00	3.31	2.31	2.19	8.00	11.25	4.000	4.50	3.00	8.50	20.00	23.06	6.50	7.88	4.12	7.00

Unit Size	T	U	V	W ₁	X Tap	Y Tap	Z	H. S. Worm Shaft		XB Tap	XC	Hollow Gear Shaft		
								Dia. +.0000 -.0005	Key Size			Bore +.002 -.000	O.D.	Shaft Key Seat Required
25-30	4.31	2.50	5.12	1.75	3/16-18 x 3/4	3/16-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/8	3/16-18	.31	1.750	2.50	3/8 x 3/16 x 1 1/8
25-35	4.69	2.50	5.12	1.75	1/2-13 x 1	3/16-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/8	3/8-16	.38	2.250	3.25	1/2 x 1/4 x 2
25-40	5.31	2.50	5.12	1.75	1/2-13 x 1	3/16-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/8	3/8-16	.38	2.500	3.50	3/8 x 3/16 x 2 1/4
25-50	6.31	2.50	5.12	1.75	1/2-13 x 1	3/16-18 x 3/8	2.19	.750	3/16 x 3/16 x 1 1/8	3/8-16	.38	3.000	4.25	3/4 x 3/8 x 2 1/4
30-60	7.56	2.62	6.62	2.38	3/8-11 x 1 1/4	3/16-18 x 3/8	2.50	1.000	1/4 x 1/4 x 1 1/8	1/2-13	.50	3.500	5.00	3/8 x 3/16 x 3 1/2
35-70	8.56	2.62	7.62	2.38	3/8-11 x 1 1/4	3/16-18 x 3/8	2.50	1.000	1/4 x 1/4 x 1 1/8	1/2-13	.50	4.000	5.75	1" x 3/16 x 4

Dimensions/Type EES

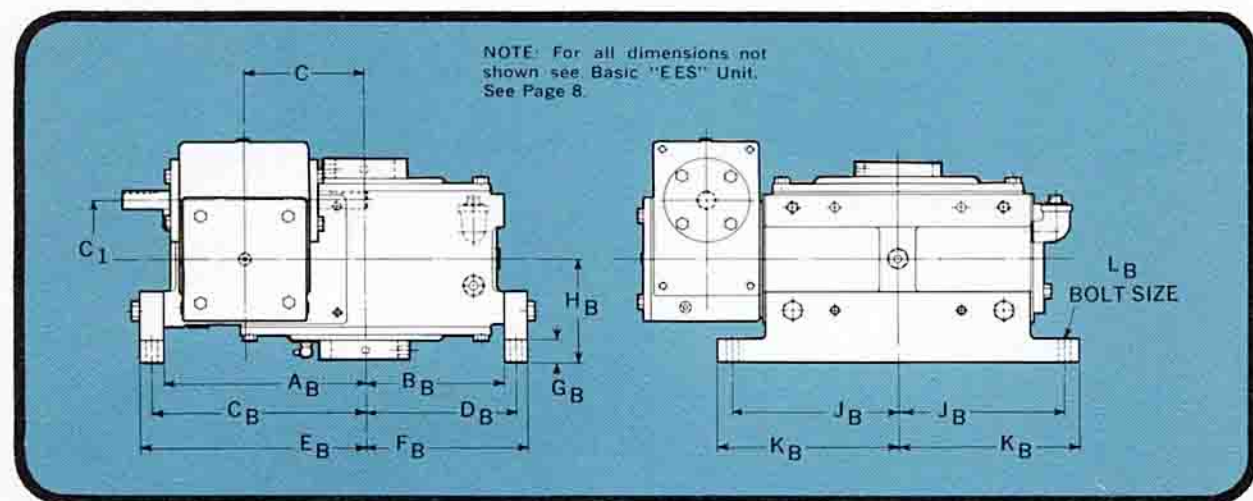
Horizontal Mounting Arrangements



Unit Size	A _A	B _A	C _A	D _A	E _A + .00 - .03	F _A + .00 - .03	G _A Bolt Size	H _A	J _A
25-30	3.25	2.50	3.75	.50	3.12	4.12	3/8	2.75	3.62
25-35	3.25	2.50	3.75	.62	3.25	4.75	1/2	3.00	4.00
25-40	3.75	3.00	4.38	.62	3.75	5.38	1/2	3.56	4.50
25-50	3.88	3.00	4.38	.62	4.00	6.38	1/2	4.38	5.50
30-60	5.25	4.00	6.00	.75	5.00	7.50	3/4	5.62	6.75
35-70	5.75	4.50	6.50	.75	5.25	9.25	3/4	6.50	7.75

Dimensions/Type EES

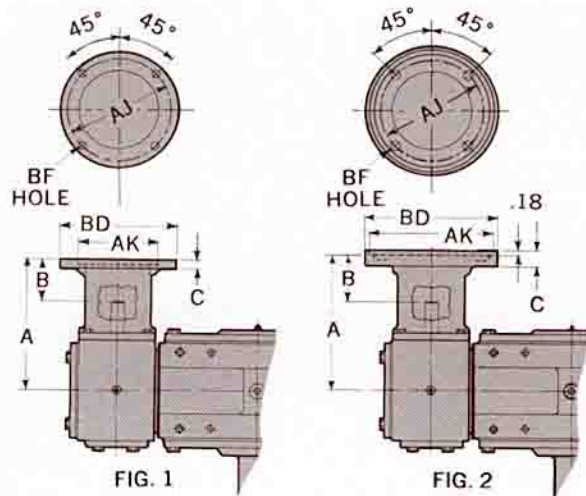
Vertical Mounting Arrangements



Unit Size	A _B	B _B	C _B	D _B	E _B	F _B	G _B	H _B + .00 - .03	J _B	K _B	L _B Bolt Size
25-30	5.62	3.62	6.00	4.00	6.38	4.38	.62	3.75	4.38	4.88	3/8
25-35	6.12	4.12	6.62	4.62	7.12	5.12	.75	3.75	5.00	5.50	1/2
25-40	7.12	4.75	7.62	5.25	8.12	5.75	1.00	4.38	5.50	6.00	1/2
25-50	8.38	5.75	8.88	6.25	9.38	6.75	1.00	4.38	6.88	7.50	1/2
30-60	10.25	6.75	10.88	7.38	11.50	8.00	1.25	6.00	8.50	9.25	3/4
35-70	11.50	8.50	12.12	9.12	12.75	9.75	1.25	6.50	9.50	10.25	3/4

Dimensions/Type EE & EES

Motor Adaptor

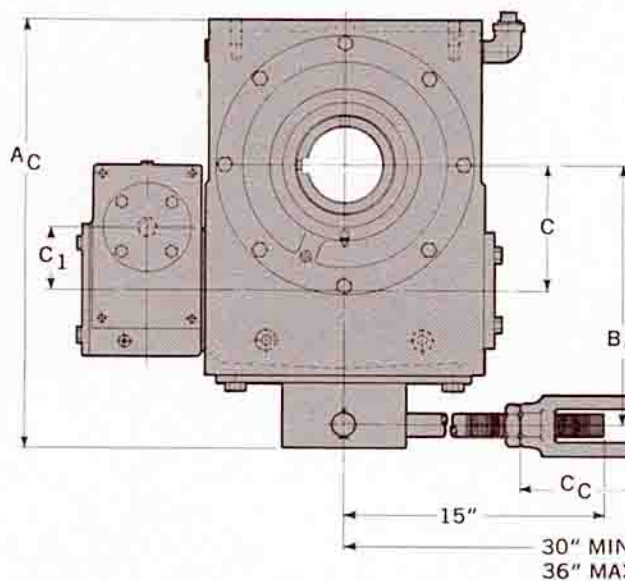


Unit Size	Motor Frame NEMA C Mounting Face		Mounting Face				A	B	C	Cpigs.
			AJ	AK + .002 - .008	BD	BF				Max. O.D.
	Fig. 1	Fig. 2								
25-30 THRU 25-50	56C		5.88	4.501	6.62	13/32	7.50	2.38	.50	3.25
	143TC									
	145TC									
30-60	56C		5.88	4.501	6.62	13/32	8.97	2.34	.50	4.00
	143TC									
	145TC									
		182TC	7.25	8.501	9.00	17/32	9.81	3.19	.94	4.50
		184TC								
		213TC								
		215TC								
35-70	56C		5.88	4.501	6.62	13/32	9.34	2.34	.50	4.00
	143TC									
	145TC									
		182TC	7.25	8.501	9.00	17/32	10.19	3.19	.94	4.50
		184TC								
		213TC								
		215TC								

NOTE: For dimensions not shown see Basic "EE" or "EES" Unit.
See pages 6 and 8.

Dimensions Type EES

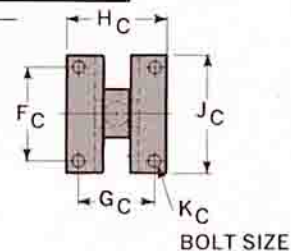
Torque Arm Arrangement



Unit Size	A _C	B _C	C _C	D _C Dia.	E _C	F _C	G _C	H _C	J _C	K _C Bolt
25-30	12.25	7.62	8.75	1.00	2.00	3.75	3.12	4.12	4.75	1/2
25-35	13.25	8.12	8.75	1.00	2.00	3.75	3.12	4.12	4.75	1/2
25-40	14.88	9.12	8.75	1.00	2.00	3.75	3.12	4.12	4.75	1/2
25-50	17.12	10.38	8.75	1.00	2.00	3.75	3.12	4.12	4.75	1/2
30-60	20.75	12.75	9.50	1.25	2.50	4.75	4.12	5.38	6.00	3/4
35-70	23.75	14.00	9.50	1.25	2.50	4.75	4.12	5.38	6.00	3/4

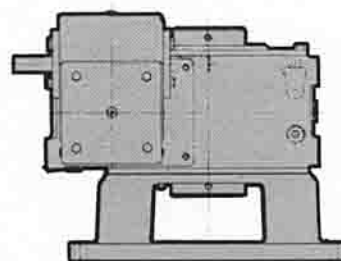
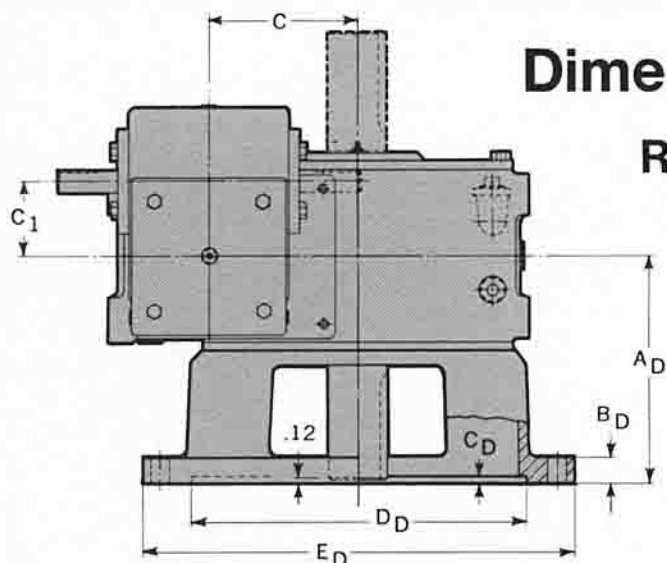
NOTE: For all dimensions not shown see Basic "EES" Unit.
See page 8.

5/16" FOR SIZES 25-30 TO & INCL.
25-50
3/8" FOR SIZES 30-60
35-70



Dimensions/Type EE & EES

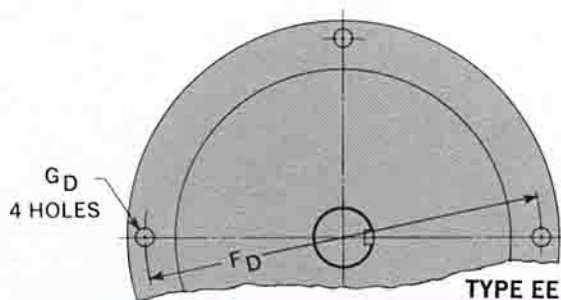
Ring Base Mount



TYPE EES

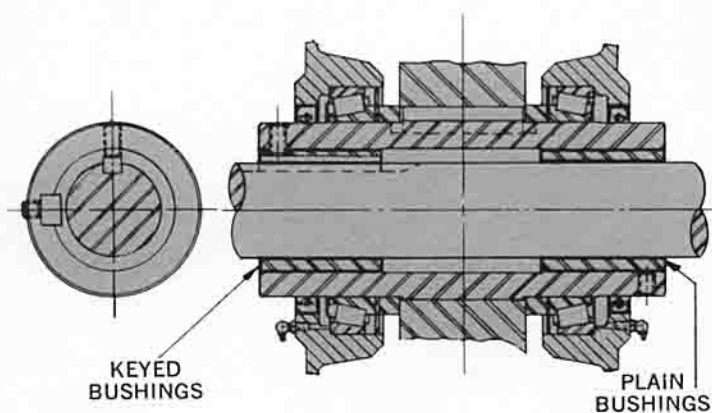
Unit Size	A _D + .00 - .01	H _D	C _D	D _D + .002 - .000	E _D	F _D	G _D Hole
25-30	5.88	.62	.19	7.251	10.00	9.00	17/32
25-35	6.38	.62	.19	8.251	11.00	10.00	17/32
25-40	7.38	.75	.25	9.501	12.75	11.62	21/32
25-50	7.62	.88	.25	11.251	14.50	13.38	21/32
30-60	10.12	1.00	.31	13.501	17.50	16.00	13/16
35-70	11.12	1.12	.31	16.001	20.25	18.62	13/16

NOTE: For all dimensions not shown see Basic "EE" and/or "EES" Unit. See Pages 6 and 8.



TYPE EE

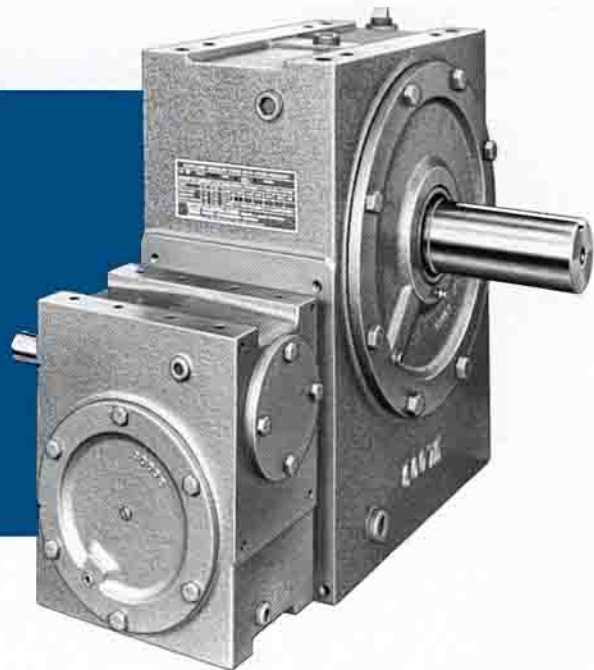
Bushings for Type EES Units



Unit Size	Gear Shaft Bore (No Bushings Required)	Stocked Bushings	Shaft Key(s) Required
		Bore*	
25-30	1.750	— 1.375 1.250, 1.1875, 1.125	3/8 x 3/16 x 1 1/2 3/16 x 3/32 x 1 1/2 3/4 x 3/4 x 1 1/2
25-35	2.250	— 1.875 1.750, 1.6875, 1.625, 1.500, 1.4375 1.375	1/2 x 1/4 x 2 3/8 x 3/4 x 2 3/4 x 3/4 x 2 3/4 x 3/32 x 2
25-40	2.500	— 2.125, 2.000, 1.9375, 1.875 1.750, 1.6875, 1.625	3/4 x 3/4 x 2 1/4 1/2 x 3/4 x 2 1/4 3/4 x 3/4 x 2 1/4
25-50	3.000	— 2.625, 2.500, 2.4375, 2.375 2.250, 2.1875, 2.125, 2.000	3/4 x 3/4 x 2 1/4 3/4 x 3/4 x 2 1/4 1/2 x 3/4 x 2 1/4
30-60	3.500	— 3.000, 2.9375, 2.875 2.750, 2.6875, 2.625, 2.500, 2.4375, 2.375	3/4 x 7/16 x 3 1/2 3/4 x 3/4 x 3 1/2 3/4 x 3/4 x 3 1/2
35-70	4.000	— 3.375 3.250, 3.1875, 3.125, 3.000, 2.9375, 2.875 2.750	1" x 1/2 x 4 3/4 x 7/16 x 4 3/4 x 3/4 x 4 3/4 x 3/4 x 4

Shaft key is furnished. Key may be located at either end of bore.
Set screws are furnished.

*Bore tolerance + .002 — .000.



Cleveland Gear

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Cable "Gearing"
Telex: 980368

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