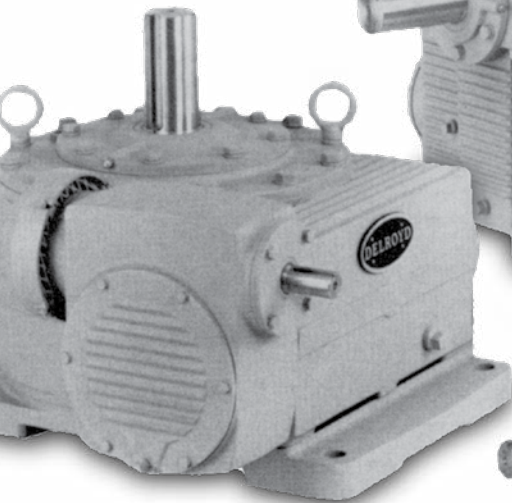
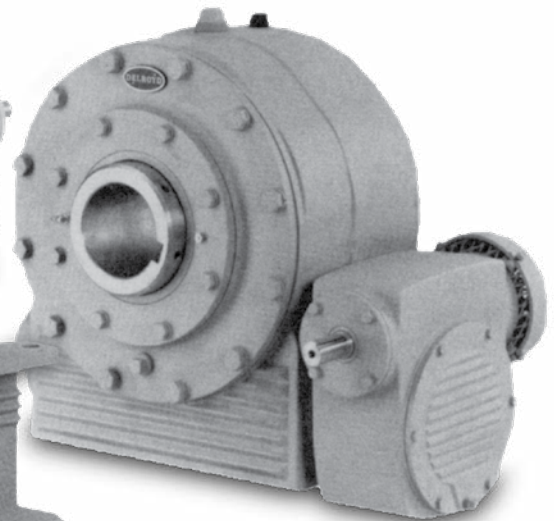
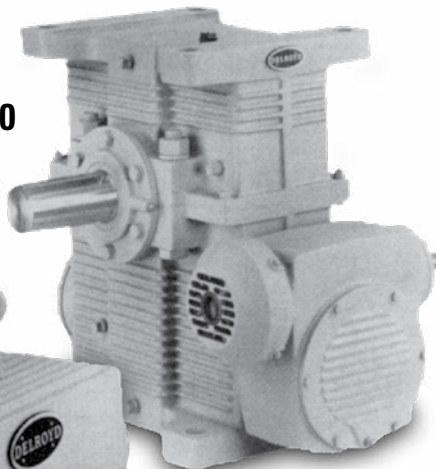


Delroyd Double Worm Speed Reducers

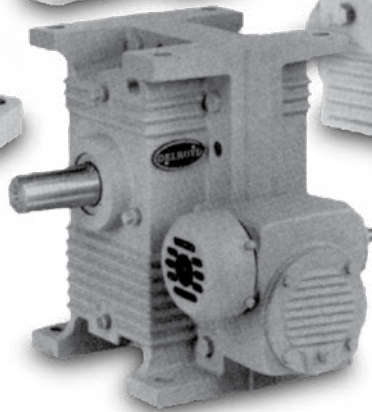
Type DE50-DE140



Type DV35-DV200



Type DSM35-DSM200



Type DE35-DE40

Double Worm
Speed Reducers

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	80.1	80.1	80.1	75.8	75.8	75.8	75.8	75.8	75.2	75.6	75.6	75.6
	Ratio Combinations	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6
		15-1/2	15-1/2	15-1/2	14-2/3	14-2/3	14-2/3	14-2/3	14-2/3	14-2/3	14-3/4	14-3/4	14-3/4
1750	Mech. Input HP	2.32	2.96	4.14	7.62	10.8	14.8	21.7	23.8	34.8	34.8	71.3	92.5
	Out.Torq., in.lbs.	4810	6390	9180	16400	23600	32800	49300	53500	80000	80000	170000	224000
	Therm. Input HP	2.03	2.78	3.10	5.27	7.50	10.1	17.9	17.9	26.2	34.8	62.5	82.5
	Output RPM	21.8	21.8	21.8	23.1	23.1	23.1	23.1	23.1	23.3	23.2	23.2	23.2
	Efficiency%	71.9	74.8	76.9	78.8	80.0	81.2	83.2	82.3	84.9	84.4	87.6	88.9
1450	Mech. Input HP	1.98	2.57	3.79	6.96	10.0	13.5	19.0	21.8	31.7	31.7	65.7	85.4
	Out.Torq., in.lbs.	4860	6610	10100	18000	26100	35900	51800	59000	88500	88500	187000	246000
	Therm. Input HP	1.78	2.48	2.94	4.85	6.80	9.30	16.9	16.9	24.6	31.7	55.0	75.0
	Output RPM	18.1	18.1	18.1	19.1	19.1	19.1	19.1	19.1	19.3	19.2	19.2	19.2
	Efficiency%	70.5	73.9	76.5	78.4	79.2	80.7	82.9	82.1	85.4	85.0	86.6	87.7
1150	Mech. Input HP	1.62	2.14	3.37	5.76	8.68	12.3	16.1	19.5	28.3	28.3	59.2	77.5
	Out.Torq., in.lbs.	4980	6800	11200	18600	28200	40000	54500	66000	97500	97500	210000	278000
	Therm. Input HP	1.50	2.04	2.70	4.30	6.02	8.25	14.2	15.2	22.6	28.3	50.0	64.5
	Output RPM	14.4	14.4	14.4	15.2	15.2	15.2	15.2	15.2	15.3	15.2	15.2	15.2
	Efficiency%	69.9	72.4	75.7	77.6	78.1	78.3	81.3	81.5	83.6	83.2	85.6	86.6
865	Mech. Input HP	1.27	1.67	2.81	4.49	6.91	9.72	12.7	16.9	25.2	25.2	51.3	67.0
	Out.Torq., in.lbs.	5090	6940	12200	19200	29200	41700	57100	75400	113000	113000	238000	313000
	Therm. Input HP	1.22	1.62	2.39	3.74	5.28	7.19	11.4	13.3	20.0	23.6	41.8	52.6
	Output RPM	10.8	10.8	10.8	11.4	11.4	11.4	11.4	11.4	11.5	11.4	11.4	11.4
	Efficiency %	68.7	71.2	74.4	77.2	76.6	77.7	81.6	80.8	81.8	81.4	84.2	84.8
575	Mech. Input HP	0.887	1.16	1.96	3.14	4.88	6.89	9.43	12.0	18.5	21.0	42.9	55.5
	Out.Torq., in.lbs.	5210	7080	12600	19800	30300	43500	59900	79500	130000	140000	323000	381000
	Therm. Input HP	0.871	1.14	1.89	2.92	4.27	5.58	8.19	10.6	16.0	17.8	31.6	39.7
	Output RPM	7.18	7.18	7.18	7.59	7.59	7.59	7.59	7.59	7.65	7.61	7.61	7.61
	Efficiency%	66.9	69.6	73.0	75.8	74.9	76.0	76.5	79.4	85.1	80.4	83.0	82.8
300	Mech. Input HP	0.489	0.641	1.08	1.72	2.72	3.83	5.27	6.91	12.3	14.0	27.2	39.8
	Out.Torq., in.lbs.	5320	7240	12900	20400	31400	45300	62700	83600	138000	173000	339000	502000
	Therm. Input HP	0.476	0.620	1.04	1.67	2.67	3.74	4.67	6.87	10.6	11.6	20.6	26.0
	Output RPM	3.75	3.75	3.75	3.96	3.96	3.96	3.96	3.96	3.99	3.97	3.97	3.97
	Efficiency %	64.7	67.1	70.8	74.4	72.4	74.6	74.6	76.0	70.6	77.8	78.5	79.5

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	93.4	93.4	93.4	94.2	94.2	94.2	94.2	94.2	95.1	95.5	95.5	95.5
	Ratio Combinations	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-3/4	9-3/4	9-3/4	9-3/4
		9-2/3	9-2/3	9-2/3	9-3/4	9-3/4	9-3/4	9-3/4	9-3/4	9-3/4	9-4/5	9-4/5	9-4/5
1750	Mech. Input HP	1.74	1.74	2.88	5.39	7.64	10.1	16.6	16.6	24.0	24.0	48.7	65.1
	Out.Torq., in.lbs.	4270	4430	7160	14400	20500	27200	45800	45800	72100	72100	146000	195000
	Therm. Input HP	1.82	2.16	2.16	3.86	5.50	7.20	12.5	12.5	18.0	24.0	45.5	60.3
	Output RPM	18.7	18.7	18.7	18.6	18.6	18.6	18.6	18.6	18.4	18.3	18.3	18.3
	Efficiency%	73.0	75.7	73.9	78.8	79.1	79.4	81.3	81.3	87.7	87.4	87.2	87.1
1450	Mech. Input HP	1.56	1.56	2.61	4.91	7.11	9.37	15.4	15.4	21.9	21.9	44.7	60.2
	Out.Torq., in.lbs.	4630	4780	7950	15600	22700	30300	51300	51300	77600	77600	158000	212000
	Therm. Input HP	1.48	1.93	2.02	3.55	4.98	6.62	11.9	11.9	17.0	21.9	41.8	55.8
	Output RPM	15.5	15.5	15.5	15.4	15.4	15.4	15.4	15.4	15.2	15.2	15.2	15.2
	Efficiency%	73.1	75.4	75.0	77.6	78.0	79.0	81.0	81.0	85.7	85.4	85.2	85.2
1150	Mech. Input HP	1.33	1.34	2.27	4.33	6.42	8.46	13.3	13.9	19.8	19.8	40.1	53.5
	Out.Torq., in.lbs.	4830	5080	8640	17200	25600	34300	55200	57800	87000	87000	174000	235000
	Therm. Input HP	1.28	1.68	1.82	3.15	4.41	5.84	10.7	10.7	15.8	19.8	37.5	49.6
	Output RPM	12.3	12.3	12.3	12.2	12.2	12.2	12.2	12.2	12.1	12.0	12.0	12.0
	Efficiency%	71.0	74.1	74.4	76.9	77.2	78.5	80.3	80.6	84.3	84.0	82.9	83.9
865	Mech. Input HP	1.00	1.08	1.87	3.58	5.50	7.76	10.5	10.8	17.7	17.7	35.1	46.4
	Out.Torq., in.lbs.	4890	5340	9330	18600	28700	40900	56800	58900	102000	102000	197000	262000
	Therm. Input HP	0.986	1.32	1.59	2.72	3.84	5.10	9.35	9.35	15.1	17.7	33.1	43.3
	Output RPM	9.26	9.26	9.26	9.18	9.18	9.18	9.18	9.18	9.10	9.05	9.05	9.05
	Efficiency %	71.7	72.6	73.3	75.9	75.9	76.8	78.8	79.5	83.2	82.8	80.7	81.2
575	Mech. Input HP	0.694	0.778	1.36	2.47	3.80	5.46	7.47	9.70	14.2	14.2	29.1	39.1
	Out.Torq., in.lbs.	4960	5650	9980	19000	29300	41900	58300	77600	120000	120000	246000	330000
	Therm. Input HP	0.674	0.897	1.22	2.16	3.07	3.96	7.15	7.45	12.2	13.5	25.4	32.6
	Output RPM	6.15	6.15	6.15	6.10	6.10	6.10	6.10	6.10	6.05	6.02	6.02	6.02
	Efficiency%	69.7	71.0	71.7	74.6	74.6	74.4	75.6	77.4	81.1	80.7	80.8	80.6
300	Mech. Input HP	0.380	0.440	0.781	1.34	2.10	3.01	4.05	5.35	8.79	9.00	19.2	26.4
	Out.Torq., in.lbs.	5020	5940	10700	19300	29900	42900	59900	80000	132000	136000	290000	398000
	Therm. Input HP	0.365	0.483	0.781	1.28	2.00	2.88	3.88	5.15	8.42	8.75	16.6	21.4
	Output RPM	3.21	3.21	3.21	3.18	3.18	3.18	3.18	3.18	3.16	3.14	3.14	3.14
	Efficiency %	67.2	68.8	69.8	72.6	72.0	72.1	74.6	75.6	75.5	75.3	75.3	75.1

Horsepower and Torque Ratings • Double Worm

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.9	105.1	100.8	100.8	100.8
	Ratio Combinations	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6
		20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	19-2/3	19-2/3	19-2/3
1750	Mech. Input HP	1.81	2.32	4.07	6.45	9.63	13.3	17.9	23.8	34.8	34.8	71.3	92.5
	Out.Torq., in.lbs.	4760	6350	11400	18400	28000	39400	54000	71000	107000	107000	219000	284000
	Therm. Input HP	1.72	2.26	3.10	5.27	7.50	10.1	14.8	17.9	26.2	34.8	53.0	78.0
	Output RPM	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.5	16.7	17.4	17.4	17.4
	Efficiency%	69.0	71.6	73.1	74.8	76.2	77.7	79.1	78.2	81.2	84.7	84.6	84.6
1450	Mech. Input HP	1.54	2.00	3.50	5.58	8.36	11.4	15.5	21.1	31.7	31.7	65.7	85.4
	Out.Torq., in.lbs.	4830	6490	11800	19000	28900	40600	56000	75500	116000	116000	241000	313000
	Therm. Input HP	1.25	1.99	2.94	4.85	6.80	9.30	13.5	16.6	24.6	31.7	48.0	70.0
	Output RPM	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.8	14.4	14.4	14.4
	Efficiency%	68.1	70.4	73.0	74.2	75.1	77.4	78.5	77.7	80.1	83.5	83.7	83.6
1150	Mech. Input HP	1.29	1.67	2.90	4.65	6.95	9.66	13.1	17.7	27.2	28.3	59.2	77.5
	Out.Torq., in.lbs.	4930	6640	12100	19700	30000	42400	58300	79500	124000	129000	269000	352000
	Therm. Input HP	1.25	1.65	2.7	4.30	6.02	8.25	11.5	14.2	22.6	28.3	43.0	63.0
	Output RPM	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9	11.4	11.4	11.4
	Efficiency%	65.9	68.4	71.8	73.0	74.4	75.6	76.7	77.4	79.1	82.5	82.2	82.2
865	Mech. Input HP	0.993	1.32	2.30	3.55	5.56	7.67	10.7	14.3	21.9	25.2	49.1	67.0
	Out.Torq., in.lbs.	5010	6790	12400	20400	31200	44300	61000	83500	131000	151000	294000	400000
	Therm. Input HP	0.977	1.30	2.28	3.56	5.28	7.19	9.68	12.0	18.9	23.6	38.0	52.6
	Output RPM	8.17	8.17	8.17	8.17	8.17	8.17	8.17	8.17	8.23	8.58	8.58	8.58
	Efficiency %	65.4	66.8	70.1	74.3	72.7	74.9	73.9	75.7	78.1	81.4	81.6	81.3
575	Mech. Input HP	0.687	0.919	1.60	2.59	3.97	5.44	7.55	10.0	15.8	21.0	36.5	53.9
	Out.Torq., in.lbs.	5060	6930	12800	21000	32600	46100	63500	85000	138000	184000	320000	472000
	Therm. Input HP	0.681	0.905	1.59	2.59	3.88	5.32	7.32	9.45	14.5	17.8	31.6	39.7
	Output RPM	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.47	5.70	5.70	5.70
	Efficiency%	63.4	65.0	68.8	69.9	70.5	73.1	72.5	73.2	75.8	79.3	79.4	79.2
300	Mech. Input HP	0.381	0.511	0.888	1.45	2.17	3.06	4.34	5.63	8.40	14.0	20.7	30.7
	Out.Torq., in.lbs.	5160	7080	13100	21700	33100	48100	66600	88600	141000	235000	346000	516000
	Therm. Input HP	0.372	0.495	0.86	1.41	2.16	2.96	4.27	5.62	8.28	11.5	19.2	26.0
	Output RPM	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.86	2.98	2.98	2.98
	Efficiency %	60.9	62.3	66.4	67.3	68.3	70.5	69.0	70.7	76.0	79.2	79.2	79.2

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	126.6	126.6	126.6	126.6	126.6	126.6	126.6	126.6	125.5	125.5	125.5	125.5
	Ratio Combinations	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6
		24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2
1750	Mech. Input HP	1.58	1.96	3.46	5.43	8.16	11.4	15.4	19.3	31.4	34.8	62.9	88.3
	Out.Torq., in.lbs.	4740	6180	11300	18200	27800	39400	53600	68000	112000	128000	231000	324000
	Therm. Input HP	1.57	1.96	3.10	5.27	7.50	10.1	13.3	16.3	26.2	34.8	48.0	65.0
	Output RPM	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.9	13.9	13.9	13.9
	Efficiency%	65.8	69.0	71.4	73.5	74.7	75.8	76.3	77.3	78.9	81.4	81.3	81.3
1450	Mech. Input HP	1.36	1.69	2.99	4.70	7.12	9.75	13.5	17.7	27.9	31.7	59.3	84.0
	Out.Torq., in.lbs.	4820	6310	11600	18700	28800	40600	56600	74000	125000	135000	252000	357000
	Therm. Input HP	1.35	1.66	2.94	4.70	6.80	9.30	12.0	14.8	24.0	31.7	43.0	60.0
	Output RPM	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.4	11.5	11.5	11.5	11.5
	Efficiency%	64.7	68.0	70.3	72.3	73.5	74.1	74.8	76.0	78.2	78.1	77.9	77.8
1150	Mech. Input HP	1.12	1.39	2.49	3.92	5.94	8.17	11.3	15.0	23.6	28.3	52.0	74.1
	Out.Torq., in.lbs.	4940	6450	11900	19300	29800	42000	58000	77500	125000	150000	275000	393000
	Therm. Input HP	1.11	1.39	2.47	3.89	5.80	7.94	10.2	12.6	20.4	28.3	38.0	55.0
	Output RPM	9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.16	9.16	9.16	9.16
	Efficiency%	63.6	66.7	68.9	70.8	72.3	74.1	74.0	74.5	77.0	77.1	77.0	77.0
865	Mech. Input HP	0.874	1.10	1.95	3.11	4.65	6.53	9.06	12.1	19.5	25.2	43.8	62.9
	Out.Torq., in.lbs.	5030	6580	12200	19800	30400	43700	60400	81500	133000	172000	299000	430000
	Therm. Input HP	0.868	1.09	1.96	3.07	4.60	6.42	8.42	10.6	17.6	25.2	33.0	51.0
	Output RPM	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.83	6.89	6.89	6.89	6.89
	Efficiency %	62.4	65.1	67.9	69.2	70.9	72.6	72.3	73.0	74.6	74.6	74.7	74.7
575	Mech. Input HP	0.614	0.764	1.37	2.18	3.29	4.65	6.50	8.61	14.0	19.8	32.6	47.2
	Out.Torq., in.lbs.	5140	6720	12500	20500	31600	45500	62800	85000	140000	197000	325000	471000
	Therm. Input HP	0.609	0.757	1.37	2.16	3.24	4.58	6.29	8.07	13.3	19.6	30.0	45.0
	Output RPM	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.58	4.58	4.58	4.58
	Efficiency%	60.4	63.4	65.8	67.7	69.2	70.5	69.6	71.1	72.7	72.3	72.5	72.5
300	Mech. Input HP	0.341	0.421	0.762	1.21	1.84	2.61	3.69	4.79	7.70	11.4	19.2	27.8
	Out.Torq., in.lbs.	5240	6850	12800	21100	32500	46700	64800	86300	142000	210000	352000	514000
	Therm. Input HP	0.334	0.411	0.748	1.18	1.81	2.57	3.63	4.77	7.70	10.7	17.9	26.0
	Output RPM	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.37	2.39	2.39	2.39	2.39
	Efficiency %	57.8	61.2	63.3	65.0	66.3	67.3	66.0	67.7	69.9	70.2	69.7	70.0

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	149.8	149.8	149.8	141.8	141.8	141.8	141.8	141.8	143.0	143.8	143.8	143.8
	Ratio Combinations	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-3/4	9-3/4	9-3/4	9-3/4
		15-1/2	15-1/2	15-1/2	14-2/3	14-2/3	14-2/3	14-2/3	14-2/3	14-2/3	14-3/4	14-3/4	14-3/4
1750	Mech. Input HP	1.44	1.74	2.88	4.93	7.60	10.3	13.9	16.6	24.0	24.0	48.7	65.1
	Out.Torq., in.lbs.	5060	6570	11400	19000	29200	41200	56500	66900	99200	99300	202000	270000
	Therm. Input HP	1.33	1.78	2.16	3.86	5.50	7.20	12.3	12.5	18.0	24.0	45.5	60.3
	Output RPM	11.7	11.7	11.7	12.3	12.3	12.3	12.3	12.3	12.2	12.2	12.2	12.2
	Efficiency%	65.1	70.0	73.4	75.5	75.2	78.3	79.5	78.9	80.3	79.9	80.1	80.1
1450	Mech. Input HP	1.19	1.56	2.57	4.21	6.47	9.03	11.9	15.4	21.9	21.9	44.7	60.2
	Out.Torq., in.lbs.	5130	6860	12300	19300	29800	42500	58000	74000	108000	108000	222000	299000
	Therm. Input HP	1.14	1.52	2.02	3.55	4.98	6.62	10.6	11.9	17.0	21.9	41.8	55.8
	Output RPM	9.68	9.68	9.68	10.2	10.2	10.2	10.2	10.2	10.1	10.1	10.1	10.1
	Efficiency%	66.1	68.5	73.5	74.5	74.7	76.4	78.9	78.0	79.3	78.9	79.5	79.5
1150	Mech. Input HP	0.972	1.27	2.11	3.43	5.32	7.43	9.76	13.2	19.8	19.8	40.1	53.5
	Out.Torq., in.lbs.	5190	7060	12500	19700	30500	43600	59500	78900	123000	123000	250000	333000
	Therm. Input HP	0.950	1.25	1.82	3.15	4.41	5.84	8.73	10.7	15.9	19.8	37.5	49.6
	Output RPM	7.67	7.67	7.67	8.11	8.11	8.11	8.11	8.11	8.04	8.00	8.00	8.00
	Efficiency%	65.0	67.7	72.0	73.8	73.8	75.5	78.5	77.0	79.3	78.8	79.1	79.0
865	Mech. Input HP	0.755	0.987	1.65	2.67	4.13	5.78	7.65	10.5	16.4	17.7	35.1	46.4
	Out.Torq., in.lbs.	5250	7150	12700	20000	30800	44200	61000	81200	133000	143000	284000	376000
	Therm. Input HP	0.745	0.967	1.59	2.64	3.84	5.10	6.95	9.35	15.1	17.7	33.1	43.3
	Output RPM	5.77	5.77	5.77	6.10	6.10	6.10	6.10	6.10	6.05	6.01	6.01	6.01
	Efficiency %	70.5	66.3	63.7	72.6	72.2	74.0	77.3	74.6	77.6	77.1	77.2	77.3
575	Mech. Input HP	0.524	0.683	1.14	1.85	2.88	4.04	5.35	7.43	11.6	17.1	28.6	39.1
	Out.Torq., in.lbs.	5320	7240	12900	20400	31400	45200	62600	83500	138000	168000	339000	464000
	Therm. Input HP	0.511	0.661	1.10	1.80	2.83	3.95	4.74	7.40	11.4	13.5	25.4	32.6
	Output RPM	3.84	3.84	3.84	4.06	4.06	4.06	4.06	4.06	4.02	4.00	4.00	4.00
	Efficiency%	61.7	64.5	68.7	70.8	70.0	72.0	75.3	72.3	75.6	75.1	75.2	75.3
300	Mech. Input HP	0.305	0.371	0.624	1.00	1.60	2.23	2.94	4.18	6.60	9.00	16.2	26.4
	Out.Torq., in.lbs.	5380	7320	13000	20700	32000	46200	64200	85800	142000	193000	354000	585000
	Therm. Input HP	0.279	0.355	0.593	0.957	1.54	2.13	2.54	4.05	6.27	8.75	14.1	21.3
	Output RPM	2.00	2.00	2.00	2.12	2.12	2.12	2.12	2.12	2.10	2.09	2.09	2.09
	Efficiency %	56.0	62.7	66.4	69.4	67.1	69.7	73.4	69.0	71.7	71.1	72.5	73.4

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	155.0	155.0	152.4	152.4	152.4	152.4	152.4	152.4	151.2	151.2	151.2	151.2
	Ratio Combinations	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/6	5-1/8	5-1/8	5-1/8	5-1/8
		30	30	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2
1750	Mech. Input HP	1.46	1.87	3.10	4.69	6.65	9.41	12.6	17.1	26.2	34.1	53.3	75.3
	Out.Torq., in.lbs.	4920	6640	11500	18300	26800	38400	52400	71000	111000	148000	232000	327000
	Therm. Input HP	1.46	1.87	2.99	4.69	6.65	9.09	11.2	13.3	26.2	33.0	40.0	60.0
	Output RPM	11.3	11.3	11.5	11.5	11.5	11.5	11.5	11.5	11.6	11.6	11.6	11.6
	Efficiency%	60.6	63.5	67.6	71.1	73.4	74.4	75.8	75.6	77.8	80.0	79.8	79.8
1450	Mech. Input HP	1.26	1.61	2.60	4.05	5.84	8.20	10.9	14.6	23.2	31.5	49.8	71.3
	Out.Torq., in.lbs.	5050	6800	11700	19000	27600	39600	54000	73000	117000	159000	252000	360000
	Therm. Input HP	1.25	1.61	2.58	4.05	5.84	8.20	10.3	12.1	23.2	30.0	37.0	55.0
	Output RPM	9.35	9.35	9.51	9.51	9.51	9.51	9.51	9.51	9.59	9.59	9.59	9.59
	Efficiency%	59.5	62.7	67.9	70.8	71.4	72.9	74.8	75.5	76.7	76.8	77.0	76.9
1150	Mech. Input HP	1.04	1.33	2.14	3.32	4.83	7.05	9.20	12.3	19.4	27.1	43.4	62.6
	Out.Torq., in.lbs.	5190	6970	12000	19600	28400	41000	56000	76000	122000	171000	274000	396000
	Therm. Input HP	1.04	1.32	2.14	3.32	4.83	7.05	8.57	10.4	19.4	26.5	33.0	50.0
	Output RPM	7.42	7.42	7.54	7.54	7.54	7.54	7.54	7.54	7.61	7.61	7.61	7.61
	Efficiency%	58.8	61.6	67.1	70.7	70.4	69.6	72.9	74.0	75.9	76.1	76.2	76.4
865	Mech. Input HP	0.822	1.05	1.69	2.62	3.86	5.43	7.34	9.85	16.0	22.6	37.0	54.0
	Out.Torq., in.lbs.	5300	7130	12300	20100	29400	42400	58000	79000	129000	182000	297000	434000
	Therm. Input HP	0.815	1.04	1.69	2.62	3.86	5.43	7.03	8.75	16.0	22.1	30.0	45.0
	Output RPM	5.58	5.58	5.68	5.68	5.68	5.68	5.68	5.68	5.72	5.72	5.72	5.72
	Efficiency %	57.1	60.3	65.5	69.1	68.6	70.3	71.2	72.2	73.2	73.1	73.0	73.0
575	Mech. Input HP	0.574	0.735	1.17	1.84	2.72	3.87	5.31	7.05	11.4	16.5	27.3	40.3
	Out.Torq., in.lbs.	5380	7300	12500	20700	30400	43800	60800	82000	135000	195000	323000	476000
	Therm. Input HP	0.57	0.725	1.17	1.84	2.72	3.87	5.17	7.05	11.4	16.0	25.0	40.0
	Output RPM	3.71	3.71	3.77	3.77	3.77	3.77	3.77	3.77	3.80	3.80	3.80	3.80
	Efficiency%	55.2	58.4	64.0	67.4	66.9	67.8	68.5	69.6	71.4	71.3	71.2	71.3
300	Mech. Input HP	0.322	0.410	0.648	1.04	1.50	2.08	2.96	3.91	6.32	9.59	16.0	23.9
	Out.Torq., in.lbs.	5500	7460	12800	21300	30900	44200	61400	83000	137000	208000	349000	520000
	Therm. Input HP	0.314	0.398	0.636	1.01	1.49	2.08	2.96	3.91	6.32	8.80	15.0	22.3
	Output RPM	1.94	1.94	1.97	1.97	1.97	1.97	1.97	1.97	1.98	1.98	1.98	1.98
	Efficiency %	52.5	55.9	61.9	64.3	64.1	66.4	64.8	66.3	68.2	68.3	68.4	68.3

Horsepower and Torque Ratings • Double Worm

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	198.2	198.2	198.2	198.2	198.2	198.2	198.2	198.2	199.9	191.8	191.8	191.8
	Ratio Combinations	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-3/4	9-3/4	9-3/4	9-3/4
		20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	19-2/3	19-2/3	19-2/3
1750	Mech. Input HP	1.10	1.42	2.52	4.02	6.05	8.34	11.5	15.5	23.2	24.0	48.7	65.1
	Out.Torq., in.lbs.	4930	6750	12400	20200	30800	43700	60400	82500	129000	133000	270000	360000
	Therm. Input HP	1.09	1.41	2.16	3.86	5.50	7.20	10.3	12.5	18.0	24.0	40.0	58.0
	Output RPM	8.83	8.83	8.83	8.83	8.83	8.83	8.83	8.83	8.76	9.13	9.13	9.13
	Efficiency%	63.0	66.4	68.6	70.4	71.3	73.4	73.6	74.6	77.2	80.2	80.3	80.5
1450	Mech. Input HP	0.942	1.21	2.14	3.42	5.17	7.13	9.89	13.3	20.0	21.9	44.7	60.2
	Out.Torq., in.lbs.	4990	6830	12500	20600	31600	44800	62000	84500	133000	146000	298000	402000
	Therm. Input HP	0.935	1.20	2.02	3.42	4.98	6.62	9.35	11.1	17.0	21.9	37.0	55.0
	Output RPM	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.32	7.25	7.56	7.56	7.56
	Efficiency%	61.4	65.8	67.9	69.9	71.0	72.9	72.8	73.8	76.5	80.0	80.0	80.1
1150	Mech. Input HP	0.750	0.981	1.73	2.78	4.31	5.98	8.18	11.0	16.6	19.8	38.5	53.5
	Out.Torq., in.lbs.	5040	6920	12700	20900	32400	45900	63600	87000	137000	163000	317000	440000
	Therm. Input HP	0.743	0.964	1.71	2.77	4.17	5.97	8.18	9.86	15.8	19.8	33.0	50.0
	Output RPM	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.75	6.00	6.00	6.00
	Efficiency%	62.0	64.9	67.8	69.5	69.2	70.6	71.6	72.8	75.3	78.3	78.3	78.2
865	Mech. Input HP	0.580	0.758	1.34	2.17	3.34	4.68	4.50	8.57	13.0	17.7	30.2	45.7
	Out.Torq., in.lbs.	5100	7000	12900	21300	32800	46900	65500	88400	139000	190000	331000	490000
	Therm. Input HP	0.573	0.743	1.32	2.15	3.34	4.63	6.48	8.57	13.0	17.7	30.0	44.7
	Output RPM	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.36	4.33	4.51	4.51	4.51
	Efficiency %	60.9	63.9	66.6	68.0	68.0	69.4	70.0	71.4	73.4	76.8	78.6	78.8
575	Mech. Input HP	0.402	0.521	0.920	1.51	2.30	3.29	4.50	5.87	9.00	12.8	22.2	33.0
	Out.Torq., in.lbs.	5160	6250	13100	21700	33100	48000	66500	88400	141000	207000	346000	516000
	Therm. Input HP	0.393	0.505	0.892	1.47	2.28	3.18	4.43	5.87	8.88	12.3	20.6	30.7
	Output RPM	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.88	3.00	3.00	3.00
	Efficiency%	59.0	62.5	65.5	66.1	66.2	67.2	68.1	69.3	71.4	76.8	74.4	74.4
300	Mech. Input HP	0.224	0.286	0.507	0.830	1.26	1.84	2.55	3.30	5.09	7.49	12.7	19.6
	Out.Torq., in.lbs.	5210	7160	13300	22000	33700	49100	68200	90900	145000	214000	361000	540000
	Therm. Input HP	0.217	0.274	0.485	0.795	1.23	1.74	2.45	3.21	4.87	6.76	11.3	17.4
	Output RPM	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.50	1.56	1.56	1.56
	Efficiency %	55.8	60.1	62.9	63.7	64.0	64.0	64.2	66.1	68.0	70.9	70.7	68.5

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	236.8	236.8	236.8	236.8	236.8	236.8	236.8	236.8	238.9	238.9	238.9	238.9
	Ratio Combinations	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-3/4	9-3/4	9-3/4	9-3/4
		24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2
1750	Mech. Input HP	0.984	1.20	2.13	3.38	5.06	7.19	9.76	12.9	20.3	24.0	45.8	65.1
	Out.Torq., in.lbs.	5000	6550	12100	19700	30000	43400	59600	80500	131000	155000	296000	421000
	Therm. Input HP	0.983	1.20	2.13	3.38	5.06	6.97	9.13	11.2	18.0	24.0	35.0	53.0
	Output RPM	7.39	7.39	7.39	7.39	7.39	7.39	7.39	7.39	7.33	7.33	7.33	7.33
	Efficiency%	59.6	63.7	66.6	68.3	69.5	70.8	71.6	73.2	75.0	75.1	75.1	75.2
1450	Mech. Input HP	0.832	1.01	1.77	2.87	4.32	6.10	8.48	11.1	17.6	21.9	40.3	58.7
	Out.Torq., in.lbs.	5060	6620	12300	20000	30600	44200	61200	82500	135000	168000	309000	450000
	Therm. Input HP	0.830	0.996	1.77	2.86	4.32	5.88	8.00	9.66	15.6	21.9	33.0	50.0
	Output RPM	6.12	6.12	6.12	6.12	6.12	6.12	6.12	6.12	6.07	6.07	6.07	6.07
	Efficiency%	59.1	63.9	67.5	67.9	68.8	70.4	70.1	72.2	73.9	73.9	73.2	73.8
1150	Mech. Input HP	0.678	0.826	1.45	2.35	3.59	5.07	6.98	9.20	14.5	19.8	33.7	49.2
	Out.Torq., in.lbs.	5120	6700	12500	20400	31400	45300	62600	84500	139000	190000	323000	470000
	Therm. Input HP	0.675	0.820	1.45	2.34	3.59	5.07	6.68	8.48	14.0	19.8	30.0	47.0
	Output RPM	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.86	4.81	4.81	4.81	4.81
	Efficiency%	58.2	62.5	66.4	66.9	67.4	68.8	69.1	70.8	73.2	73.4	73.2	73.0
865	Mech. Input HP	0.505	0.613	1.09	1.75	2.67	3.79	5.24	6.87	11.1	15.9	26.4	38.5
	Out.Torq., in.lbs.	5180	6770	12600	20700	31900	46000	63700	85900	142000	203000	337000	490000
	Therm. Input HP	0.500	0.606	1.09	1.72	2.67	3.79	5.24	6.87	11.1	15.5	25.8	37.7
	Output RPM	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.62	3.62	3.62	3.62
	Efficiency %	59.5	64.0	67.0	68.7	69.2	70.4	70.5	72.5	73.5	73.4	73.3	73.1
575	Mech. Input HP	0.367	.440	0.788	1.26	1.94	2.74	3.80	4.89	7.81	11.6	17.8	25.9
	Out.Torq., in.lbs.	5240	6850	12800	21100	32400	46600	64700	86200	142000	210000	352000	514000
	Therm. Input HP	0.359	0.430	0.775	1.22	1.91	2.70	3.74	4.87	7.80	10.9	16.6	24.2
	Output RPM	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.43	2.41	2.41	2.41	2.41
	Efficiency%	55.0	59.9	62.6	64.4	64.4	65.6	65.6	68.0	69.5	69.4	75.7	75.8
300	Mech. Input HP	0.204	0.242	0.433	0.692	1.08	1.51	2.12	2.76	4.40	6.54	11.0	16.1
	Out.Torq., in.lbs.	5300	6920	13000	21400	33000	47600	66300	88500	146000	218000	367000	538000
	Therm. Input HP	0.198	0.234	0.420	0.660	1.04	1.46	2.04	2.68	4.26	5.95	9.90	14.4
	Output RPM	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.27	1.26	1.26	1.26	1.26
	Efficiency %	52.1	57.5	60.3	62.1	61.7	63.3	62.8	64.4	66.4	66.3	66.2	66.4

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	290.0	290.0	285.2	285.2	285.2	285.2	285.2	285.2	287.6	287.6	287.6	287.6
	Ratio Combinations	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-2/3	9-3/4	9-3/4	9-3/4	9-3/4
		30	30	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2
1750	Mech. Input HP	0.932	1.17	1.90	2.96	4.22	5.94	8.10	10.8	16.8	23.8	39.1	56.7
	Out.Torq., in.lbs.	5230	7090	12100	20000	29200	42000	57600	78500	127000	180000	296000	430000
	Therm. Input HP	0.930	1.16	1.88	2.96	4.22	5.94	7.62	9.39	15.9	23.1	30.0	47.0
	Output RPM	6.03	6.03	6.14	6.14	6.14	6.14	6.14	6.14	6.08	6.08	6.08	6.08
	Efficiency%	53.7	58.0	62.1	65.8	67.4	68.8	0.692	70.8	73.0	73.1	73.0	73.2
1450	Mech. Input HP	0.784	0.991	1.62	2.52	3.61	5.08	6.95	9.18	14.5	20.8	34.3	50.0
	Out.Torq., in.lbs.	5300	7180	12300	20300	29300	42800	58800	80000	130000	187000	308000	450000
	Therm. Input HP	0.780	0.980	1.59	2.52	3.60	5.08	6.65	7.93	13.8	20.2	28.0	44.0
	Output RPM	5.00	5.00	5.08	5.08	5.08	5.08	5.08	5.08	5.04	5.04	5.04	5.04
	Efficiency%	53.6	57.5	61.4	65.0	65.4	68.0	68.3	70.3	71.7	71.7	71.8	72.0
1150	Mech. Input HP	0.641	0.806	1.32	2.07	2.96	4.17	5.74	7.48	12.1	17.5	29.0	42.7
	Out.Torq., in.lbs.	5370	7280	12500	20600	30300	43700	60400	81000	134000	194000	320000	472000
	Therm. Input HP	0.638	0.798	1.30	2.07	2.96	4.17	5.55	7.06	11.5	17.0	26.0	41.0
	Output RPM	3.96	3.96	4.03	4.03	4.03	4.03	4.03	4.03	4.00	4.00	4.00	4.00
	Efficiency%	52.7	56.8	60.5	63.7	65.5	67.1	67.3	69.3	70.3	70.2	70.1	70.1
865	Mech. Input HP	0.501	0.626	1.00	1.66	2.30	3.23	4.47	5.84	9.48	13.9	23.0	34.2
	Out.Torq., in.lbs.	5430	7370	12600	21000	30600	44200	61400	83000	137000	201000	334000	495000
	Therm. Input HP	0.495	0.615	0.998	1.65	2.30	3.21	4.47	5.84	9.48	13.2	22.5	33.5
	Output RPM	2.98	2.98	3.03	3.03	3.03	3.03	3.03	3.03	3.01	3.01	3.01	3.01
	Efficiency %	51.3	55.7	60.8	60.7	64.0	65.8	66.1	68.4	69.0	69.0	69.1	69.0
575	Mech. Input HP	0.348	0.431	0.694	1.12	1.58	2.21	3.08	4.00	6.47	9.82	16.5	24.6
	Out.Torq., in.lbs.	5500	7460	12800	21300	30900	44200	61700	83000	137000	208000	349000	519000
	Therm. Input HP	0.340	0.419	0.681	1.09	1.57	2.21	3.06	4.00	6.47	9.02	15.4	22.9
	Output RPM	1.98	1.98	2.02	2.02	2.02	2.02	2.02	2.02	2.00	2.00	2.00	2.00
	Efficiency%	49.7	54.4	59.2	61.0	62.4	64.0	64.2	66.4	67.2	67.2	67.2	67.0
300	Mech. Input HP	0.196	0.237	0.379	0.612	0.870	1.19	1.69	2.21	3.59	5.53	9.32	13.9
	Out.Torq., in.lbs.	5560	7550	13000	21600	31500	44200	63100	84600	140000	215000	363000	544000
	Therm. Input HP	0.189	0.227	0.367	0.588	0.847	1.19	1.65	2.17	3.52	4.91	8.37	12.4
	Output RPM	1.03	1.03	1.05	1.05	1.05	1.05	1.05	1.05	1.04	1.04	1.04	1.04
	Efficiency %	46.6	52.4	57.3	59.0	60.3	62.0	62.1	63.8	64.4	64.4	64.5	64.6

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	317.8	317.8	317.8	317.8	317.8	317.8	317.8	317.8	300.7	288.5	288.5	288.5
	Ratio Combinations	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	14-2/3	14-2/3	14-2/3	14-2/3
		20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	19-2/3	19-2/3	19-2/3
1750	Mech. Input HP	0.765	0.991	1.72	2.77	4.22	5.83	7.95	10.8	18.0	18.0	36.8	46.9
	Out.Torq., in.lbs.	5060	6930	12800	21000	32400	45100	64000	87500	135000	135000	277000	353000
	Therm. Input HP	0.760	0.976	1.56	2.77	4.22	5.82	7.95	8.70	13.5	18.0	34.4	43.5
	Output RPM	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.51	5.82	6.07	6.07	6.07
	Efficiency%	57.7	61.1	64.8	66.2	67.1	69.1	70.3	70.8	69.3	72.2	72.4	72.4
1450	Mech. Input HP	0.642	0.832	1.45	2.35	3.62	4.97	6.82	9.07	15.5	16.4	33.5	43.1
	Out.Torq., in.lbs.	5090	6990	12900	21200	32800	46800	65500	88400	139000	147000	300000	386000
	Therm. Input HP	0.635	0.817	1.43	2.33	3.62	4.93	6.82	8.45	12.7	16.4	31.4	39.9
	Output RPM	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.56	4.82	5.03	5.03	5.03
	Efficiency%	57.5	60.8	64.3	65.6	65.6	68.1	69.5	70.6	68.6	71.5	71.4	71.4
1150	Mech. Input HP	0.519	0.669	1.18	1.90	2.89	4.05	5.49	7.38	12.5	15.0	29.9	38.3
	Out.Torq., in.lbs.	5130	7040	13000	21500	32800	47500	65600	88400	139000	167000	323000	413000
	Therm. Input HP	0.510	0.652	1.15	1.86	2.89	3.96	5.48	7.38	12.0	15.0	28.0	35.5
	Output RPM	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.62	3.82	3.99	3.99	3.99
	Efficiency%	56.7	60.4	63.4	65.1	63.5	67.3	68.6	68.8	67.5	70.4	68.3	68.2
865	Mech. Input HP	0.401	0.516	0.910	1.47	2.25	3.16	4.30	5.42	9.83	13.4	26.6	34.0
	Out.Torq., in.lbs.	5160	7090	13100	21700	32200	48200	66700	88800	141000	192000	330000	422000
	Therm. Input HP	0.391	0.499	0.880	1.43	2.23	3.04	4.22	5.40	9.70	13.4	25.1	31.8
	Output RPM	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.72	2.88	3.00	3.00	3.00
	Efficiency %	55.7	59.4	62.3	63.7	63.5	65.9	67.0	70.7	65.4	68.2	59.1	59.0
575	Mech. Input HP	0.276	0.354	0.623	1.01	1.57	2.19	3.00	3.91	6.82	9.99	16.8	25.2
	Out.Torq., in.lbs.	5200	7140	13200	22000	33600	48900	67800	90400	144000	212000	357000	533000
	Therm. Input HP	0.268	0.340	0.597	0.970	1.53	2.08	2.90	3.82	6.58	9.11	14.0	22.7
	Output RPM	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.91	1.99	1.99	1.99
	Efficiency%	54.0	57.9	61.1	62.4	61.5	64.0	64.8	66.4	64.1	67.0	67.0	66.9
300	Mech. Input HP	0.154	0.196	0.341	0.554	0.863	1.21	1.66	2.17	3.76	5.54	9.37	14.0
	Out.Torq., in.lbs.	5230	7190	13400	22200	34000	49600	68800	92000	147000	216000	367000	550000
	Therm. Input HP	0.148	0.187	0.324	0.527	0.833	1.13	1.58	2.09	3.55	4.94	8.23	12.2
	Output RPM	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.998	1.04	1.04	1.04
	Efficiency %	51.0	55.0	58.7	60.0	59.0	61.5	62.1	63.3	62.0	64.5	64.6	64.9

Horsepower and Torque Ratings • Double Worm

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	379.8	379.8	379.8	379.8	379.8	379.8	379.8	379.8	359.3	359.3	359.3	359.3
	Ratio Combinations	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	14-2/3	14-2/3	14-2/3	14-2/3
		24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2
1750	Mech. Input HP	0.693	0.804	1.47	2.36	3.56	4.96	6.85	9.00	15.0	18.0	34.7	46.9
	Out.Torq., in.lbs.	5140	6710	12500	20500	31600	45400	62800	85000	139000	167000	322000	435000
	Therm. Input HP	0.688	0.800	1.47	2.33	3.56	4.96	6.63	8.46	13.5	18.0	30.0	43.5
	Output RPM	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.61	4.87	4.87	4.87	4.87
	Efficiency%	54.2	61.0	62.2	63.4	64.9	66.9	67.0	69.0	71.6	71.7	71.7	71.7
1450	Mech. Input HP	0.575	0.704	1.24	1.99	3.02	4.18	5.82	7.63	12.2	16.4	28.5	42.7
	Out.Torq., in.lbs.	5170	6760	12600	20600	31900	46000	63700	85900	142000	191000	332000	482000
	Therm. Input HP	0.570	0.696	1.24	1.96	3.02	4.18	5.82	7.50	12.2	16.4	28.3	39.9
	Output RPM	3.82	3.82	3.82	3.82	3.82	3.82	3.82	3.82	4.04	4.04	4.04	4.04
	Efficiency%	54.5	58.2	61.6	63.0	64.0	66.7	66.3	68.2	74.5	74.6	74.4	72.2
1150	Mech. Input HP	0.469	0.572	0.970	1.61	2.44	3.38	4.72	6.13	10.1	14.6	14.6	35.6
	Out.Torq., in.lbs.	5210	6810	12700	20900	32100	46100	64000	85900	142000	205000	205000	498000
	Therm. Input HP	0.462	0.562	0.960	1.57	2.42	3.37	4.70	6.13	10.1	14.1	14.1	34.3
	Output RPM	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.03	3.20	3.20	3.20	3.20
	Efficiency%	53.4	57.2	63.1	62.4	63.3	65.6	65.1	67.3	71.4	71.3	71.1	71.1
865	Mech. Input HP	0.361	0.440	0.779	1.24	1.90	2.65	3.66	4.70	7.58	11.3	18.8	27.5
	Out.Torq., in.lbs.	5250	6860	12800	21100	32500	46800	64900	86500	142000	210000	352000	514000
	Therm. Input HP	0.353	0.429	0.764	1.20	1.86	2.61	3.59	4.67	7.57	10.6	17.6	25.7
	Output RPM	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.28	2.41	2.41	2.41	2.41
	Efficiency %	52.5	56.4	59.6	61.4	62.0	63.7	64.1	66.5	71.6	71.4	71.4	71.3
575	Mech. Input HP	0.248	0.301	0.535	0.853	1.32	1.83	2.54	3.28	5.42	8.05	13.6	19.8
	Out.Torq., in.lbs.	5250	6900	13000	21300	32900	47400	66000	88000	145000	215000	363000	531000
	Therm. Input HP	0.353	0.292	0.520	0.816	1.28	1.78	2.45	3.20	5.30	7.40	12.3	17.9
	Output RPM	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.51	1.60	1.60	1.60	1.60
	Efficiency%	52.5	55.0	58.2	60.0	59.9	62.1	62.5	64.5	68.0	67.9	67.9	68.1
300	Mech. Input HP	0.137	0.164	0.293	0.470	0.734	0.996	1.41	1.82	3.03	4.50	7.62	11.2
	Out.Torq., in.lbs.	5320	6950	13100	21500	33300	48000	66900	89400	148000	220000	373000	547000
	Therm. Input HP	0.132	0.158	0.283	0.445	0.703	0.954	1.34	1.75	2.90	4.04	6.72	9.80
	Output RPM	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.790	0.835	0.835	0.835	0.835
	Efficiency %	48.7	53.1	55.8	57.4	56.9	60.4	59.6	61.5	64.9	64.9	64.9	64.9

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	420.3	420.3	420.3	420.3	420.3	420.3	420.3	420.3	420.3	403.2	403.2	403.2
	Ratio Combinations	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2
		20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	19-2/3	19-2/3	19-2/3
1750	Mech. Input HP	0.615	0.795	1.36	2.21	3.32	4.67	6.40	8.56	13.1	14.0	28.1	37.8
	Out.Torq., in.lbs.	5110	7010	12900	21400	32800	47100	65500	88400	139000	149000	300000	403000
	Therm. Input HP	0.607	0.778	1.25	2.18	3.32	4.30	6.40	7.95	13.1	14.0	26.3	35.0
	Output RPM	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.34	4.34	4.34
	Efficiency%	54.8	58.2	62.6	63.9	65.3	66.6	67.6	68.2	70.1	73.3	73.5	73.4
1450	Mech. Input HP	0.516	0.672	1.15	1.85	2.78	3.98	5.38	7.17	11.0	12.8	25.7	34.2
	Out.Torq., in.lbs.	5140	7050	13000	21500	32800	47600	65800	88400	139000	162000	323000	430000
	Therm. Input HP	0.506	0.654	1.12	1.81	2.78	3.88	5.35	6.85	11.0	12.8	24.1	31.7
	Output RPM	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.45	3.60	3.60	3.60
	Efficiency%	54.5	57.4	62.1	63.8	64.6	65.5	67.0	67.5	69.2	72.2	71.8	71.7
1150	Mech. Input HP	0.416	0.538	0.932	1.50	2.26	3.24	4.41	5.79	8.88	11.7	21.8	30.8
	Out.Torq., in.lbs.	5160	7090	13100	21700	33100	48200	66700	88700	141000	186000	348000	491000
	Therm. Input HP	0.406	0.521	0.902	1.46	2.24	3.12	4.33	5.77	8.73	11.7	20.2	28.6
	Output RPM	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.74	2.85	2.85	2.85
	Efficiency%	53.9	57.2	61.1	62.7	63.6	64.6	65.7	66.5	69.1	71.9	72.1	72.2
865	Mech. Input HP	0.321	0.416	0.720	1.15	1.74	2.52	3.42	4.54	6.92	10.2	16.5	24.6
	Out.Torq., in.lbs.	5190	7130	13200	21900	33500	48700	67500	89900	144000	211000	355000	530000
	Therm. Input HP	0.312	0.400	0.692	1.11	1.71	2.40	3.32	4.46	6.70	9.29	15.0	22.3
	Output RPM	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.06	2.14	2.14	2.14
	Efficiency %	52.8	56.0	59.9	62.1	62.6	63.1	64.4	64.7	67.8	70.7	73.1	73.3
575	Mech. Input HP	0.220	0.284	0.493	0.795	1.20	1.74	2.36	3.14	4.82	7.09	11.9	17.9
	Out.Torq., in.lbs.	5220	7170	13300	22100	33800	49200	68300	91200	146000	214000	362000	543000
	Therm. Input HP	0.212	0.272	0.471	0.760	1.17	1.64	2.26	3.04	4.60	6.38	10.6	15.8
	Output RPM	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.37	1.43	1.43	1.43
	Efficiency%	51.6	54.7	58.5	60.3	60.8	61.4	62.9	63.1	65.6	68.4	68.7	68.7
300	Mech. Input HP	0.120	0.269	0.269	0.439	0.673	0.962	1.31	1.74	2.68	3.46	6.71	10.1
	Out.Torq., in.lbs.	5240	13400	13400	22200	34100	49800	69100	92400	148000	218000	370000	555000
	Therm. Input HP	0.115	0.255	0.255	0.416	0.647	0.897	1.24	1.67	2.52	3.50	5.84	8.70
	Output RPM	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.714	0.744	0.744	0.744
	Efficiency %	49.3	52.5	56.4	57.4	71.4	58.6	59.8	60.0	62.5	65.1	65.1	65.1

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3	502.3
	Ratio Combinations	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2
		24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2	24-1/2
1750	Mech. Input HP	0.561	0.677	1.17	1.87	2.81	3.95	5.48	7.24	11.5	14.0	27.4	37.8
	Out.Torq., in.lbs.	5190	6780	12700	20800	31900	46000	63700	85900	142000	173000	339000	467000
	Therm. Input HP	0.555	0.668	1.16	1.84	2.81	3.95	5.48	7.24	10.5	14.0	26.3	35.0
	Output RPM	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48	3.48
	Efficiency%	51.1	55.4	60.0	61.3	62.8	64.4	64.3	65.6	68.2	68.3	68.4	68.3
1450	Mech. Input HP	0.470	0.567	0.988	1.57	2.39	3.34	4.67	5.97	9.57	12.8	23.4	34.0
	Out.Torq., in.lbs.	5220	6820	12800	20900	32200	46200	64100	85900	142000	190000	346000	504000
	Therm. Input HP	0.462	0.556	0.976	1.53	2.37	3.32	4.64	5.97	9.57	12.8	2.22	31.7
	Output RPM	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
	Efficiency%	50.9	55.1	59.1	61.1	61.6	63.5	62.9	65.9	68.0	68.0	67.9	67.9
1150	Mech. Input HP	0.380	0.457	0.800	1.27	1.94	2.71	3.82	4.85	7.66	11.3	18.9	27.6
	Out.Torq., in.lbs.	5250	6860	12800	21100	32500	46700	64900	86400	142000	211000	354000	516000
	Therm. Input HP	0.371	0.446	0.785	1.23	1.90	2.67	3.75	4.82	7.63	10.6	17.6	25.7
	Output RPM	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29	2.29
	Efficiency%	50.2	54.5	58.3	60.2	61.0	62.6	61.7	64.7	67.6	67.8	67.9	67.8
865	Mech. Input HP	0.292	0.352	0.617	0.982	1.51	2.10	2.99	3.77	5.97	8.86	14.9	21.8
	Out.Torq., in.lbs.	5270	6890	12900	21300	32800	47200	65700	87600	145000	214000	361000	528000
	Therm. Input HP	0.284	0.342	0.601	0.942	1.47	2.05	2.90	3.70	5.86	8.18	13.6	19.8
	Output RPM	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72	1.72
	Efficiency %	49.4	53.4	57.3	59.2	59.3	61.3	60.0	63.4	66.2	66.1	66.1	66.2
575	Mech. Input HP	0.200	0.240	0.423	0.677	1.06	1.46	2.06	2.62	4.14	6.15	10.4	15.2
	Out.Torq., in.lbs.	5300	6930	13000	21400	33100	47700	66400	88700	147000	218000	369000	540000
	Therm. Input HP	0.193	0.232	0.410	0.644	1.02	1.41	1.98	2.54	4.00	5.58	9.30	13.5
	Output RPM	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
	Efficiency%	48.3	52.4	55.8	57.5	56.8	59.3	58.4	61.4	64.5	64.4	64.2	64.6
300	Mech. Input HP	0.111	0.131	0.233	0.373	0.586	0.808	1.14	1.45	2.22	3.30	5.58	8.20
	Out.Torq., in.lbs.	5330	6960	13100	21600	33400	48200	67200	89800	149000	222000	376000	552000
	Therm. Input HP	0.107	0.126	0.224	0.352	0.560	0.771	1.08	1.39	2.11	2.94	4.88	7.13
	Output RPM	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597	0.597
	Efficiency %	45.4	50.3	53.3	54.9	54.0	59.7	55.9	58.6	63.8	63.8	63.9	63.8

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	620.0	620.0	620.0	620.0	620.0	620.0	620.0	620.0	586.6	579.3	579.3	579.3
	Ratio Combinations	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	15-1/2	14-2/3	14-2/3	14-2/3	14-2/3
		40	40	40	40	40	40	40	40	40	39-1/2	39-1/2	39-1/2
1750	Mech. Input HP	0.559	0.650	1.09	1.68	2.46	3.44	4.83	6.30	10.2	15.6	25.2	38.4
	Out.Torq., in.lbs.	5190	6900	12500	20400	30800	44300	60700	83000	136000	190000	306000	465000
	Therm. Input HP	0.545	0.647	1.07	1.68	2.42	3.44	4.58	6.30	10.2	15.6	25.0	30.0
	Output RPM	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.98	3.02	3.02	3.02
	Efficiency%	41.6	47.6	51.5	54.4	56.1	57.7	56.3	59.0	63.1	58.4	58.3	58.0
1450	Mech. Input HP	0.451	0.547	0.913	1.42	2.08	2.92	4.14	5.35	8.73	12.2	19.9	30.4
	Out.Torq., in.lbs.	5230	6950	12600	20600	31100	44800	61600	84400	138000	193000	315000	478000
	Therm. Input HP	0.446	0.544	0.898	1.41	2.08	2.92	3.92	5.35	8.73	12.2	19.7	28.0
	Output RPM	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.34	2.47	2.50	2.50	2.50
	Efficiency%	43.0	47.1	51.2	54.0	55.7	56.9	55.3	58.5	62.0	62.8	62.7	62.5
1150	Mech. Input HP	0.365	0.444	0.747	1.15	1.69	2.36	3.39	4.36	7.02	9.85	16.4	25.2
	Out.Torq., in.lbs.	5270	7000	12700	20800	31500	44900	62600	84400	138000	194000	324000	494000
	Therm. Input HP	0.358	0.438	0.728	1.15	1.67	2.35	3.16	4.36	7.02	9.81	15.8	24.3
	Output RPM	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.85	1.96	1.98	1.98	1.98
	Efficiency%	42.5	46.4	50.1	53.4	55.0	56.1	54.4	57.0	61.2	62.0	62.0	61.8
865	Mech. Input HP	0.280	0.343	0.577	0.887	1.34	1.84	2.66	3.38	5.46	7.75	13.0	20.0
	Out.Torq., in.lbs.	5310	7050	12800	21000	31900	45500	63600	84900	140000	198000	332000	510000
	Therm. Input HP	0.273	0.336	0.558	0.865	1.31	1.81	2.44	3.36	5.40	7.55	12.2	18.7
	Output RPM	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.47	1.49	1.49	1.49
	Efficiency %	41.9	45.5	49.2	52.5	52.7	54.8	53.0	55.6	60.0	60.6	60.4	60.4
575	Mech. Input HP	0.192	0.236	0.399	0.613	0.928	1.28	1.83	2.37	3.82	5.43	9.16	14.1
	Out.Torq., in.lbs.	5350	7100	12900	21200	32300	46100	64500	86400	143000	202000	341000	526000
	Therm. Input HP	0.186	0.230	0.382	0.592	0.897	1.24	1.66	2.32	3.70	5.18	8.35	12.8
	Output RPM	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.927	0.980	0.992	0.992	0.992
	Efficiency%	40.9	44.2	47.8	51.0	51.2	53.2	51.8	53.5	58.0	58.7	58.7	58.7
300	Mech. Input HP	0.106	0.128	0.220	0.339	0.514	0.715	1.01	1.33	2.14	3.04	5.14	7.95
	Out.Torq., in.lbs.	5380	7150	13000	21400	32600	46700	65400	87700	146000	207000	350000	542000
	Therm. Input HP	0.102	0.124	0.209	0.324	0.492	0.686	0.900	1.28	2.03	2.84	4.57	7.00
	Output RPM	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.484	0.511	0.518	0.518	0.518
	Efficiency %	38.9	42.8	45.6	48.6	48.7	50.1	49.8	50.6	55.2	55.8	55.9	56.0

Horsepower and Torque Ratings • Double Worm

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	775.0	775.0	775.0	775.0	775.0	775.0	775.0	733.3	733.3	733.3	733.3
		Ratio Combinations	15-1/2 50	15-1/2 50	15-1/2 50	15-1/2 50	15-1/2 50	15-1/2 50	15-1/2 50	14-2/3 50	14-2/3 50	14-2/3 50	14-2/3 50
1750	Mech. Input HP	0.451	0.519	0.898	1.40	2.08	2.87	3.90	5.12	8.57	12.6	20.8	31.4
	Out.Torq., in.lbs.	4880	6280	11900	19600	29800	42800	59600	80000	131000	186000	307000	464000
	Therm. Input HP	0.444	0.519	0.877	1.37	2.01	2.87	3.90	4.80	8.40	11.7	19.4	25.0
	Output RPM	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.26	2.39	2.39	2.39	2.39
	Efficiency%	38.8	43.4	47.4	50.0	51.2	53.4	54.8	56.0	55.9	55.2	56.0	55.9
1450	Mech. Input HP	0.380	0.435	0.758	1.20	1.77	2.44	3.35	4.37	7.35	10.8	18.0	27.4
	Out.Torq., in.lbs.	4920	6300	12000	19800	30100	43200	60800	80900	133000	191000	316000	480000
	Therm. Input HP	0.372	0.435	0.740	1.16	1.76	2.43	3.35	4.37	7.16	10.0	16.7	23.0
	Output RPM	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.87	1.98	1.98	1.98	1.98
	Efficiency%	38.5	43.0	46.9	49.1	50.6	52.6	53.9	55.0	55.1	55.2	55.1	55.0
1150	Mech. Input HP	0.305	0.349	0.612	0.968	1.43	1.99	2.67	3.52	7.35	8.80	14.6	22.3
	Out.Torq., in.lbs.	4950	6300	12100	20000	30500	43800	60800	80900	133000	195000	326000	497000
	Therm. Input HP	0.297	0.348	0.592	0.930	1.41	1.96	2.67	3.52	5.67	7.93	13.2	19.3
	Output RPM	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.48	1.57	1.57	1.57	1.57
	Efficiency%	38.2	42.6	46.5	48.6	50.1	51.8	53.6	54.1	55.2	55.2	55.3	55.4
865	Mech. Input HP	0.235	0.271	0.474	0.753	1.12	1.56	2.10	2.77	4.76	7.06	14.6	18.0
	Out.Torq., in.lbs.	4980	6360	12200	20200	30900	44400	61500	82300	135000	200000	326000	514000
	Therm. Input HP	0.227	0.269	0.455	0.716	1.09	1.51	2.08	2.72	4.44	6.22	13.2	15.1
	Output RPM	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.18	1.18	1.18	1.18
	Efficiency %	37.6	41.5	45.5	47.5	48.7	50.5	51.8	52.7	53.0	53.0	53.3	53.2
575	Mech. Input HP	0.159	0.186	0.327	0.522	0.780	1.09	1.46	1.91	3.35	4.97	8.40	13.0
	Out.Torq., in.lbs.	5020	6400	12300	20400	31200	45000	62400	83600	138000	204000	344000	531000
	Therm. Input HP	0.153	0.183	0.311	0.491	0.750	1.04	1.42	1.85	3.06	4.28	7.15	10.5
	Output RPM	0.742	0.742	0.742	0.742	0.742	0.742	0.742	0.742	0.784	0.784	0.784	0.784
	Efficiency%	37.1	40.5	44.3	46.0	47.1	48.8	50.4	51.5	51.2	51.2	51.0	50.9
300	Mech. Input HP	0.088	0.102	0.181	0.289	0.427	0.605	0.817	1.08	1.87	2.79	4.73	7.34
	Out.Torq., in.lbs.	5050	6440	12400	20600	31600	45600	63300	85000	140000	209000	354000	548000
	Therm. Input HP	0.084	0.099	0.171	0.270	0.406	0.572	0.785	1.03	1.68	2.35	3.92	5.75
	Output RPM	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.409	0.409	0.409	0.409
	Efficiency %	35.0	38.9	42.0	43.7	45.4	46.3	47.6	48.2	48.6	48.6	48.6	48.5

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	900.0	900.0	885.0	885.0	885.0	870.0	870.0	870.0	870.0	870.0	870.0
		Ratio Combinations	30 30	30 30	30 29-1/2	30 29-1/2	30 29-1/2	29-1/2 29-1/2	29-1/2 29-1/2	29-1/2 29-1/2	29-1/2 29-1/2	29-1/2 29-1/2	29-1/2 29-1/2
1750	Mech. Input HP	0.413	0.509	0.794	1.24	1.77	2.43	3.41	4.40	7.13	11.2	18.9	26.5
	Out.Torq., in.lbs.	5500	7460	12800	21300	30900	44200	61700	82600	136000	208000	348000	488000
	Therm. Input HP	0.403	0.494	0.779	1.21	1.75	2.43	3.34	4.35	7.06	10.2	17.4	24.6
	Output RPM	1.94	1.94	1.98	1.98	1.98	1.98	2.01	2.01	2.01	2.01	2.01	2.01
	Efficiency%	41.1	45.2	50.8	53.9	54.9	57.1	57.7	59.9	60.9	58.8	58.8	58.8
1450	Mech. Input HP	0.344	0.425	0.666	1.06	1.48	2.04	2.89	3.68	6.12	9.36	15.8	23.6
	Out.Torq., in.lbs.	5520	7490	12900	21400	31100	44200	62200	83300	137000	210000	354000	528000
	Therm. Input HP	0.334	0.411	0.650	1.03	1.46	2.08	2.81	3.61	6.00	8.36	14.3	21.3
	Output RPM	1.61	1.61	1.64	1.64	1.64	1.64	1.67	1.67	1.67	1.67	1.67	1.67
	Efficiency%	41.1	45.0	50.4	52.5	54.5	56.3	56.8	59.8	59.4	59.4	59.3	59.1
1150	Mech. Input HP	0.287	0.342	0.538	0.857	1.21	1.64	2.34	2.99	4.89	7.34	12.3	18.4
	Out.Torq., in.lbs.	5550	7520	13000	21600	31300	44200	62700	84000	139000	213000	359000	536000
	Therm. Input HP	0.278	0.329	0.523	0.827	0.914	1.64	2.25	2.90	4.74	6.47	11.0	16.3
	Output RPM	1.28	1.28	1.30	1.30	1.30	1.30	1.32	1.32	1.32	1.32	1.32	1.32
	Efficiency%	39.2	44.6	49.7	51.9	53.5	55.6	56.2	59.0	59.6	60.9	61.1	61.2
865	Mech. Input HP	0.209	0.261	0.415	0.665	0.940	1.26	1.81	2.34	3.79	5.82	9.82	14.6
	Out.Torq., in.lbs.	5570	7550	13000	21700	31500	44200	63100	84700	140000	215000	364000	545000
	Therm. Input HP	0.202	0.250	0.402	0.638	0.914	1.26	1.73	2.25	3.64	5.07	8.65	12.8
	Output RPM	0.961	0.961	0.977	0.977	0.977	0.977	0.994	0.994	0.994	0.994	0.994	0.994
	Efficiency %	40.5	44.2	48.6	50.6	51.9	54.4	55.0	57.2	58.4	58.4	58.4	58.6
575	Mech. Input HP	0.144	0.179	0.287	0.462	0.652	1.26	1.24	1.61	2.65	4.09	6.92	10.4
	Out.Torq., in.lbs.	5590	7580	13100	21800	31600	44200	63600	85400	142000	218000	369000	554000
	Therm. Input HP	0.138	0.171	0.277	0.441	0.630	0.872	1.18	1.54	2.52	3.52	6.01	8.97
	Output RPM	0.639	0.639	0.650	0.650	0.650	0.650	0.661	0.661	0.661	0.661	0.661	0.661
	Efficiency%	39.4	42.9	46.9	48.6	50.1	52.3	53.6	55.6	56.0	55.9	55.9	55.6
300	Mech. Input HP	0.079	0.098	0.162	0.257	0.364	0.484	0.687	0.897	1.48	2.28	3.85	5.79
	Out.Torq., in.lbs.	5610	7610	3100	21900	31800	44200	64100	86100	143000	220000	374000	562000
	Therm. Input HP	0.075	0.093	0.155	0.244	0.350	0.484	0.647	.850	1.39	1.94	3.30	4.90
	Output RPM	0.333	0.333	0.339	0.339	0.339	0.339	0.345	0.345	0.345	0.345	0.345	0.345
	Efficiency %	37.5	41.0	43.7	45.8	47.0	49.1	51.0	52.5	53.0	53.0	53.1	53.1

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025
		Ratio Combinations	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2	20-1/2
			50	50	50	50	50	50	50	50	50	50	50
1750	Mech. Input HP	0.372	0.422	0.728	1.13	1.68	2.34	3.84	4.15	6.46	9.41	15.6	23.8
	Out.Torq., in.lbs.	4930	6300	12000	19900	30300	43500	58800	80900	133000	194000	322000	491000
	Therm. Input HP	0.364	0.422	0.708	1.09	1.66	2.32	3.22	4.15	6.46	9.04	15.0	22.0
	Output RPM	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71	1.71
	Efficiency%	35.9	40.4	44.8	47.7	49.0	50.3	54.8	52.8	55.8	55.7	56.0	55.9
1450	Mech. Input HP	0.306	0.353	0.610	0.954	1.42	1.99	3.29	3.51	5.44	8.06	13.5	20.6
	Out.Torq., in.lbs.	4960	6320	12100	20000	30600	44000	59700	81200	133000	197000	329000	503000
	Therm. Input HP	0.297	0.352	0.589	0.915	1.39	1.95	2.71	3.50	5.44	7.61	12.7	18.6
	Output RPM	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41	1.41
	Efficiency%	36.4	40.2	44.6	47.1	48.4	49.6	53.9	51.9	54.9	54.9	54.8	54.8
1150	Mech. Input HP	0.245	0.284	0.494	0.778	1.16	1.62	2.66	2.89	4.35	6.47	10.8	16.6
	Out.Torq., in.lbs.	4980	6360	12100	20200	30800	44400	60600	82200	135000	200000	336000	516000
	Therm. Input HP	0.237	0.281	0.474	0.740	1.13	1.57	2.18	2.84	3.38	6.00	10.0	14.6
	Output RPM	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12	1.12
	Efficiency%	36.2	39.9	43.9	46.2	47.3	48.9	53.6	50.7	55.3	55.2	55.2	55.4
865	Mech. Input HP	0.187	0.217	0.377	0.598	0.909	1.27	2.10	2.25	3.49	5.17	8.70	13.4
	Out.Torq., in.lbs.	5010	6390	12300	20300	31100	44900	61500	83300	137000	204000	343000	528000
	Therm. Input HP	0.180	0.214	0.360	0.565	0.876	1.22	1.69	2.19	3.38	4.72	7.86	11.5
	Output RPM	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844	0.844
	Efficiency %	35.9	39.4	43.5	45.5	45.9	47.3	51.8	49.5	52.7	52.8	52.8	52.9
575	Mech. Input HP	0.128	0.148	0.260	0.413	0.638	0.878	1.46	1.57	2.45	3.64	6.16	9.53
	Out.Torq., in.lbs.	5040	6420	12300	20500	31400	45300	62400	84300	139000	207000	350000	541000
	Therm. Input HP	0.122	0.145	0.246	0.387	0.610	0.835	1.16	1.51	2.34	3.27	5.46	8.00
	Output RPM	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561	0.561
	Efficiency%	35.2	38.7	42.3	44.2	43.8	45.9	50.4	47.7	50.6	50.6	50.5	50.5
300	Mech. Input HP	0.069	0.080	0.142	0.227	0.364	0.491	0.817	0.875	1.38	2.06	3.49	5.46
	Out.Torq., in.lbs.	5060	6450	12400	20600	31700	45700	63300	85300	141000	211000	357000	553000
	Therm. Input HP	0.066	0.078	0.134	0.211	0.345	0.463	0.652	0.830	1.30	1.82	3.03	4.48
	Output RPM	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
	Efficiency %	33.7	37.2	40.6	42.3	40.4	43.2	47.6	45.3	47.5	47.4	47.5	47.1

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	1200	1200	1200	1200	1200	1180	1180	1180	1165	1165	1165
		Ratio Combinations	30	30	30	30	30	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2	29-1/2
			40	40	40	40	40	40	40	40	39-1/2	39-1/2	39-1/2
1750	Mech. Input HP	0.343	0.407	0.666	1.02	1.50	2.09	2.78	3.69	5.95	8.44	14.2	21.8
	Out.Torq., in.lbs.	5300	7050	12800	21000	31800	45400	63400	84600	140000	198000	332000	509000
	Therm. Input HP	0.334	0.399	0.645	1.00	1.47	2.06	2.56	3.68	5.88	8.23	13.3	20.4
	Output RPM	1.46	1.46	1.46	1.46	1.46	1.46	1.48	1.48	1.48	1.50	1.50	1.50
	Efficiency%	35.8	40.1	44.5	47.4	49.1	50.3	53.7	54.0	55.2	55.9	55.7	55.7
1450	Mech. Input HP	0.287	0.341	0.561	0.870	1.26	1.78	2.34	3.10	4.98	7.06	11.9	18.3
	Out.Torq., in.lbs.	5330	7070	12900	21100	32000	45800	63900	85400	141000	200000	337000	518000
	Therm. Input HP	0.279	0.333	0.540	0.845	0.998	1.74	2.14	3.06	4.87	6.81	11.0	16.9
	Output RPM	1.21	1.21	1.21	1.21	0.958	0.958	1.23	1.23	1.23	1.24	1.24	1.24
	Efficiency%	35.5	39.8	44.0	46.5	48.6	49.4	53.2	53.8	55.2	56.0	55.8	55.7
1150	Mech. Input HP	0.228	0.272	0.453	0.706	1.03	1.45	1.91	2.49	4.05	5.73	9.68	14.9
	Out.Torq., in.lbs.	5340	7100	12900	21200	32200	46100	64400	86200	143000	202000	342000	526000
	Therm. Input HP	0.221	0.265	0.434	0.682	0.998	1.41	1.73	2.44	3.92	5.46	8.82	13.5
	Output RPM	0.958	0.958	0.958	0.958	0.958	0.958	0.974	0.974	0.974	0.987	0.987	0.987
	Efficiency%	35.6	39.6	43.4	45.7	47.5	48.3	52.2	53.5	54.4	55.4	55.2	55.3
865	Mech. Input HP	0.175	0.208	0.352	0.548	0.804	1.12	1.49	1.93	3.18	4.50	7.62	11.8
	Out.Torq., in.lbs.	5360	7130	13000	21300	32400	46400	64900	87000	144000	205000	346000	534000
	Therm. Input HP	0.169	0.202	0.336	0.527	0.773	1.08	1.34	1.87	3.04	4.24	6.85	10.5
	Output RPM	0.721	0.721	0.721	0.721	0.721	0.721	0.733	0.733	0.733	0.742	0.742	0.742
	Efficiency %	35.0	39.1	42.2	44.5	46.2	47.4	50.7	53.5	52.8	53.6	53.5	53.5
575	Mech. Input HP	0.120	0.143	0.244	0.389	0.560	0.774	1.03	1.34	2.21	3.13	5.32	8.22
	Out.Torq., in.lbs.	5390	7150	13000	21400	32600	46700	65400	87700	146000	207000	351000	543000
	Therm. Input HP	0.115	0.138	0.232	0.372	0.535	0.742	0.917	1.29	2.09	2.92	4.72	7.23
	Output RPM	0.479	0.479	0.479	0.479	0.479	0.479	0.487	0.487	0.487	0.493	0.493	0.493
	Efficiency%	34.2	38.1	40.6	41.9	44.3	45.9	49.2	50.6	51.0	51.8	51.6	51.7
300	Mech. Input HP	0.0660	0.078	0.136	0.211	0.314	0.433	0.572	0.743	1.24	1.74	2.97	4.61
	Out.Torq., in.lbs.	5400	7180	13100	21500	32800	47000	65900	88400	147000	209000	355000	551000
	Therm. Input HP	0.063	0.075	0.129	0.201	0.299	0.413	0.507	0.736	1.16	1.61	2.60	3.99
	Output RPM	0.250	0.250	0.250	0.250	0.250	0.250	0.254	0.254	0.254	0.257	0.257	0.257
	Efficiency %	32.5	36.3	38.1	40.4	41.4	43.0	46.5	48.0	48.0	49.0	48.9	48.8

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	1500	1500	1500	1470	1470	1470	1470	1470	1470	1470	1470
		Ratio Combinations	25 60	25 60	25 60	24-1/2 60	24-1/2 60	24-1/2 60	24-1/2 60	24-1/2 60	24-1/2 60	24-1/2 60	24-1/2 60
1750	Mech. Input HP	0.291	0.321	0.534	0.814	1.20	1.67	2.29	3.00	4.67	7.00	11.6	17.2
	Out.Torq., in.lbs.	4670	5860	10900	18100	27600	40000	55300	74100	122000	185000	309000	460000
	Therm. Input HP	0.283	0.307	0.493	0.793	1.19	1.67	2.27	3.00	4.67	6.66	11.0	16.3
	Output RPM	1.17	1.17	1.17	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19	1.19
	Efficiency%	29.7	33.8	37.9	41.9	43.5	45.2	45.6	46.7	49.3	49.9	50.3	50.4
1450	Mech. Input HP	0.243	0.267	0.446	0.684	1.01	1.42	1.92	2.52	3.84	5.90	9.72	14.4
	Out.Torq., in.lbs.	4690	5880	11000	18200	27800	40300	55800	74600	122000	188000	315000	496000
	Therm. Input HP	0.235	0.254	0.410	0.662	0.994	1.41	1.89	2.50	3.84	5.54	9.05	13.4
	Output RPM	0.967	0.967	0.967	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.986	0.986
	Efficiency%	29.6	33.8	37.8	41.6	43.1	44.4	45.4	46.4	49.7	49.7	50.7	50.8
1150	Mech. Input HP	0.193	0.213	0.360	0.552	0.815	1.15	1.59	2.05	3.08	4.80	8.05	12.0
	Out.Torq., in.lbs.	4710	5900	11000	18300	28000	40700	56300	75400	122000	190000	320000	478000
	Therm. Input HP	0.186	0.202	0.329	0.531	0.797	1.13	1.55	2.02	3.08	4.44	7.37	10.9
	Output RPM	0.767	0.767	0.767	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782	0.782
	Efficiency%	29.7	33.7	37.3	41.1	42.7	42.7	43.9	45.5	49.2	49.2	49.4	49.5
865	Mech. Input HP	0.147	0.163	0.277	0.426	0.631	0.897	1.24	1.60	2.38	3.72	6.27	9.35
	Out.Torq., in.lbs.	4730	5920	11100	18400	28200	41000	56800	76100	122000	193000	325000	487000
	Therm. Input HP	0.141	0.154	0.252	0.408	0.613	0.876	1.20	1.56	2.38	3.40	5.65	8.35
	Output RPM	0.577	0.577	0.577	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588	0.588
	Efficiency %	29.5	33.3	36.7	40.3	41.7	42.6	42.6	44.4	47.9	48.3	48.4	48.6
575	Mech. Input HP	0.101	0.110	0.191	0.294	0.440	0.622	0.884	1.11	1.65	2.64	4.27	6.39
	Out.Torq., in.lbs.	4750	5950	11100	18500	28400	41300	57300	76800	122000	195000	331000	496000
	Therm. Input HP	0.096	0.104	0.173	0.280	0.424	0.603	0.845	1.02	1.65	2.38	3.78	5.60
	Output RPM	0.383	0.383	0.383	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391	0.391
	Efficiency%	28.6	32.8	35.5	39.0	40.1	41.2	40.2	43.0	45.9	45.9	48.1	48.2
300	Mech. Input HP	0.055	0.060	0.106	0.163	0.247	0.348	0.480	0.621	0.910	1.47	2.49	3.73
	Out.Torq., in.lbs.	4770	5970	11200	18600	28600	41600	57800	77600	122000	198000	336000	505000
	Therm. Input HP	0.0530	0.057	0.095	0.154	0.237	0.335	0.455	0.593	0.910	1.31	2.17	3.21
	Output RPM	0.200	0.200	0.200	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204	0.204
	Efficiency %	27.2	31.1	33.6	37.0	37.4	38.7	39.0	40.5	43.4	43.5	43.7	43.9

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	1600	1600	1600	1600	1600	1600	1600	1600	1580	1580	1580
		Ratio Combinations	40 40	40 40	40 40	40 40	40 40	40 40	40 40	40 40	40 39-1/2	40 39-1/2	40 39-1/2
1750	Mech. Input HP	0.281	0.333	0.553	0.821	1.22	1.68	2.23	2.96	4.68	6.66	11.1	17.1
	Out.Torq., in.lbs.	5330	7080	12900	21200	32100	45900	64200	85800	142000	201000	339000	522000
	Therm. Input HP	0.272	0.325	0.532	0.796	1.18	1.64	2.03	2.91	4.55	6.38	10.2	15.6
	Output RPM	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.09	1.11	1.11	1.11
	Efficiency%	33.0	36.9	36.9	44.7	45.9	47.4	49.9	50.3	52.6	53.2	53.6	53.7
1450	Mech. Input HP	0.235	0.276	0.459	0.694	1.02	1.44	1.89	2.50	3.94	5.61	9.34	14.4
	Out.Torq., in.lbs.	5350	7110	12900	21200	32300	46100	64600	86400	143000	203000	343000	528000
	Therm. Input HP	0.227	0.268	0.440	0.670	0.990	1.40	1.71	2.44	3.80	5.33	8.47	13.0
	Output RPM	0.906	0.906	0.906	0.906	0.906	0.906	0.906	0.906	0.906	0.918	0.918	0.918
	Efficiency%	32.8	37.1	40.5	44.0	45.3	46.0	49.1	49.7	52.2	52.7	53.5	53.4
1150	Mech. Input HP	0.188	0.221	0.366	0.560	0.819	1.14	1.54	2.02	3.19	4.54	7.68	11.9
	Out.Torq., in.lbs.	5360	7130	13000	21300	32400	46400	64900	87000	144000	205000	346000	535000
	Therm. Input HP	0.227	0.214	0.349	0.538	0.788	1.10	1.39	1.96	3.06	4.28	6.90	10.6
	Output RPM	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.719	0.728	0.728	0.728
	Efficiency%	32.8	36.8	40.5	43.4	45.2	46.4	47.9	49.1	51.4	52.1	52.0	52.0
865	Mech. Input HP	0.142	0.168	0.282	0.432	0.637	0.897	1.21	1.57	2.50	3.56	5.85	9.06
	Out.Torq., in.lbs.	5380	7150	13000	21400	32600	46600	65300	87600	145000	206000	350000	541000
	Therm. Input HP	0.181	0.163	0.268	0.414	0.610	0.862	1.08	1.51	2.38	3.33	5.20	7.99
	Output RPM	0.541	0.541	0.541	0.541	0.541	0.541	0.541	0.541	0.541	0.547	0.547	0.547
	Efficiency %	32.6	36.4	39.7	42.5	43.9	44.6	46.4	47.9	49.7	50.3	52.0	51.9
575	Mech. Input HP	0.096	0.115	0.194	0.301	0.441	0.623	0.824	1.08	1.75	2.49	4.22	6.54
	Out.Torq., in.lbs.	5400	7170	13100	21500	32700	46900	65700	88100	146000	208000	353000	547000
	Therm. Input HP	0.092	0.111	0.187	0.287	0.420	0.596	0.732	1.04	1.65	2.31	3.72	5.70
	Output RPM	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.364	0.364	0.364
	Efficiency%	31.9	35.5	38.4	40.7	42.4	42.9	45.5	46.3	47.7	48.2	48.3	48.3
300	Mech. Input HP	0.053	0.064	0.109	0.167	0.249	0.347	0.475	0.616	.983	1.40	2.38	3.69
	Out.Torq., in.lbs.	5410	7180	13100	21600	32900	47100	66100	88700	147000	210000	356000	553000
	Therm. Input HP	0.050	0.061	0.103	0.159	0.236	0.330	0.420	0.587	0.923	1.29	2.08	3.18
	Output RPM	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.188	0.190	0.190	0.190
	Efficiency %	30.3	33.3	35.8	38.4	39.3	40.4	41.4	42.8	44.5	45.1	45.0	45.1

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	1800	1800	1800	1800	1800	1770	1770	1770	1770	1770	1770
		Ratio Combinations	30 60	30 60	30 60	30 60	30 60	29-1/2 60	29-1/2 60	29-1/2 60	29-1/2 60	29-1/2 60	29-1/2 60
1750	Mech. Input HP	0.257	0.278	0.457	0.712	1.05	1.46	1.95	2.57	4.02	6.15	10.3	15.4
	Out.Torq., in.lbs.	4690	5880	11000	18200	27800	40400	55800	74600	122000	188000	314000	469000
	Therm. Input HP	0.249	0.265	0.420	0.689	1.03	1.45	1.95	2.55	4.02	5.77	9.60	14.3
	Output RPM	0.972	0.972	0.927	0.972	0.972	0.972	0.988	0.988	0.988	0.988	0.988	0.988
	Efficiency%	28.1	32.6	37.1	39.4	41.0	42.6	44.1	45.6	47.6	47.8	47.9	47.7
1450	Mech. Input HP	0.207	0.236	0.371	0.598	0.895	1.24	1.64	2.15	3.47	5.39	9.06	13.6
	Out.Torq., in.lbs.	4710	5900	11000	18300	28000	40600	56300	75200	122000	190000	319000	476000
	Therm. Input HP	0.200	0.224	0.340	0.576	0.867	1.22	1.63	2.12	3.47	5.00	8.32	12.4
	Output RPM	0.806	0.806	0.806	0.806	0.806	0.806	0.819	0.819	0.819	0.819	0.819	0.819
	Efficiency%	29.0	32.0	38.0	39.0	40.0	41.9	43.7	45.4	45.7	45.8	45.8	45.6
1150	Mech. Input HP	0.170	0.189	0.305	0.487	0.715	1.00	1.32	1.75	2.68	4.21	7.09	10.1
	Out.Torq., in.lbs.	4720	5920	11100	18400	28200	40900	56700	75900	122000	192000	324000	484000
	Therm. Input HP	0.163	0.179	0.278	0.466	0.695	0.980	1.30	1.71	2.68	3.86	6.42	9.60
	Output RPM	0.639	0.639	0.639	0.639	0.639	0.639	0.650	0.650	0.650	0.650	0.650	0.650
	Efficiency%	28.2	31.7	36.8	38.3	40.0	41.4	43.5	44.7	46.9	47.0	47.0	46.7
865	Mech. Input HP	0.132	0.144	0.236	0.374	0.553	0.782	1.03	1.36	2.07	3.29	5.56	8.36
	Out.Torq., in.lbs.	4740	5940	11100	18500	28300	41200	57100	76500	122000	194000	328000	492000
	Therm. Input HP	0.126	0.136	0.214	0.357	0.535	0.760	1.01	1.32	2.07	2.98	4.96	7.40
	Output RPM	0.480	0.480	0.480	0.480	0.480	0.480	0.489	0.489	0.489	0.489	0.489	0.489
	Efficiency %	27.5	31.4	36.0	37.6	39.0	40.1	42.1	43.5	45.7	45.8	45.8	45.6
575	Mech. Input HP	0.089	0.100	0.162	0.261	0.385	0.549	0.714	0.947	1.43	2.30	3.89	5.88
	Out.Torq., in.lbs.	4760	5960	11200	18600	28500	41400	57500	77100	122000	196000	333000	499000
	Therm. Input HP	0.0850	0.0940	0.147	0.248	0.370	0.530	0.692	.910	1.43	2.06	3.43	5.12
	Output RPM	0.319	0.319	0.319	0.319	0.319	0.319	0.325	0.325	0.325	0.325	0.325	0.325
	Efficiency%	27.1	30.2	34.8	36.0	37.5	38.2	40.8	42.0	44.0	44.0	44.0	43.8
300	Mech. Input HP	0.0490	0.0540	0.091	0.145	0.215	0.307	0.403	0.517	0.790	1.28	2.18	3.31
	Out.Torq., in.lbs.	4770	5970	11200	18600	28600	41700	57900	77700	122000	198000	337000	507000
	Therm. Input HP	0.046	0.050	0.082	0.137	0.206	0.295	0.388	0.493	0.790	1.14	1.90	2.84
	Output RPM	0.167	0.167	0.167	0.167	0.167	0.167	0.169	0.169	0.169	0.169	0.169	0.169
	Efficiency %	25.8	29.3	32.5	34.0	35.2	35.9	38.0	40.4	41.5	41.5	41.5	41.2

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
		Ratio Combinations	40 50	40 50	40 50	40 50	40 50	40 50	40 50	40 50	40 50	40 50	40 50
1750	Mech. Input HP	0.320	0.270	0.455	0.706	1.06	1.46	1.96	2.53	3.81	5.84	9.83	14.7
	Out.Torq., in.lbs.	4980	6380	12200	20300	31200	44800	62100	83200	133000	203000	342000	527000
	Therm. Input HP	0.232	0.266	0.434	0.667	1.02	1.40	1.92	2.46	3.81	5.34	8.90	12.7
	Output RPM	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875	0.875
	Efficiency%	28.8	32.9	37.4	40.0	40.8	42.7	43.4	45.7	48.5	48.4	48.4	49.6
1450	Mech. Input HP	0.266	0.219	0.377	0.590	0.890	1.21	1.33	2.12	3.19	4.93	8.33	12.6
	Out.Torq., in.lbs.	5000	6400	12300	20400	31200	45000	62800	83700	133000	205000	346000	534000
	Therm. Input HP	0.192	0.216	0.359	0.555	0.855	1.16	1.29	2.05	3.19	4.47	7.46	10.7
	Output RPM	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725	0.725
	Efficiency%	33.6	33.6	37.5	39.8	40.4	42.7	43.4	45.4	48.0	47.9	47.8	48.8
1150	Mech. Input HP	0.210	0.182	0.305	0.476	0.719	0.993	1.33	1.73	2.56	3.99	6.74	10.2
	Out.Torq., in.lbs.	5020	6420	12300	20500	31400	45300	62800	84300	133000	207000	350000	540000
	Therm. Input HP	0.151	0.179	0.290	0.446	0.687	0.945	1.29	1.66	2.56	3.58	5.97	8.57
	Output RPM	0.575	0.575	0.575	0.575	0.575	0.575	0.575	0.575	0.575	0.575	0.575	0.575
	Efficiency%	29.1	32.1	36.8	39.3	39.8	41.6	43.0	44.5	47.4	47.4	47.4	48.3
865	Mech. Input HP	0.159	0.135	0.235	0.367	0.559	0.766	1.03	1.34	1.97	3.10	5.25	7.95
	Out.Torq., in.lbs.	5040	6430	12400	20600	31500	45500	63200	84800	133000	209000	353000	547000
	Therm. Input HP	0.114	0.132	0.222	0.343	0.532	0.725	0.993	1.28	1.97	2.76	4.61	6.60
	Output RPM	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432
	Efficiency %	29.0	32.8	36.2	38.4	38.7	40.8	42.0	43.4	46.3	46.2	46.2	47.2
575	Mech. Input HP	0.109	*0.161	0.255	0.390	0.531	0.720	0.936	1.35	2.14	3.64	5.52	
	Out.Torq., in.lbs.	5050	0.090	12400	20600	31700	45800	63600	85300	133000	211000	357000	554000
	Therm. Input HP	0.078	6450	0.152	0.237	0.370	0.500	0.689	0.887	1.35	1.89	3.16	4.53
	Output RPM	0.288	0.088	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288
	Efficiency%	28.1	0.288	35.1	37.0	37.0	39.3	40.2	41.6	44.9	44.9	44.8	45.7
300	Mech. Input HP	0.0590	0.050	0.089	0.141	0.220	0.299	0.408	0.531	0.745	1.19	2.01	3.06
	Out.Torq., in.lbs.	5070	6460	12400	20700	31800	46000	63900	85900	133000	212000	360000	560000
	Therm. Input HP	0.042	0.049	0.083	0.131	0.208	0.280	0.388	0.500	0.745	1.04	1.73	2.48
	Output RPM	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
	Efficiency %	27.2	30.5	33.2	34.9	34.3	36.6	37.3	38.5	42.5	42.6	42.6	43.6

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500	2500
	Ratio Combinations	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50	50 50
1750	Mech. Input HP	0.210	0.236	0.393	0.608	0.902	1.23	1.68	2.14	3.21	4.82	8.12	12.3
	Out.Torq., in.lbs.	5020	6400	12300	20400	31300	45100	62500	83800	133000	206000	347000	535000
	Therm. Input HP	0.202	0.232	0.374	0.572	0.866	1.18	1.63	2.07	3.21	4.36	7.26	10.4
	Output RPM	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700	0.700
	Efficiency%	26.5	30.2	34.7	37.3	38.5	40.6	41.4	43.4	46.0	47.4	47.4	48.5
1450	Mech. Input HP	0.176	0.198	0.328	0.510	0.760	1.04	1.40	1.81	2.70	4.21	7.13	10.8
	Out.Torq., in.lbs.	5030	6420	12300	20500	31400	45300	62800	84200	133000	207000	350000	540000
	Therm. Input HP	0.168	0.194	0.311	0.478	0.727	0.993	1.36	1.74	2.70	3.78	6.32	9.06
	Output RPM	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
	Efficiency%	26.4	29.9	34.6	37.0	38.0	39.9	41.1	42.8	45.3	45.3	45.1	46.1
1150	Mech. Input HP	0.139	0.154	0.264	0.414	0.613	0.847	1.13	1.48	2.16	3.39	5.73	8.70
	Out.Torq., in.lbs.	5040	6430	12400	20500	31500	45500	63100	84700	133000	208000	353000	546000
	Therm. Input HP	0.133	0.151	0.250	0.387	0.584	0.803	1.09	1.41	2.16	3.02	5.04	7.24
	Output RPM	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460	0.460
	Efficiency%	26.4	30.4	34.2	36.2	37.5	39.2	40.7	41.9	44.9	45.0	44.9	45.8
865	Mech. Input HP	0.105	0.120	0.204	0.319	0.477	0.655	0.882	1.15	1.67	2.64	4.47	6.80
	Out.Torq., in.lbs.	5060	6440	12400	20600	31600	45600	63400	85100	133000	210000	356000	551000
	Therm. Input HP	0.1	0.117	0.192	0.297	0.453	0.618	0.846	1.09	1.67	2.34	3.90	5.60
	Output RPM	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346
	Efficiency %	26.5	29.6	33.4	35.5	36.4	38.3	39.4	40.8	43.7	43.6	43.6	44.5
575	Mech. Input HP	0.071	0.080	0.141	0.222	0.332	0.456	0.614	0.904	1.16	1.84	3.12	4.76
	Out.Torq., in.lbs.	5070	6450	12400	20700	31700	45800	63700	85600	133000	211000	358000	556000
	Therm. Input HP	0.067	0.0790	0.133	0.206	0.314	0.429	0.586	0.855	1.16	1.62	2.7	3.88
	Output RPM	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
	Efficiency%	26.0	29.1	32.1	31.5	34.9	36.7	37.9	34.5	41.8	41.9	41.9	42.7
300	Mech. Input HP	0.038	0.045	0.079	0.125	0.190	0.258	0.347	0.453	0.652	1.04	1.77	2.70
	Out.Torq., in.lbs.	5080	6470	12500	20700	31800	46000	64000	86000	133000	213000	361000	562000
	Therm. Input HP	0.036	0.044	0.074	0.116	0.179	0.242	0.330	0.426	0.652	0.914	1.52	2.18
	Output RPM	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
	Efficiency %	24.9	27.0	29.9	31.5	31.9	33.9	35.1	36.2	38.8	38.8	38.8	39.6

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
	Ratio Combinations	50 60	50 60	50 60	50 60	50 60	50 60	50 60	50 60	50 60	50 60	50 60	50 60
1750	Mech. Input HP	0.182	0.194	0.325	0.500	0.733	1.01	1.39	1.78	2.70	4.16	7.08	10.6
	Out.Torq., in.lbs.	4730	5920	11100	18400	28200	41000	56800	76100	125000	193000	326000	487000
	Therm. Input HP	0.175	0.183	0.296	0.478	0.720	0.970	1.34	1.78	2.70	3.80	6.37	9.43
	Output RPM	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583	0.583
	Efficiency%	24.0	28.3	31.6	34.1	35.6	37.4	37.8	39.6	42.8	42.9	42.6	42.7
1450	Mech. Input HP	0.154	0.162	0.271	0.418	0.611	0.855	1.16	1.49	2.27	3.51	5.97	8.93
	Out.Torq., in.lbs.	4740	5940	11100	18500	28300	41200	57100	76500	126000	194000	328000	492000
	Therm. Input HP	0.147	0.153	0.246	0.399	0.591	0.831	1.11	1.44	2.27	3.18	5.33	7.90
	Output RPM	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483	0.483
	Efficiency%	23.7	28.1	31.5	33.8	35.6	36.9	37.9	39.5	42.5	42.4	42.2	42.2
1150	Mech. Input HP	0.122	0.131	0.216	0.338	0.493	0.691	0.929	1.19	1.85	2.84	4.86	7.26
	Out.Torq., in.lbs.	4750	5950	11100	18500	28400	41300	57300	76900	127000	196000	331000	496000
	Therm. Input HP	0.117	0.123	0.196	0.321	0.475	0.669	0.888	1.15	1.85	2.56	4.30	6.36
	Output RPM	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383	0.383
	Efficiency%	23.6	27.7	31.3	33.4	35.1	36.4	37.5	39.2	41.7	41.8	41.4	41.6
865	Mech. Input HP	0.092	0.101	0.165	0.286	0.383	0.536	0.720	0.927	1.45	2.23	3.79	5.68
	Out.Torq., in.lbs.	4760	5960	11200	18600	28500	41500	57600	77200	128000	197000	334000	501000
	Therm. Input HP	0.088	0.094	0.149	0.271	0.368	0.517	0.685	0.889	1.45	1.99	3.33	4.93
	Output RPM	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288	0.288
	Efficiency %	23.5	27.0	31.0	29.7	34.1	35.4	36.6	38.1	40.4	40.5	40.2	40.4
575	Mech. Input HP	0.0620	0.067	0.113	0.182	0.268	0.374	0.501	0.645	1.00	1.54	2.63	3.94
	Out.Torq., in.lbs.	4770	5970	11200	18600	28600	41600	57800	77600	128000	198000	336000	506000
	Therm. Input HP	0.0590	0.0630	0.102	0.172	0.257	0.359	0.475	0.616	1.00	1.37	2.29	3.39
	Output RPM	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192	0.192
	Efficiency%	23.4	27.0	30.1	31.1	32.4	33.9	35.1	36.6	38.8	39.1	38.9	39.0
300	Mech. Input HP	0.0330	0.037	0.063	0.102	0.153	0.208	0.284	0.368	.566	0.875	1.49	2.24
	Out.Torq., in.lbs.	4780	5980	11200	18700	28700	41800	58100	78000	129000	199000	339000	510000
	Therm. Input HP	0.031	0.034	0.059	0.096	0.146	0.199	0.268	0.350	.566	0.772	1.29	1.91
	Output RPM	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	Efficiency %	23.0	25.5	27.9	28.9	29.8	31.9	32.4	33.6	36.1	36.2	36.0	36.1

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600
	Ratio Combinations	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60	60 60
1750	Mech. Input HP	0.163	0.175	0.288	0.446	0.652	0.882	1.23	1.59	2.39	3.80	6.45	9.46
	Out.Torq., in.lbs.	4740	5940	11100	18500	28300	41100	57100	76500	122000	194000	328000	492000
	Therm. Input HP	0.156	0.165	0.262	0.425	0.631	0.857	1.18	1.54	2.39	3.44	5.76	8.37
	Output RPM	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486	0.486
	Efficiency%	22.4	26.2	29.7	31.9	33.5	36.0	35.8	37.1	39.4	39.4	39.2	40.1
1450	Mech. Input HP	0.135	0.146	0.239	0.375	0.544	0.735	1.02	1.31	1.96	3.13	5.34	7.98
	Out.Torq., in.lbs.	4750	5950	11100	18500	28400	41300	57300	76800	122000	195000	330000	496000
	Therm. Input HP	0.129	0.138	0.217	0.357	0.525	0.712	0.976	1.26	1.96	2.82	4.73	7.00
	Output RPM	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403	0.403
	Efficiency%	22.5	25.9	29.7	31.5	33.4	35.9	35.9	37.6	39.8	39.9	39.6	39.7
1150	Mech. Input HP	0.109	0.117	0.192	0.307	0.439	0.593	0.822	1.07	1.57	2.52	4.29	6.41
	Out.Torq., in.lbs.	4760	5960	11200	18600	28500	41400	57500	77100	122000	196000	333000	500000
	Therm. Input HP	0.104	0.110	0.174	0.291	0.422	0.573	0.783	1.03	1.57	2.26	3.78	5.58
	Output RPM	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319	0.319
	Efficiency%	22.1	25.8	29.4	30.7	32.9	35.4	35.5	36.5	39.4	39.5	39.3	39.5
865	Mech. Input HP	0.081	0.0900	0.147	0.239	0.338	0.458	0.62.9	0.817	1.22	1.98	3.37	5.06
	Out.Torq., in.lbs.	4770	5970	11200	18600	28600	41500	57700	77400	122000	198000	335000	503000
	Therm. Input HP	0.077	0.084	0.133	0.226	0.324	0.441	0.597	0.782	1.22	1.76	2.95	4.37
	Output RPM	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240	0.240
	Efficiency %	22.3	25.3	29.0	29.7	32.2	34.6	35.0	36.1	38.1	38.1	37.9	38.0
575	Mech. Input HP	0.046	0.060	0.101	0.166	0.238	0.316	0.440	0.570	0.846	1.38	2.35	3.52
	Out.Torq., in.lbs.	4770	5970	11200	18600	28600	41700	57900	77700	122000	199000	337000	507000
	Therm. Input HP	0.0440	0.056	0.091	0.157	0.228	0.303	0.416	0.543	0.846	1.22	2.04	3.02
	Output RPM	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160
	Efficiency%	26.2	24.9	28.0	28.4	30.5	33.5	33.4	34.6	36.5	36.6	36.4	36.5
300	Mech. Input HP	0.029	0.0330	0.056	0.094	0.135	0.178	0.248	0.323	0.473	0.774	1.32	1.98
	Out.Torq., in.lbs.	4780	5980	11200	18700	28700	41800	58100	78000	122000	200000	340000	511000
	Therm. Input HP	0.028	0.030	0.050	0.088	0.129	0.170	0.234	0.307	0.473	0.682	1.14	1.69
	Output RPM	0.083	0.088	0.083	0.083	0.083	0.083	0.083	0.083	0.0833	0.0833	0.0833	0.0833
	Efficiency %	21.3	24.0	26.2	26.3	28.1	31.1	31.0	31.9	34.1	34.1	34.0	34.0

Double Worm
Speed Reducers

WORM SPEED (RPM)	Unit Size	35	40	50	60	70	80	90	100	120	140	170	200
	Center Distance	3.5	4	5	6	7	8	9	10	12	14	17	20
	Total Actual Ratio	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200	4200
	Ratio Combinations	70 60	70 60	70 60	70 60	70 60	70 60	70 60	70 60	70 60	70 60	70 60	70 60
1750	Mech. Input HP	0.107	0.123	0.231	0.357	0.528	0.728	0.969	1.29	1.96	3.13	5.32	7.94
	Out.Torq., in.lbs.	4750	5940	11100	18500	28400	41200	57200	76700	122000	195000	330000	495000
	Therm. Input HP	0.102	0.116	0.210	0.340	0.510	0.706	0.927	1.25	1.96	2.82	4.72	6.98
	Output RPM	0.417	0.417	0.417	0.417	0.417	0.417	0.417	0.417	0.417	0.417	0.417	0.417
	Efficiency%	29.4	31.9	31.8	34.2	35.5	37.5	39.1	39.2	41.2	41.3	41.0	41.2
1450	Mech. Input HP	0.092	0.104	0.195	0.299	0.448	0.616	0.823	1.10	1.66	2.66	4.53	6.78
	Out.Torq., in.lbs.	4750	5950	11200	18500	28400	41400	57400	77000	122000	196000	332000	498000
	Therm. Input HP	0.088	0.097	0.177	0.284	0.431	0.595	0.785	1.06	1.66	2.39	4.00	5.92
	Output RPM	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345	0.345
	Efficiency%	28.1	31.5	31.3	34.0	34.8	36.8	38.2	38.3	40.3	40.3	40.1	40.2
1150	Mech. Input HP	0.075	0.084	0.159	0.243	0.362	0.498	0.668	0.876	1.35	2.17	3.70	5.55
	Out.Torq., in.lbs.	4760	5960	11200	18600	28500	41500	57600	77300	122000	197000	334000	502000
	Therm. Input HP	0.071	0.079	0.144	0.230	0.348	0.480	0.635	0.840	1.35	1.94	3.25	4.81
	Output RPM	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274	0.274
	Efficiency%	27.5	30.7	30.5	33.2	34.2	36.2	37.5	38.3	39.3	39.4	39.2	39.3
865	Mech. Input HP	0.058	0.065	0.123	0.191	0.286	0.389	0.522	0.699	1.04	1.69	2.88	4.32
	Out.Torq., in.lbs.	4770	5970	11200	18600	28600	41600	57800	77600	122000	198000	336000	505000
	Therm. Input HP	0.055	0.061	0.111	0.181	0.274	0.374	0.495	0.668	1.04	1.50	2.51	3.72
	Output RPM	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
	Efficiency %	26.7	29.7	29.7	31.8	32.7	35.0	36.2	36.2	38.3	38.3	38.1	38.2
575	Mech. Input HP	0.0410	0.045	0.086	0.136	0.204	0.274	0.369	0.501	0.730	1.19	2.03	3.05
	Out.Torq., in.lbs.	4780	5980	11200	18600	28700	41700	58000	77800	122000	199000	338000	508000
	Therm. Input HP	0.0390	0.0430	0.078	0.128	0.195	0.263	0.349	0.477	0.730	1.05	1.76	2.61
	Output RPM	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
	Efficiency%	25.3	28.3	28.1	29.9	30.5	33.0	34.1	33.7	36.3	36.4	36.2	36.2
300	Mech. Input HP	0.023	0.026	0.049	0.078	0.118	0.157	0.215	0.289	0.425	0.694	1.18	1.78
	Out.Torq., in.lbs.	4780	5890	11200	18700	28700	41800	58100	78100	122000	200000	340000	511000
	Therm. Input HP	0.022	0.024	0.044	0.073	0.113	0.150	0.203	0.274	0.425	0.611	1.02	1.51
	Output RPM	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.0714	0.0714	0.0714	0.0714
	Efficiency %	23.2	25.7	25.7	27.0	27.5	30.2	30.6	30.6	32.5	32.6	32.6	32.6

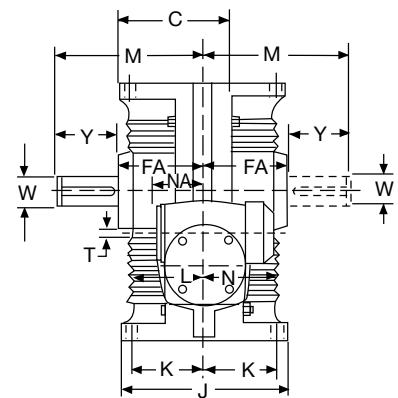
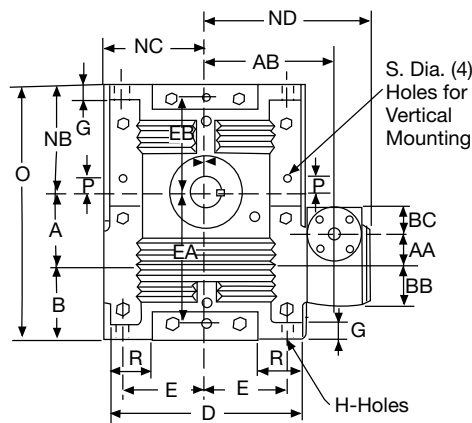
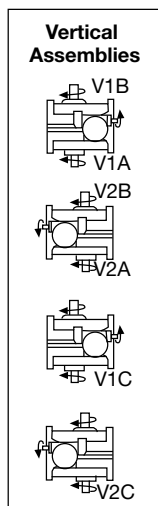
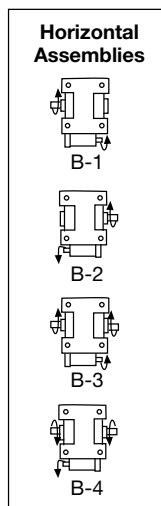
Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Horsepower and Torque Ratings • Double Worm

WORM SPEED (RPM)	Unit Size Center Distance	35	40	50	60	70	80	90	100	120	140	170	200
		3.5	4	5	6	7	8	9	10	12	14	17	20
		Total Actual Ratio	4900	4900	4900	4900	4900	4900	4900	4900	4900	4900	4900
		Ratio Combinations	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70	70 70
1750	Mech. Input HP	0.096	0.118	0.216	0.314	0.482	0.667	0.875	1.12	1.77	2.68	4.52	6.90
	Out. Torq., in. lbs.	4340	5850	10900	17200	26900	38400	53500	71700	116000	176000	309000	472000
	Therm. Input HP	0.092	0.113	0.204	0.314	0.482	0.667	0.875	1.12	1.77	2.59	4.15	6.15
	Output RPM	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357	0.357
	Efficiency %	25.5	28.1	28.6	31.0	31.6	32.6	34.6	36.3	37.1	37.2	38.8	38.8
1450	Mech. Input HP	0.081	0.101	0.182	0.264	0.405	0.560	0.739	0.957	1.48	2.26	3.96	6.04
	Out. Torq., in. lbs.	4340	5860	10900	17200	26900	38400	53500	71900	116000	177000	311000	475000
	Therm. Input HP	0.078	0.096	0.172	0.264	0.405	0.560	0.739	0.955	1.48	2.17	3.62	5.35
	Output RPM	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296	0.296
	Efficiency %	24.9	27.3	28.1	30.6	31.2	32.2	34.0	35.3	36.8	36.8	36.8	37.0
1150	Mech. Input HP	0.066	0.081	0.148	0.214	0.328	0.458	0.603	0.778	1.20	1.84	3.24	4.95
	Out. Torq., in. lbs.	4350	5870	10900	17200	26900	38400	53500	72200	116000	178000	313000	479000
	Therm. Input HP	0.063	0.077	0.139	0.214	0.328	0.458	0.603	0.774	1.20	1.76	2.94	4.35
	Output RPM	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235	0.235
	Efficiency %	24.4	26.9	27.6	29.9	30.5	31.2	33.0	34.5	36.0	36.0	36.0	36.0
865	Mech. Input HP	0.066	0.063	0.126	0.167	0.259	0.356	0.471	0.608	0.934	1.44	2.53	3.87
	Out. Torq., in. lbs.	4360	5880	11000	17200	26900	38400	53600	72400	116000	179000	315000	482000
	Therm. Input HP	0.049	0.060	0.118	0.167	0.259	0.356	0.470	0.603	0.934	1.37	2.28	3.38
	Output RPM	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176
	Efficiency %	16.3	25.9	24.4	28.8	29.1	30.2	31.9	33.4	34.8	34.8	34.9	34.9
575	Mech. Input HP	0.036	0.044	0.080	0.118	0.186	0.253	0.336	0.432	0.655	1.01	1.78	2.72
	Out. Torq., in. lbs.	4360	5890	11000	17200	26900	38400	53800	72700	116000	180000	317000	485000
	Therm. Input HP	0.034	0.042	0.075	0.118	0.186	0.253	0.334	0.427	0.655	0.960	1.60	2.36
	Output RPM	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117	0.117
	Efficiency %	22.4	24.6	25.4	27.1	26.9	28.3	29.8	31.3	33.0	33.0	33.0	33.2
300	Mech. Input HP	0.020	0.025	0.045	0.068	0.108	0.144	0.195	0.249	0.382	0.610	1.08	1.65
	Out. Torq., in. lbs.	4370	5900	11000	17200	26900	38500	54000	73000	116000	180000	319000	488000
	Therm. Input HP	0.019	0.024	0.043	0.068	0.108	0.144	0.193	0.245	0.382	0.575	0.960	1.42
	Output RPM	0.612	0.061	0.061	0.061	0.061	0.061	0.061	0.061	0.0612	0.0612	0.0612	0.0612
	Efficiency %	20.5	22.5	23.3	24.5	24.2	25.9	26.9	28.5	29.5	28.7	28.7	28.8

Ratings based on 1.0 service factor. For A.G.M.A. recommended practice on service factors, see page 11.

Dimensions Type DE • Horizontal and Vertical



Unit Size	WT. LBS.	A	AA	AB	B	BB	BC	C	D	E	EA	EB	FA	G	H	J	K	L	M	N	NA	NB	NC	ND	O	P	Q	R	S	T	U	Keyway	W	Y	Keyway
DE35	120	3 1/2	2	6 5/8	3 3/8	2 1/2	1 1/16	5 3/8	9	3 7/8	6 3/8	4 7/8	4 1/8	7/8	1 1/16	8 1/4	3 3/8	4 1/2	7 1/8	4 9/16	3 1/8	5 3/8	4 3/4	8 7/8	12 1/4	1 1/4	3 7/8	2	9/16	1 1/16	1 5/16	3/16 x 3/32 x 1 1/4	1 1/2	3	3/8 x 3/16 x 2 15/16
DE40	180	4	2	7 3/8	4 1/4	2 1/2	1 1/16	6 3/8	10 1/4	4 1/4	7 1/2	5 1/4	5	7/8	1 3/16	10	4	4 1/2	8 1/2	4 9/16	3 1/8	6	5 1/2	9 3/8	14 1/4	1 3/4	4 1/4	2 3/8	1 1/16	1 1/16	1 5/16	3/16 x 3/32 x 1 1/4	1 3/4	3 1/2	3/8 x 3/16 x 3 7/16

All dimensions are in inches. Use certified prints for construction. The input shaft may be rotated in either direction. Standard gear sets are cut with right hand threads giving relative shaft rotations as shown above. Shaft arrangements are shown above. Desired assembly should be

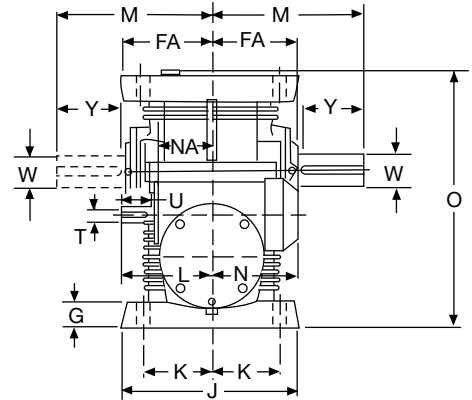
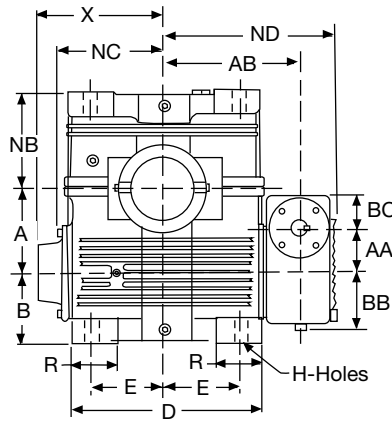
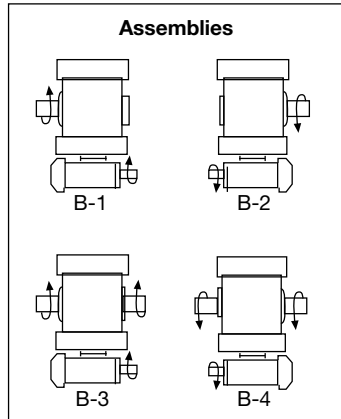
specified when ordering. Standard keys are furnished with units.

▲ Tolerances: 1 1/2" Diameter or Less = +.0000" -.0005"

Over 1 1/2" Diameter = +.000" -.001"

Low input speeds require special order instructions. See introductory section.

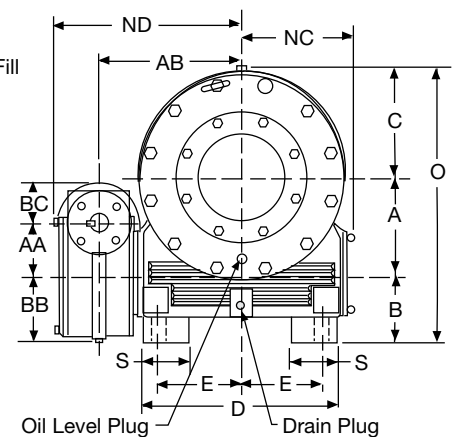
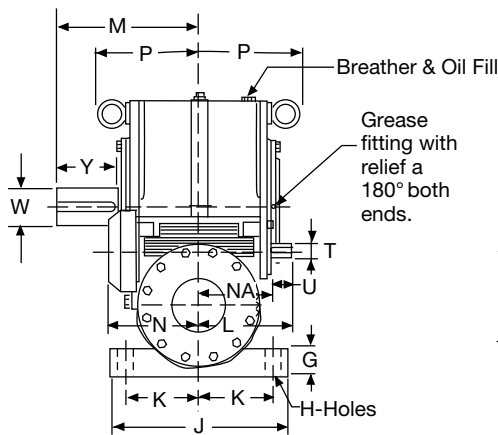
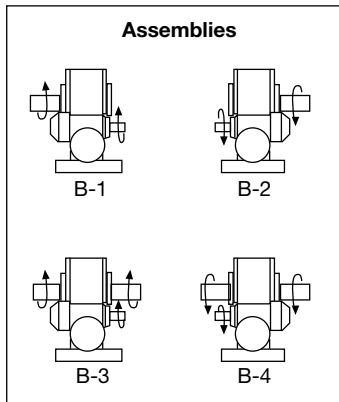
Dimensions Type DE • Horizontal



Unit Size	WT LBS	A	AA	AB	B	BB	BC	D	E	FA	G	H	J	K	L	M	N	NA	NB	NC	ND	O	R	T▲	U	Keyway	W▲	Y	Keyway	X
DE50	210	5	2 1/2	7 7/8	4 5/8	3 3/8	1 7/8	11 3/4	4 3/4	5 1/2	1 1/2	13/16	10 3/4	4 3/8	5 3/8	9 5/8	5 1/8	3 5/8	5 3/4	6 7/8	10 3/8	15 7/8	2	1 1/8	1 3/4	3/16 x 3/32 x 1 11/16	2	4	1/2 x 1/4 x 3 7/8	8 3/16
DE60	335	6	3	9 1/2	5	4 3/8	2 5/16	13 1/2	5 1/4	6 1/8	1 11/16	15/16	12 1/4	4 3/4	6 1/8	10 3/4	5 7/8	4 3/8	6 3/4	7 3/4	12 1/4	18 1/2	3	7/8	1 7/8	3/16 x 3/32 x 1 13/16	2 1/4	4 1/2	1/2 x 1/4 x 4 3/8	9 9/16
DE70	435	7	3 1/2	10 3/8	5 3/8	4 3/4	2 1/2	14 3/4	6	6 3/8	1 11/16	1 1/8	13	5	7	11 1/2	6 3/8	5	7 3/4	8 3/8	13 1/4	20 5/8	2 3/4	1	2	1/4 x 1/8 x 1 15/16	2 1/2	5	5/8 x 5/16 x 4 15/16	10 3/16
DE80	625	8	4	11 5/8	5 3/4	5 1/8	2 7/8	16 1/2	6 3/4	6 1/2	1 3/4	1 3/16	13 1/2	5 3/8	7 3/4	12 1/8	8	5 11/16	8 3/4	9 3/8	14 15/16	23	3	1 1/8	2 1/16	1/4 x 1/8 x 2	2 3/4	5 1/2	5/8 x 5/16 x 5 7/16	11 9/16
DE90	855	9	5	13 1/8	6 1/4	6 1/8	3 3/8	18 3/4	7 3/4	7 5/8	1 7/8	1 7/16	15 1/4	6	8 3/4	14 1/4	8 9/16	6 7/8	9 3/4	10 3/8	16 13/16	25 1/2	3 1/4	1 3/8	2 5/16	5/16 x 5/32 x 2 1/4	3 1/4	6 1/2	3/4 x 3/8 x 6 3/8	13 3/8
DE100	1110	10	5	14 1/4	6 3/4	6 1/8	3 3/8	21	8 3/4	8 5/8	2	1 7/16	17	6 3/8	8 3/4	16	8 9/16	6 7/8	10 3/4	11 11/16	17 15/16	27 7/8	3 1/2	1 3/8	2 5/16	5/16 x 5/32 x 2 1/4	3 5/8	7 1/4	7/8 x 7/16 x 7 3/16	14 3/8
DE120	1530	12	6	16 3/8	7 1/2	7 1/4	3 7/8	24 5/8	10 1/2	8 7/8	2 1/8	1 9/16	18 1/2	7 1/8	10 1/4	17 1/2	10 1/8	7 3/4	13 1/4	13 7/8	20 5/8	33	4	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	4 1/4	8 1/2	1 x 1/2 x 8 3/8	16 1/8
DE140	2360	14	6	19 3/8	9 1/2	7 1/4	3 7/8	27 1/2	11 1/2	10 1/8	2 1/4	1 11/16	21 3/4	8 3/4	10 1/4	19 1/4	10 1/8	7 3/4	15 3/8	15 1/2	23 5/8	39	4 1/2	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	5	9	1 1/4 x 5/8 x 8 5/8	—

Double Worm Speed Reducers

Dimensions Type DEB • Horizontal



Unit Size	WT. LBS.	A	AA	AB	B	BB	BC	C	D	E	G	H	J	K	L	M	N	NA	NC	ND	O	P	S	T▲	U	Keyway	W▲	Y	Keyway
DEB170	4325	17	8	22 3/8	10 1/2	9 1/4	5 3/16	18 1/2	32	13 1/4	3 3/8	1 11/16	24	10 1/4	12 1/2	21 1/2	11 3/4	9 3/8	18 11/16	28 1/8	45 3/4	13 1/4	5 3/4	1 7/8	3 1/8	1/2 x 1/4 x 3 1/16	5 3/4	10	1 1/2 x 3/4 x 9 3/4
DEB200	5960	20	9	25 3/8	11 1/2	10 1/4	6 3/16	21 7/16	36	14 3/4	3 3/8	1 15/16	27	11 1/2	14 1/4	23 3/4	13 13/16	10 3/8	21 3/16	32	52 3/4	14 1/2	6 1/2	2 1/8	3 15/16	1/2 x 1/4 x 3 7/8	6 1/2	11	1 1/2 x 3/4 x 10 1/2

All dimensions are in inches. Use certified prints for construction. The input shaft may be rotated in either direction. Standard gear sets are cut with right hand threads giving relative shaft rotations as shown above. Shaft arrangements are shown above. Desired assembly should be

specified when ordering. Standard keys are furnished with units.

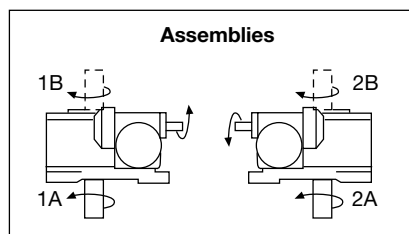
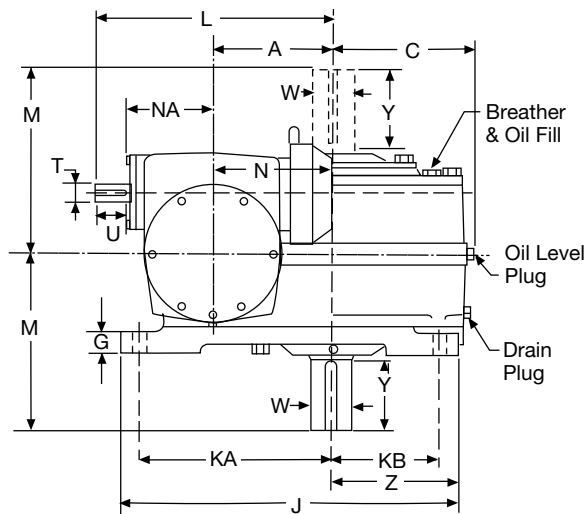
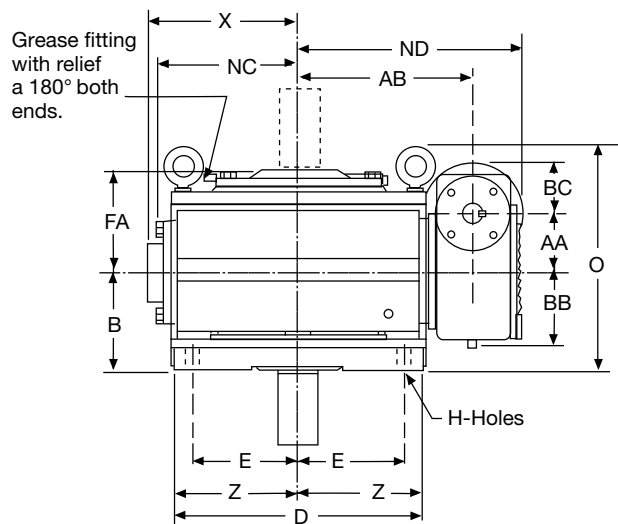
▲ Tolerances: 1 1/2" Diameter or Less = +.0000" -.0005"

Over 1 1/2" Diameter = +.000" -.001"

Low input speeds require special order instructions. See introductory section.

Dimensions Type DV • Vertical

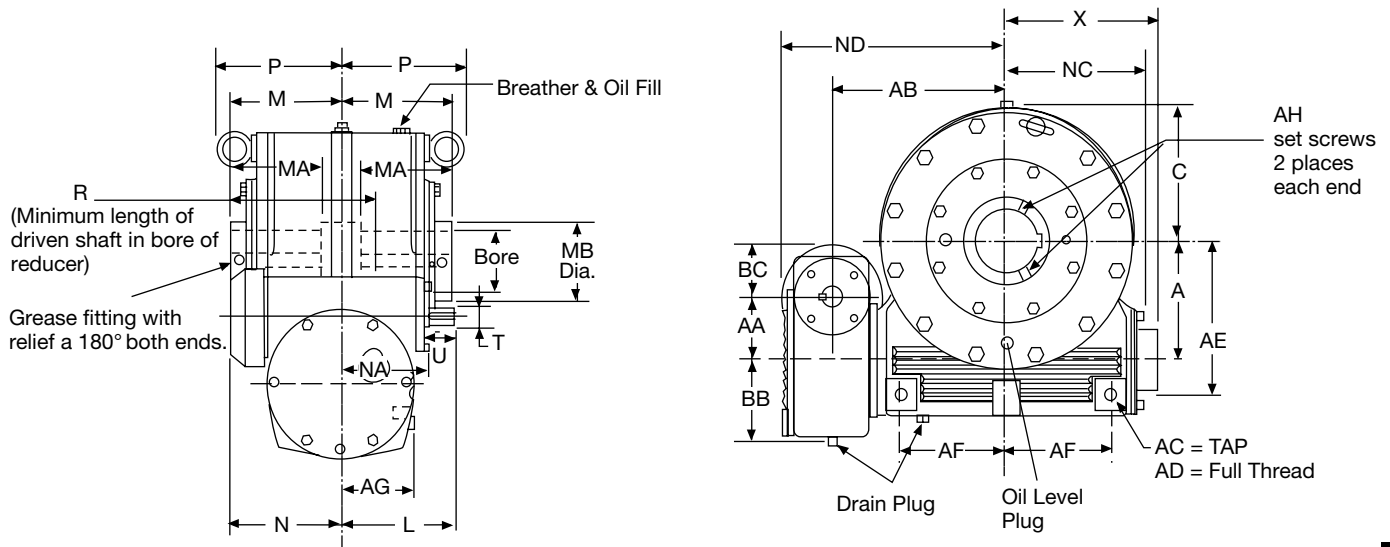
Double Worm
Speed Reducers



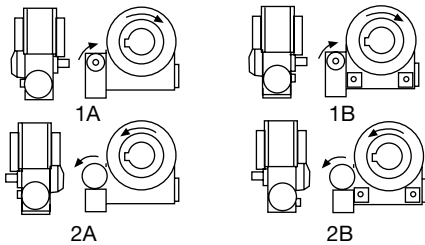
A drywell is standard for vertical assemblies sizes 30-200 only.

Unit Size	WT. LBS.	A	AA	AB	B	BB	BC	C	D	E	FA	G	H	J	KA	KB	L	M	N	NA	NC	ND	O	T▲	U	Keyway	W▲	Y	Keyway	Z	X
DV35	90	3 1/2	2	6 5/8	4 1/8	2 1/2	2 1/8	4 13/16	8 3/8	3 1/2	4	7/8	1 1/16	11 3/4	6 7/8	3 1/2	8	7 1/8	4 9/16	3 1/8	5	8 7/8	9 1/8	1 1/16	1 5/16	3/16 x 3/32 x 1 1/4	1 1/2	3	3/8 x 3/16 x 2 15/16	4 3/16	6 5/8
DV40	125	4	2	7 3/8	5	2 1/2	2 1/8	5 3/8	9 1/4	3 7/8	4 7/8	1 1/8	1 1/16	13 1/8	7 5/8	3 7/8	8 1/2	8 1/2	4 9/16	3 1/8	5 11/16	9 9/8	10 1/2	1 1/16	1 9/16	3/16 x 3/32 x 1 1/4	1 3/4	3 1/2	3/8 x 3/16 x 3 7/16	4 9/8	7 1/2
DV50	285	5	2 1/2	7 7/8	5 5/8	3 5/8	2 1/8	6 5/8	11 1/8	4 3/4	5 1/2	1 1/4	1 3/16	15 3/8	9	4 3/4	10 3/8	9 5/8	5 1/16	3 5/8	6 7/16	10 3/16	12 9/16	1 1/16	1 3/4	3/16 x 3/62 x 1 11/16	2	4	1/2 x 1/4 x 3 7/8	5 9/16	8 3/16
DV60	400	6	3	9 1/2	6 1/4	4 3/8	2 9/16	7 3/4	13 3/8	5 3/4	6 1/8	1 3/8	1 3/16	18 1/8	10 1/2	5 3/4	12 1/8	10 3/4	5 7/8	4 3/16	7 3/4	12 1/4	13 7/16	7/8	1 7/8	3/16 x 3/62 x 1 13/16	2 1/4	4 1/2	1/2 x 1/4 x 4 3/8	6 11/16	9 9/16
DV70	550	7	3 1/2	10 3/8	6 1/2	4 3/4	2 9/16	8 3/8	14 5/8	6 1/4	6 7/16	1 3/8	1 5/16	20 1/8	11 3/4	6 1/4	14	11 1/2	6 9/16	5	8 3/8	13 1/4	14	1	2	1/4 x 1/8 x 1 15/16	2 1/2	5	5/8 x 5/16 x 4 15/16	7 5/16	10 3/16
DV80	690	8	4	11 5/8	6 5/8	5 1/8	3 5/16	9 1/2	16 1/2	7	6 1/2	1 1/2	1 1/16	22 1/4	12 3/4	7	15 3/4	12 1/8	8	5 11/16	9 3/8	14 15/16	14 7/8	1 1/8	2 1/16	1/4 x 1/8 x 2	2 3/4	5 1/2	5/8 x 5/16 x 5 7/16	8 1/4	11 9/16
DV90	890	9	5	13 1/8	7 3/4	6 1/8	3 11/16	10 1/2	18 1/2	7 7/8	7 5/8	1 5/8	1 3/16	25	14 3/8	7 7/8	17 3/4	14 1/4	8 9/16	6 7/16	10 3/8	16 13/16	17	1 3/8	2 5/16	5/16 x 5/32 x 2 1/4	3 1/4	6 1/2	3/4 x 3/8 x 6 3/8	9 1/4	13 3/8
DV100	1090	10	5	14 1/4	8 3/4	6 1/8	3 11/16	11 5/8	20 3/4	9	8 5/8	1 3/4	1 3/16	27 1/4	15 1/2	9	18 3/4	16	8 9/16	6 7/16	11 11/16	17 15/16	18 1/2	1 3/8	2 9/16	5/16 x 5/32 x 2 1/4	3 5/8	7 1/4	7/8 x 7/16 x 7 3/16	10 3/8	14 3/8
DV120	1760	12	6	16 3/8	9	7 1/4	4 1/8	13 5/8	24 1/4	10 3/8	8 7/8	2 1/8	1 5/16	32 3/8	18 1/2	10 3/8	22 1/4	17 1/2	10 1/8	7 3/4	13 7/16	20 5/8	19 1/2	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	4 1/4	8 1/2	1 x 1/2 x 8 3/8	12 1/8	16 1/8
DV140	2510	14	6	19 3/8	10 1/4	7 1/4	4 1/8	15 5/8	27 1/2	12	9 7/8	2 1/4	1 5/16	37 1/2	22	12	24 1/4	19 1/4	10 1/8	7 3/4	16	23 5/8	21 3/4	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	5	9	1 1/4 x 5/8 x 8 5/8	13 3/4	—
DV170	4160	17	8	22 3/8	11 1/2	9 1/4	5 3/16	18 1/2	33	14 1/2	11 1/8	2 1/2	1 9/16	44 3/4	26 1/4	14 1/2	29 1/2	21 1/2	11 3/4	9 3/8	18 11/16	28 1/8	24 3/4	1 7/8	3 1/8	1/2 x 1/4 x 3 1/16	5 3/4	10	1 1/2 x 3/4 x 9 3/4	16 1/2	—
DV200	5630	20	9	25 3/8	12 3/4	10 1/4	6 3/16	21 7/16	39	17	12 7/8	2 3/4	1 9/16	53	31	17	34 1/4	23 3/4	13 13/16	10 3/8	21 3/16	32	27 1/4	2 1/8	3 15/16	1/2 x 1/4 x 3 7/8	6 1/2	11	1 1/2 x 3/4 x 10 1/2	19 1/2	—

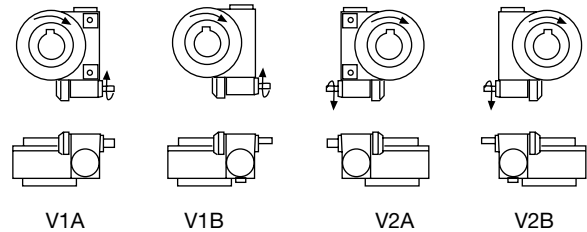
Dimensions Type DSM • Horizontal and Vertical



Horizontal Assemblies



Vertical Assemblies



A drywell is standard for vertical assemblies sizes 60-200 only.

Unit Size	WT. LBS.	A	AA	AB	AC	AD	AE	AF	AG	AH	BB	BC	C	L	M	MA	MB	N	NA	NC	ND	P	R	T ▲	U	Keyway	Bore	Keyway	X
DSM35	115	3 1/2	2	6 5/8	1 1/2-13	3/4	5 1/8	3 1/2	3	3/8-16	2 1/2	2 1/8	4 13/16	4 1/2	4 11/16	4 1/8	3 1/8	4 9/16	3 1/8	5	8 7/8	5	5 3/4	1 1/16	1 5/16	3/16 x 3/32 x 1 1/4	21885/21905	1/2 x 1/4	6 5/8
DSM40	165	4	2	7 3/8	5/8-11	1	5 3/4	3 7/8	3 1/2	3/8-16	2 1/2	2 1/8	5 3/8	4 1/2	5 5/16	4 1/16	3 1/2	4 9/16	3 1/8	5 11/16	9 5/8	5 1/2	6 7/16	1 1/16	1 5/16	3/16 x 3/32 x 1 1/4	2438/2440	5/8 x 5/16	7 1/2
DSM50	260	5	2 1/2	7 7/8	3/4-10	1 1/4	7	4 3/4	4	1/2-13	3 5/8	2 1/8	6 5/8	5 3/8	5 7/8	5 1/4	4 3/16	5 1/16	3 5/8	6 7/16	10 3/16	6 15/16	7	1 1/16	1 3/4	3/16 x 3/32 x 1 11/16	2938/2940	3/4 x 3/8	8 3/16
DSM60	360	6	3	9 1/2	3/4-10	1 1/8	9 1/2	5 3/4	4 1/4	1/2-13	4 3/8	2 9/16	7 3/4	6 1/8	6 1/2	5 3/4	4 3/4	5 7/8	4 3/16	7 3/4	12 1/4	7 3/16	7 3/4	7/8	1 7/8	3/16 x 3/32 x 1 13/16	3438/3440	7/8 x 7/16	9 9/16
DSM70	500	7	3 1/2	10 3/8	7/8-9	1 3/8	9 3/8	6 1/4	4 1/2	1/2-13	4 3/4	2 9/16	8 3/8	7	6 3/4	5 7/8	5 1/2	6 9/16	5	8 3/8	13 1/4	7 1/2	8 1/8	1	2	1/4 x 1/8 x 1 15/16	3938/3940	1 x 1/2	10 3/16
DSM80	645	8	4	11 5/8	1-8	1 1/2	10 1/4	7	4 5/8	1/2-13	5 1/8	3 5/16	9 1/2	7 3/4	7 1/4	6 1/4	6 1/4	8	5 11/16	9 3/8	14 15/16	8 1/4	8 3/4	1 1/8	2 1/16	1/4 x 1/8 x 2	4438/4440	1 x 1 1/2	11 9/16
DSM90	840	9	5	13 1/8	1-8	1 1/2	11 1/2	7 7/8	5 5/8	1/2-13	6 1/8	3 11/16	10 1/2	8 3/4	8 1/4	7 1/8	7	8 9/16	6 7/16	10 3/8	16 13/16	9 1/4	9 7/8	1 3/8	2 5/16	5/16 x 5/32 x 2 1/4	4938/4940	1 1/4 x 7/16	13 3/8
DSM100	1060	10	5	14 1/4	1-8	1 1/2	12 3/4	9	6 1/8	5/8-11	6 1/8	3 11/16	11 5/8	8 3/4	9 1/4	8	7 1/2	8 9/16	6 7/16	11 11/16	17 15/16	9 3/4	11	1 3/8	2 5/16	5/16 x 5/32 x 2 1/4	5438/5440	1 1/4 x 7/16	14 3/8
DSM120	1460	12	6	16 3/8	1 1/4-7	2	15 1/4	10 3/8	6 1/2	5/8-11	7 1/4	4 1/8	13 5/8	10 1/4	9 3/4	8 3/8	8	10 1/16	7 3/4	13 7/16	20 3/8	10 1/2	11 5/8	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	6000/6002	1 1/2 x 1/2	16 1/8
DSM140	2060	14	6	19 3/8	1 1/4-7	2 1/8	18 1/2	12	7 1/2	5/8-11	7 1/4	4 1/8	15 5/8	10 1/4	10 3/4	9	8	10 1/16	7 3/4	16	23 3/8	11 1/2	13	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	6000/6002	1 1/2 x 1/2	—
DSM170	3275	17	8	22 3/8	1 1/2-6	2 1/4	22	14 1/2	8 1/2	5/8-11	9 1/4	5 3/8	18 1/2	12 1/2	12 1/4	10 1/4	9 1/4	11 3/4	9 3/8	18 11/16	28 1/8	13 1/4	14 3/4	1 7/8	3 1/8	1/2 x 1/4 x 3 1/8	6500/6502	1 1/2 x 1/2	—
DSM200	4760	20	9	25 3/8	1 1/2-6	2 1/4	26	16 1/4	9 1/2	5/8-11	10 1/4	6 3/8	21 7/16	14 1/4	13 1/2	11 1/2	9 1/4	13 13/16	10 3/8	21 3/8	32	14 1/2	16	2 1/8	3 15/16	1/2 x 1/4 x 3 7/8	6500/6502	1 1/2 x 1/2	—

All dimensions are in inches. Use certified prints for construction. The input shaft may be rotated in either direction. Standard gear sets are cut with right hand threads giving relative shaft rotations as shown above. Shaft arrangements are shown above. Desired assembly should be specified when ordering. Standard keys are furnished with units.

▲ Tolerances: 1 1/2" Diameter or Less = +.0000" -.0005"

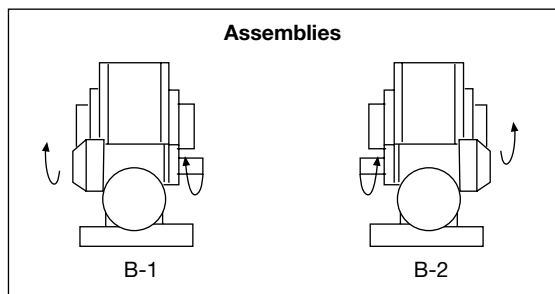
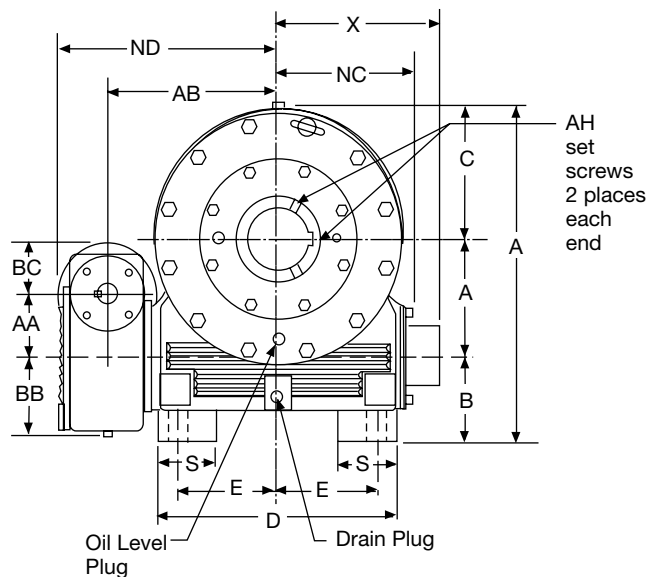
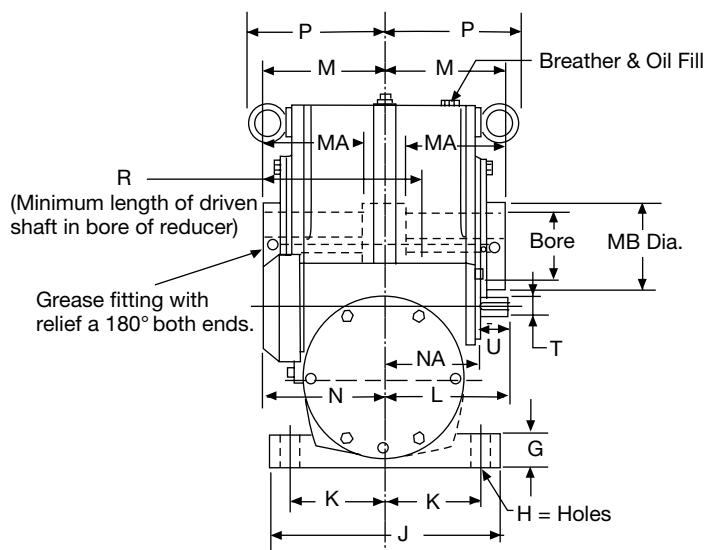
Over 1 1/2" Diameter = +.000" -.001"

Low input speeds require special order instructions. See introductory section.

A drywell is standard for vertical assemblies 60-200 only.

Dimensions Type DSMB • Base Mount

Double Worm
Speed Reducers



Unit Size	WT. LBS.	A	AA	AB	AH	B	BB	BC	C	D	E	G	H	J	K	L	M	MA	MB	N	NA	NC	ND	O	P	R	S	T	U	Keyway	Bore	Keyway	X
DSMB35	142	3 1/2	2	6 5/8	3/8-16	3 3/8	2 1/2	2 1/8	4 13/16	9 1/4	3 7/8	1 1/8	1 1/16	9	3 3/4	4 1/2	4 11/16	4 1/8	3 1/8	4 9/16	3 1/8	5	8 7/8	11 11/16	5	5 3/4	2 1/4	1 1/16	1 1/8	3/16 x 3/32 x 1 1/4	21885 / 21905	1/2 x 1/4	6 5/8
DSMB40	215	4	2	7 3/8	3/8-16	4	2 1/2	2 1/8	5 5/8	10 3/8	4 1/4	1 1/2	1 3/16	10 1/2	4 3/8	4 1/2	5 5/8	4 11/16	3 1/2	4 9/16	3 1/8	5 11/16	9 5/8	13 3/8	5 1/2	6 7/8	2 1/2	1 1/16	1 1/8	3/16 x 3/32 x 1 1/4	2438 / 2440	5/8 x 5/16	7 1/2
DSMB50	320	5	2 1/2	7 7/8	1/2-13	4 5/8	3 3/8	2 1/8	7 1/2	11 1/2	4 3/4	1 3/4	1 3/16	12	4 7/8	5 5/8	5 7/8	5 1/4	4 5/8	5 1/8	3 3/8	6 7/8	10 3/8	17 1/8	6 15/16	7	3	1 1/16	1 3/4	3/16 x 3/32 x 1 11/16	2938 / 2940	3/4 x 3/8	8 3/8
DSMB60	455	6	3	9 1/2	1/2-13	5	4 3/8	2 9/16	8 3/8	13 1/4	5 1/4	1 1/2	1 3/16	13	5 1/4	6 1/8	6 1/2	5 3/4	4 3/4	5 7/8	4 3/8	7 3/4	12 1/4	19 3/8	7 3/8	7 3/4	3	7/8	1 7/8	3/16 x 3/32 x 1 13/16	3438 / 3440	7/8 x 7/16	9 9/16
DSMB70	615	7	3 1/2	10 3/8	1/2-13	5 5/8	4 3/4	2 9/16	9 1/4	14 3/4	6	2	1 1/16	14	5 5/8	7	6 3/4	5 7/8	5 1/2	6 9/16	5	8 3/8	13 1/4	21 5/8	7 1/2	8 1/8	3 1/2	1	2	1/4 x 1/8 x 1 15/16	3938 / 3940	1 1/2 x 1/2	10 7/8
DSMB80	775	8	4	11 5/8	1/2-13	5 5/8	5 1/8	3 5/8	10 1/2	16 1/2	6 3/4	2 1/4	1 3/16	14 1/2	6	7 3/4	7 1/4	6 1/4	6 1/4	8	5 11/16	9 3/8	14 15/16	24 1/4	8 1/4	8 3/4	4	1 1/8	2 1/8	1/4 x 1/8 x 2	4438 / 4440	1 x 1/2	11 5/8
DSMB90	1005	9	5	13 1/8	1/2-13	6 1/4	6 1/8	3 11/16	11 3/8	18 3/4	7 3/4	2 1/2	1 7/16	17 1/2	7 1/4	8 3/4	8 1/4	7 1/8	7	8 9/16	6 7/8	10 3/8	16 13/16	26 5/8	9 1/4	9 7/8	4	1 3/8	2 5/8	5/16 x 3/32 x 2 1/4	4938 / 4940	1 1/4 x 7/16	13 3/8
DSMB100	1255	10	5	14 1/4	5/8-11	6 3/4	6 1/8	3 11/16	12 5/8	21	8 3/4	2 7/8	1 7/16	18	7 1/2	8 3/4	9 1/4	8	7 1/2	8 9/16	6 7/8	11 11/16	17 15/16	29 3/8	9 3/4	11	4 1/4	1 3/8	2 9/16	5/16 x 3/32 x 2 1/4	5438 / 5440	1 1/4 x 7/16	14 3/8
DSMB120	1930	12	6	16 3/8	5/8-11	7 1/2	7 1/4	4 1/8	14 3/8	24 1/2	10 1/2	2 3/4	1 9/16	21	9	10 1/4	9 3/4	8 3/8	8	10 1/16	7 3/4	13 7/16	20 5/8	34 1/8	10 1/2	11 5/8	4 1/2	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	6000 / 6002	1 1/2 x 1/2	16 1/8
DSMB140	2745	14	6	19 3/8	5/8-11	9 1/2	7 1/4	4 1/8	16 3/8	27 1/2	11 1/2	3	1 11/16	21 3/4	9 1/4	10 1/4	10 3/4	9	8	10 1/16	7 3/4	16	23 3/8	40 1/8	11 1/2	13	5	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	6000 / 6002	1 1/2 x 1/2	-
DSMB170	4085	17	8	22 3/8	5/8-11	10 1/2	9 1/4	5 3/8	19 1/2	32	13 1/4	3 3/8	1 11/16	24	10 1/4	12 1/2	12 1/4	10 1/4	9 1/4	11 3/4	9 3/8	18 11/16	28 1/8	47	13 1/4	14 3/4	5 1/8	1 7/8	3 1/8	1/2 x 1/4 x 3 1/8	6500 / 6502	1 1/2 x 1/2	-
DSMB200	5620	20	9	25 3/8	5/8-11	11 1/2	10 1/4	6 3/8	22 1/2	36	14 3/4	3 3/8	1 15/16	27	11 1/2	14 1/4	13 1/2	11 1/2	9 1/4	13 13/16	10 3/8	21 3/8	32	54	14 1/2	16	6 1/2	2 1/8	3 15/16	1/2 x 1/4 x 3 7/8	6500 / 6502	1 1/2 x 1/2	-

All dimensions are in inches. Use certified prints for construction. The input shaft may be rotated in either direction. Standard gear sets are cut with right hand threads giving relative shaft rotations as shown above. Shaft arrangements are shown above. Desired assembly should be

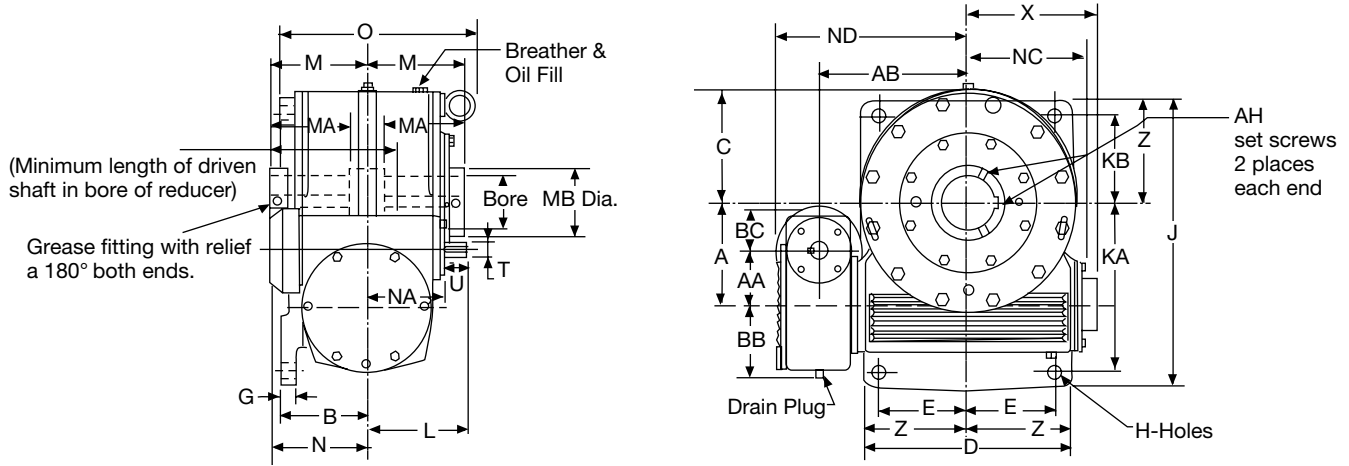
specified when ordering. Standard keys are furnished with units.

▲ Tolerances: 1 1/2" Diameter or Less = +.0000" -.0005"

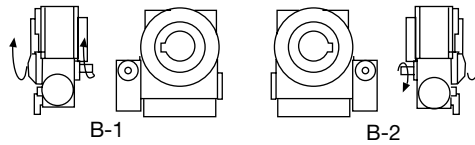
Over 1 1/2" Diameter = +.000" -.001"

Low input speeds require special order instructions. See introductory section.

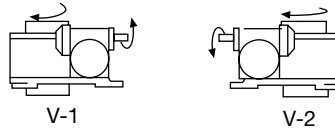
Dimensions Type DSMF • Wall Mounted and Vertical



Wall Mounted Assemblies



Vertical Assemblies



A drywell is standard for vertical assemblies sizes 60-200 only.

Unit Size	WT LBS	A	AA	AB	AH	B	BB	BC	C	D	E	G	H	J	KA	KB	L	M	MA	MB	N	NA	NC	ND	O	R	T▲	U	Keyway	Bore	Keyway	Z	X
DSMF35	130	3 1/2	2	6 5/8	3/8-16	4 1/8	2 1/2	2 1/8	4 13/16	8 3/8	3 1/2	7/8	1 1/16	11 3/4	6 7/8	3 1/2	4 1/2	4 11/16	4 1/8	3 1/8	4 3/8	3 1/8	5	8 7/8	9 1/8	5 3/4	1 1/16	1 5/8	3/16 x 3/32 x 1 1/4	2.1885 / 2.1905	1/2 x 1/4	4 3/16	6 5/8
DSMF40	190	4	2	7 3/8	3/8-16	5	2 1/2	2 1/8	5 3/8	9 1/4	3 7/8	1 1/8	1 1/16	13 3/8	7 5/8	3 7/8	4 1/2	5 5/8	41 1/16	3 1/2	4 3/8	3 1/8	5 11/16	9 5/8	10 1/2	6 7/8	1 1/16	1 5/8	3/16 x 3/32 x 1 1/4	2.438 / 2.440	5/8 x 5/16	4 5/8	7 1/2
DSMF50	285	5	2 1/2	7 7/8	1/2-13	5 5/8	3 3/8	2 1/8	7 1/2	11 1/8	4 3/4	1 1/4	1 3/16	15 3/8	9	4 3/4	5 3/8	5 7/8	5 1/4	4 3/8	5 1/8	3 3/8	6 7/8	10 3/8	12 3/8	7	1 1/16	1 3/4	3/16 x 3/32 x 1 11/16	2.938 / 2.940	3/4 x 3/8	5 9/16	8 3/16
DSMF60	420	6	3	9 1/2	1/2-13	6 1/4	4 3/8	2 9/16	8 5/8	13 3/8	5 3/4	1 3/8	1 3/16	18 1/8	10 1/2	5 3/4	6 1/8	6 1/2	5 3/4	4 3/4	5 7/8	4 3/8	7 3/4	12 1/4	13 7/16	7 3/4	7/8	1 7/8	3/16 x 3/32 x 1 13/16	3.438 / 3.440	7/8 x 7/16	6 11/16	9 9/16
DSMF70	560	7	3 1/2	10 3/8	1/2-13	6 1/2	4 3/4	2 9/16	9 1/4	14 3/8	6 1/4	1 3/8	1 5/16	20 1/8	11 3/4	6 1/4	7	6 3/4	5 7/8	5 1/2	6 9/16	5	8 3/8	13 1/4	14	8 1/8	1	2	1/4 x 1/8 x 1 15/16	3.938 / 3.940	1 x 1/2	7 5/16	10 9/16
DSMF80	705	8	4	11 5/8	1/2-13	6 5/8	5 1/8	3 3/16	10 1/2	16 1/2	7	1 1/2	1 1/16	22 1/4	12 3/4	7	7 3/4	7 1/4	6 1/4	6 1/4	8	5 11/16	9 3/8	14 15/16	14 7/8	8 3/4	1 1/8	2 1/16	1/4 x 1/8 x 2	4.438 / 4.440	1 x 1/2	8 1/4	11 9/16
DSMF90	910	9	5	13 1/8	1/2-13	7 3/4	6 1/8	3 11/16	11 3/8	18 1/2	7 7/8	1 5/8	1 3/16	25	14 3/8	7 7/8	8 3/4	8 1/4	7 1/8	7	8 9/16	6 7/8	10 3/8	16 13/16	17	9 7/8	1 3/8	2 5/16	5/16 x 5/32 x 2 1/4	4.938 / 4.940	1 1/4 x 7/16	9 1/4	13 3/8
DSMF100	1130	10	5	14 1/4	5/8-11	8 3/4	6 1/8	3 11/16	12 5/8	20 3/4	9	1 3/4	1 3/16	27 1/4	15 1/2	9	8 3/4	9 1/4	8	7 1/2	8 9/16	6 7/8	11 11/16	17 15/16	18 1/2	11	1 3/8	2 5/16	5/16 x 5/32 x 2 1/4	5.438 / 5.440	1 1/4 x 7/16	10 3/8	14 3/8
DSMF120	1760	12	6	16 3/8	5/8-11	9	7 1/4	4 1/8	14 5/8	24 1/4	10 3/8	2 1/8	1 5/16	32 3/8	18 1/2	10 3/8	10 1/4	9 3/4	8 3/8	8	10 1/16	7 3/4	13 7/16	20 5/8	19 1/2	11 5/8	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	6.000 / 6.002	1 1/2 x 1/2	12 1/8	16 1/8
DSMF140	2560	14	6	19 3/8	5/8-11	10 1/4	7 1/4	4 1/8	16 5/8	27 1/2	12	2 3/4	1 9/16	37 1/2	22	12	10 1/4	10 3/4	9	8	10 1/16	7 3/4	16	23 3/8	21 3/4	13	1 1/2	2 11/16	3/8 x 3/16 x 2 5/8	6.000 / 6.002	1 1/2 x 1/2	13 3/4	-
DSMF170	3825	17	8	22 3/8	5/8-11	11 1/2	9 1/4	5 3/16	19 1/2	33	14 1/2	2 1/2	1 9/16	44 3/4	26 1/4	14 1/2	12 1/2	12 1/4	10 1/4	9 1/4	11 3/4	9 1/8	18 11/16	28 1/8	24 3/4	14 3/4	1 7/8	3 1/8	1/2 x 1/4 x 3 1/8	6.500 / 6.502	1 1/2 x 1/2	16 1/2	-
DSMF200	5260	20	9	25 3/8	5/8-11	12 3/4	10 1/4	6 3/16	22 1/2	39	17	2 3/4	1 9/16	53	31	17	14 1/4	13 1/2	11 1/2	9 1/4	13 13/16	10 3/8	21 3/16	32	27 1/4	16	2 1/8	3 15/16	1/2 x 1/4 x 3 7/8	6.500 / 6.502	1 1/2 x 1/2	19 1/2	-

All dimensions are in inches. Use certified prints for construction. The input shaft may be rotated in either direction. Standard gear sets are cut with right hand threads giving relative shaft rotations as shown above. Shaft arrangements are shown above. Desired assembly should be

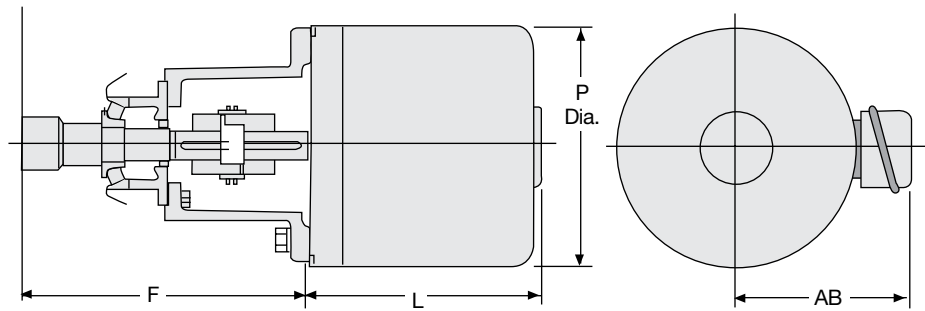
specified when ordering. Standard keys are furnished with units.

▲ Tolerances: 1 1/2" Diameter or Less = +.0000" -.0005"

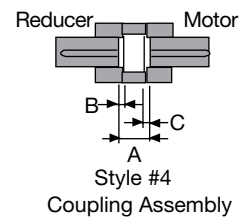
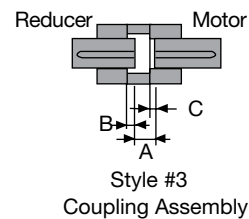
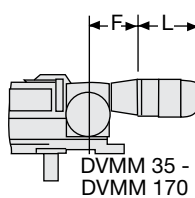
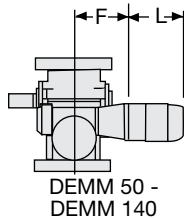
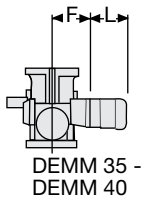
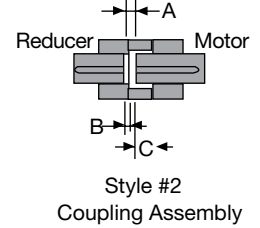
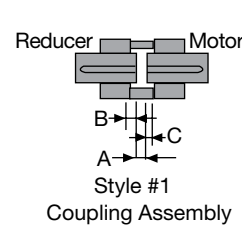
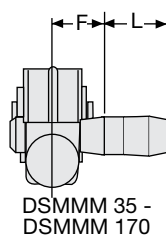
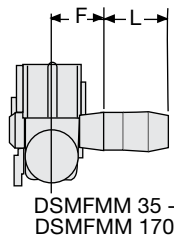
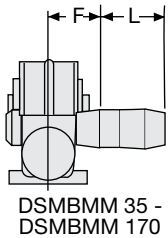
Over 1 1/2" Diameter = +.000" -.001"

Low input speeds require special order instructions. See introductory section.

Double Reduction Worm Gear Speed Reducers - Motorized



Double Worm Speed Reducers



Dimensions - inches single worm reduction units with "C" flange motor.
Mounting dimensions for type DEMM 35 - 140, DVMM 35 - 170
DSMFMM 35 - 170, DSMMM 35 - 170, DSMBMM 35 - 170.

T.E.F.C. Motor					Unit Size 35 & 40						Unit Size 50						Unit Size 60						Unit Size 70						Unit Size 80					
Motor Frame	AB	L	P	WT. LBS.	CPLG Size	Style Assy	A	B	C	F	CPLG Size	Style Assy	A	B	C	F	CPLG Size	Style Assy	A	B	C	F	CPLG Size	Style Assy	A	B	C	F	CPLG Size	Style Assy	A	B	C	F
56C		11 7/16	7 1/8	36	L-090	4	13/16	3/16	1/8	7 3/8	L-090	3	7/16	1/16	0	7 7/8	L-095	2	5/8	1/8	0	8 13/16	L-095	1	1/2	0	0	9 9/16	L-099	1	7/16	5/16	0	10 1/4
56CZ		11 7/16	7 1/8	36	L-095	2	5/8	1/8	0	7 3/8	L-095	2	1/4	0	1/4	7 7/8	L-095	3	7/16	1/16	0	8 13/16	L-095	3	5/16	3/16	0	9 9/16	L-099	1	1/4	1/2	0	10 1/4
143TC	6	10 3/8	7 1/8	30	L-095	2	3/4	1/4	0	7 3/8	L-095	2	3/8	0	1/8	7 7/8	L-095	2	9/16	1/16	0	8 13/16	L-095	3	7/16	1/16	0	9 9/16	L-099	1	3/8	3/8	0	10 1/4
145TC	6	11 3/8	7 1/8	34	L-095	2	3/4	1/4	0	7 3/8	L-095	2	3/8	0	1/8	7 7/8	L-095	2	9/16	1/16	0	8 13/16	L-095	3	7/16	1/16	0	9 9/16	L-099	1	1/4	1/2	0	10 1/4
182TC	7	12 3/4	9 3/16	56													L-099	2	7/16	0	5/16	9 3/16	L-099	2	5/16	0	7/16	9 15/16	L-099	1	1/4	1/2	0	10 5/8
184TC	7	13 3/4	9 3/16	70													L-099	2	7/16	0	5/16	9 3/16	L-099	2	5/16	0	7/16	9 15/16	L-099	1	1/4	1/2	0	10 5/8
213TC	8 13/16	15 3/8	11 1/4	141													L-100	2	5/16	0	7/16	9 9/16	L-100	2	3/16	0	9/16	10 7/16	L-100	2	1/8	0	5/8	11
215TC	8 13/16	16 7/8	11 1/4	176													L-100	2	5/16	0	7/16	9 9/16	L-100	2	3/16	0	9/16	10 5/16	L-100	2	1/8	0	5/8	11

T.E.F.C. Motor					Unit Size 90 & 100						Unit Size 120 & 140						Unit Size 170					
Motor Frame	AB	L	P	WT. LBS.	CPLG size	Style Assy	A	B	C	F	CPLG size	Style Assy	A	B	C	F	CPLG size	Style Assy	A	B	C	F
143TC	6	10 3/8	7 1/8	30	L-100	1	1/8	5/8	0	11												
145TC	6	11 3/8	7 1/8	34	L-100	1	1/8	5/8	0	11												
182TC	7	12 3/4	9 3/16	56	L-100	4	1 1/4	1/4	1/4	12 5/8	L-110	4	1 15/16	9/16	1/2	14 13/16	L-150	2	1 1/4	1/4	0	16 3/8
184TC	7	13 3/4	9 3/16	70	L-100	4	1 1/4	1/4	1/4	12 5/8	L-110	4	1 15/16	9/16	1/2	14 13/16	L-150	2	1 1/4	1/4	0	16 3/8
213TC	8 13/16	15 3/8	11 1/4	141	L-110	1	3/4	1/8	0	12 5/8	L-110	4	1 7/16	5/16	1/4	14 13/16	L-150	1	3/4	1/4	0	16 3/8
215TC	8 13/16	16 7/8	11 1/4	176	L-110	1	3/4	1/8	0	12 5/8	L-110	4	1 7/16	5/16	1/4	14 13/16	L-150	1	3/4	1/4	0	16 3/8
254TC	10 1/16	18 9/16	13 1/2	252	L-150	2	1/8	0	7/8	12 5/8	L-150	1	13/16	3/16	0	14 13/16	L-150	1	1/8	7/16	7/16	16 3/8
256TC	10 1/16	20 5/16	13 1/2	302	L-150	2	1/8	0	7/8	12 5/8	L-150	1	13/16	3/16	0	14 13/16	L-150	1	1/8	7/16	7/16	16 3/8

*Motor dimensions will vary slightly with make of motor. Dimensions shown are for totally enclosed fan cooled motor. Open, drip proof or totally enclosed motors may be furnished.