

INDEX TO REDUCER RATINGS

SINGLE REDUCTION SPEED REDUCERS

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DOUBLE & TRIPLE REDUCTION SPEED REDUCERS

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DOUBLE AND TRIPLE REDUCTION REDUCER NO. 2

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 50(D) OUTPUT 34.5 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	5	10		0.60 0.43 0.25 0.07	595 595 595 595	1/2 460		146 146 146 146		286 286 286 286
1725 rpm INPUT 75(D) OUTPUT 23.0 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	7-1/2	10		0.46 0.33 0.19 0.06	595 595 595 595	1/2 595 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 100(D) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	20	5		0.42 0.31 0.19 0.06	583 591 598 604	1/2 583 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 150(D) OUTPUT 11.5 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	20	7-1/2		0.33 0.24 0.15 0.05	595 595 595 595	1/3 595 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 200(D) OUTPUT 8.625 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	20	10		0.29 0.22 0.13 0.04	595 595 595 595	1/3 595 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 300(D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	20	15		0.25 0.19 0.12 0.04	595 595 595 595	1/4 595 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 500(D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	20	25		0.22 0.17 0.11 0.04	621 621 621 621	1/4 621 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 750(D) OUTPUT 2.3 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	30	25		0.19 0.15 0.09 0.03	621 621 621 621	1/4 621 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 1000(D) OUTPUT 1.725 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	40	25		0.19 0.15 0.09 0.03	621 621 621 621	1/4 621 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 1500(D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40 0.07	60	25		0.17 0.13 0.08 0.03	621 621 621 621	1/6 583		146 146 146 146		286 286 286 286
1725 rpm INPUT 2000(D) OUTPUT .863 rpm	1800 1200 600 100	0.90 0.60 0.30 0.05	50	40		0.18 0.14 0.09 0.03	573 573 573 573	1/6 540		146 146 146 146		286 286 286 286
1725 rpm INPUT 3000(D) OUTPUT .575 rpm	1800 1200 600 100	0.60 0.40 0.20 0.03	60	50		0.14 0.11 0.07 0.03	398 398 398 398	1/6 398 *		146 146 146 146		286 286 286 286
1725 rpm INPUT 3600(D) OUTPUT .479 rpm	1800 1200 600 100	0.05 0.33 0.17 0.03	60	60		0.14 0.11 0.07 0.03	400 400 400 400	1/6 400 *		146 146 146 146		286 286 286 286

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

D Center Distance: Primary 1.333" Secondary 1.750"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

2

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↓ ↑	
	UP	DOWN	UP	DOWN								
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 50(D) OUTPUT 34.5 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 75(D) OUTPUT 23.0 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 100(D) OUTPUT 17.25 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 150(D) OUTPUT 11.5 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 200 (D) OUTPUT 8.625 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 300(D) OUTPUT 5.75 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 750 (D) OUTPUT 2.3 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 1000 (D) OUTPUT 1.725 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 2000 (D) OUTPUT 86.3 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 3000(D) OUTPUT .575 rpm
	286 286 286 286	268 268 268 268					883 883 883 883	832 832 832 832				1725 rpm INPUT 3600 (D) OUTPUT .479 rpm

**Overhung Load given at one shaft diameter
from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

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DOUBLE AND TRIPLE REDUCTION REDUCER NO. 3

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD			OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 50(D) OUTPUT 34.5 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	5	10		0.80 0.57 0.32 0.08	857 857 857 857	3/4 783		146 146 146 146		428 428 428 428
1725 rpm INPUT 75(D) OUTPUT 23.0 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	5	15		0.63 0.45 0.26 0.07	857 857 857 857	3/4 857 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 100(D) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	10	10		0.51 0.37 0.22 0.06	857 857 857 857	1/2 843		146 146 146 146		428 428 428 428
1725 rpm INPUT 150(D) OUTPUT 11.5 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	15	10		0.39 0.29 0.17 0.05	857 857 857 857	1/2 857 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 200(D) OUTPUT 8.625 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	20	10		0.35 0.26 0.16 0.05	857 857 857 857	1/3 771		146 146 146 146		428 428 428 428
1725 rpm INPUT 300(D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	30	10		0.29 0.21 0.13 0.04	857 857 857 857	1/3 857 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 500(D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	25	20		0.24 0.19 0.12 0.04	800 800 800 800	1/4 800 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 750(D) OUTPUT 2.3 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	25	30		0.22 0.17 0.11 0.04	857 857 857 857	1/4 857 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 1000(D) OUTPUT 1.725 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	25	40		0.21 0.16 0.10 0.04	800 800 800 800	1/4 800 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 1500(D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40 0.07	30	50		0.18 0.14 0.09 0.03	740 740 740 740	1/6 553		146 146 146 146		428 428 428 428
1725 rpm INPUT 2000(D) OUTPUT .863 rpm	1800 1200 600 100	0.90 0.60 0.30 0.05	50	40		0.20 0.15 0.10 0.03	800 800 800 800	1/4 800 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 3000(D) OUTPUT .575 rpm	1800 1200 600 100	0.60 0.40 0.20 0.03	60	50		0.16 0.12 0.08 0.03	740 740 740 740	1/6 740 *		146 146 146 146		428 428 428 428
1725 rpm INPUT 3600(D) OUTPUT .479 rpm	1800 1200 600 100	0.50 0.33 0.17 0.03	60	60		0.16 0.12 0.07 0.03	650 650 650 650	1/6 650 *		146 146 146 146		428 428 428 428

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity, Output must be limited to torque shown.

D Center Distance: Primary 1.333" Secondary 2.000"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

3

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	428	402					1112	1105	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	50(D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 34.5 rpm
	482	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	75 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 23.0 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	100 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 17.25 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	150(D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 11.5 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	200 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 8.625 rpm
	428	402					1117	1117	2115	1248	1225	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	300 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 5.75 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	500 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 3.45 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	750 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 2.3 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	1000 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 1.725 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	1500 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT 1.15 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	2000 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT .863 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	3000 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT .575 rpm
	428	402					1117	1117	2115	1248	1224	
	428	402					1117	1117	2115	1248	1224	1725 rpm INPUT
	428	402					1117	1117	2115	1248	1224	3600 (D)
	428	402					1117	1117	2115	1248	1224	OUTPUT .479 rpm
	428	402					1117	1117	2115	1248	1224	

**Overhung Load given at one shaft diameter
from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

† 4.625" from centerline.

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DOUBLE AND TRIPLE REDUCTION REDUCER NO. 4

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE			OUTPUT TORQUE INCH LBS.	CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD				INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 50(D) OUTPUT 34.5 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	5	10		1.00 0.81 0.49 0.12	1139 1335 1475 1453	1 1134		146 146 146 146		835 835 835 835
1725 rpm INPUT 75(D) OUTPUT 23 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	5	15		1.00 0.80 0.46 0.12	1553 1785 1785 1778	1 1546		146 146 146 146		835 835 835 835
1725 rpm INPUT 100(D) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	5	20		0.78 0.56 0.33 0.09	1475 1475 1475 1475	3/4 1407		146 146 146 146		835 835 835 835
1725 rpm INPUT 150(D) OUTPUT 11.5 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	10	15		0.68 0.51 0.30 0.08	1720 1785 1785 1785	3/4 1720 *		146 146 146 146		835 835 835 835
1725 rpm INPUT 200(D) OUTPUT 8.625 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	10	20		0.50 0.37 0.22 0.07	1475 1475 1475 1475	1/2 1462		146 146 146 146		835 835 835 835
1725 rpm INPUT 300(D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	20	15		0.46 0.36 0.21 0.07	1652 1785 1785 1738	1/2 1652 *		146 146 146 146		835 835 835 835
1725 rpm INPUT 500(D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	25	20		0.32 0.24 0.15 0.05	1475 1475 1475 1475	1/3 1475 *		146 146 146 146		853 835 835 835
1725 rpm INPUT 750(D) OUTPUT 2.3 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	25	30		0.33 0.25 0.15 0.05	1785 1785 1785 1785	1/3 1785 *		146 146 146 146		835 835 835 835
1725 rpm INPUT 1000(D) OUTPUT 1.725 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	25	40		0.26 0.20 0.12 0.04	1475 1475 1475 1475	1/4 1325		146 146 146 146		835 835 835 835
1725 rpm INPUT 1500(D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40 0.07	30	50		0.21 0.16 0.10 0.04	1380 1380 1380 1380	1/4 1380 *		146 146 146 146		835 835 835 835
1725 rpm INPUT 2000(D) OUTPUT .863 rpm	1800 1200 600 100	0.90 0.60 0.30 0.05	40	50		0.21 0.16 0.10 0.04	1380 1380 1380 1380	1/4 1380 *		146 146 146 146		835 835 835 835
1725 rpm INPUT 3000(D) OUTPUT .575 rpm	1800 1200 600 100	0.60 0.40 0.20 0.03	60	50		0.18 0.15 0.09 0.03	1380 1380 1380 1380	1/6 984		146 146 146 146		835 835 835 835
1725 rpm INPUT 3600(D) OUTPUT .479 rpm	1800 1200 600 100	0.50 0.33 0.17 0.03	60	60		0.17 0.13 0.08 0.03	1137 1137 1137 1137	1/6 1067		146 146 146 146		835 835 835 835

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

D Center Distance: Primary 1.333" Secondary 2.625"
Maximum NEMA Motor Frame Size: 56C Flange.

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

**OVERALL
RATIO**

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	835	749	835	775	1562	1632	1703	1632	2226	1740	1340	1725 rpm INPUT 50(D) OUTPUT 34.5 rpm
	835	749	835	775	1562	1632	1990	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2020	1632	2266	1740	1340	1725 rpm INPUT 75(D) OUTPUT 23 rpm
	835	749	835	775	1562	1632	2342	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 100(D) OUTPUT 17.25 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 150(D) OUTPUT 11.5 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 200(D) OUTPUT 8.625 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 300(D) OUTPUT 5.75 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 500(D) OUTPUT 3.45 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 750(D) OUTPUT 2.3 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 1000(D) OUTPUT 1.725 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 1500(D) OUTPUT 1.15 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 2000(D) OUTPUT .863 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 3000(D) OUTPUT .575 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	1725 rpm INPUT 3600(D) OUTPUT .479 rpm
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1632	2356	1632	2266	1740	1340	
	835	749	835	775	1562	1633	2356	1632	2266	1740	1340	

**Overhung Load given at one shaft diameter
from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

† 5.3125" from centerline.



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 5

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
1725 rpm INPUT 50 (H) OUTPUT 34.5 rpm	1800	36.00	2	25		1.76	2192		230			1329
	1200	24.00				1.37	2471		230			1329
	600	12.00				0.84	2786		230			1329
	100	2.00				0.20	3078		230			1329
1725 rpm INPUT 50 (D) OUTPUT 34.5 rpm	1800	36.00	5	10 (10-1/3)		1.89	2430	2 2430 *		171		1329
	1200	24.00				1.39	2546			171		1329
	600	12.00				0.80	2667			171		1329
	100	2.00				0.20	2773			171		1329
1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm	1800	30.00	2	30		1.51	2171		230			1329
	1200	20.00				1.17	2428		230			1329
	600	10.00				0.72	2714		230			1329
	100	1.67				0.175	2979		230			1329
1725 rpm INPUT 75 (H) OUTPUT 23.0 rpm	1800	24.00	3	25		1.37	2471		230			1329
	1200	16.00				1.04	2676		230			1329
	600	8.00				0.61	2899		230			1329
	100	1.33				0.15	3099		230			1329
1725 rpm INPUT 75 (D) OUTPUT 23 rpm	1800	24.00	5	15 (15-1/2)		1.47	2578	1-1/2 2578 *		171		1329
	1200	16.00				1.08	2697			171		1329
	600	8.00				0.63	2822			171		1329
	100	1.33				0.16	2930			171		1329
1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm	1800	22.50	2	40		1.18	2105		230			1329
	1200	15.00				0.92	2330		230			1329
	600	7.50				0.57	2580		230			1329
	100	1.25				0.14	2715		230			1329
1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm	1800	20.00	3	30		1.18	2428		230			1329
	1200	13.33				0.89	2615		230			1329
	600	6.67				0.56	2817		230			1329
	100	1.11				0.13	2997		230			1329
1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm	1800	18.00	2	50		0.97	1995		230			1329
	1200	12.00				0.75	2195		230			1329
	600	6.00				0.46	2350		230			1329
	100	1.00				0.11	2350		230			1329
1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm	1800	18.00	10	10 (10-1/3)		1.14	2606	1 2496		171		1329
	1200	12.00				0.83	2667			171		1329
	600	6.00				0.48	2730			171		1329
	100	1.00				0.12	2784			171		1329
1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm	1800	15.00	2	60		0.81	1867		230			1329
	1200	10.00				0.63	2047		230			1329
	600	5.00				0.37	2056		230			1329
	100	0.83				0.09	2056		230			1329
1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm	1800	12.00	3	50		0.75	2195		230			1329
	1200	8.00				0.57	2339		230			1329
	600	4.00				0.33	2350		230			1329
	100	0.67				0.08	2350		230			1329
1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm	1800	12.00	10	15 (15-1/2)		0.91	2759	3/4 2544		171		1329
	1200	8.00				0.66	2822			171		1329
	600	4.00				0.39	2886			171		1329
	100	0.67				0.11	2941			171		1329
1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm	1800	10.00	3	60		0.63	2047		230			1329
	1200	6.67				0.46	2056		230			1329
	600	3.33				0.27	2056		230			1329
	100	0.56				0.07	2056		230			1329

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 3.000"
D Center Distance: Primary 2.000" Secondary 3.000"
Maximum NEMA Motor Frame Size: 184C - 145 TC Flange.
T Center Distance: Primary 1.333" Secondary 2.000" Third 3.000"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

5

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	1329	1265	1329	1867	2160	2369	2379	2372				1725 rpm INPUT 50 (H) OUTPUT 34.5 rpm
	1329	1265	1329	1867	2160	2669	2680	2673				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	1996	1984	1973	2817	2817	2268	1725 rpm INPUT 50 (D) OUTPUT 34.5 rpm
	1329	1265	1329	1867	2160	2300	2346	2335	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	2560	2570	2564				1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm
	1329	1265	1329	1867	2160	2887	2899	2891				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	2669	2680	2673				1725 rpm INPUT 75 (H) OUTPUT 23.0 rpm
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	2540	2549	2541	2817	2817	2268	1725 rpm INPUT 75 (D) OUTPUT 23 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	2880	2890	2885				1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	2898	2891					1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960				1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960				1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				
	1329	1265	1329	1867	2160	3024	2960	2960				

**Overhung Load given at one shaft diameter
from housing or mounting flange.

† O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

‡ 3" from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 5

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 200 (D) OUTPUT 8.62 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	20	10 (10-1/3)		0.74 0.55 0.32 0.09	2699 2730 2762 2789	3/4 2699 *		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	10	30		0.64 0.48 0.30 0.09	2838 2902 2968 3024	3/4 2838 *		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	20	25		0.51 0.39 0.24 0.08	3029 3066 3103 3134	1/2 2934		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	30	25		0.42 0.32 0.20 0.07	3066 3091 3115 3136	1/2 3066 *		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 1000 (D) OUTPUT 1.72 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	40	25		0.39 0.30 0.19 0.07	3084 3103 3122 3137	1/3 2385		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 1000 (T) OUTPUT 1.73 rpm	1800 1200 600 100	1.80 1.20	10	10	10 (10-1/3)	0.31 0.23	2775 2781	1/3 2775 *			146 146	1329 1329
1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40 0.07	60	25		0.33 0.25 0.17 0.06	3103 3115 3128 3138	1/3 3103 *		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80	5	10	30	0.31 0.23	2994 3008	1/3 2994 *			146 146	1329 1329
1725 rpm INPUT 2000 (D) OUTPUT .863 rpm	1800 1200 600 100	0.900 0.600 0.300 0.050	50	40		0.275 0.209 0.139 0.052	2715 2715 2715 2715	1/4 2147		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 2000 (T) OUTPUT .863 rpm	1800 1200 600 100	0.900 0.600 0.300 0.050	20	10	10 (10-1/3)	0.243 0.185	2785 2788	1/4 2785 *			146 146	1329 1329
1725 rpm INPUT 3000 (D) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400 0.200 0.033	60	50		0.236 0.185 0.124 0.048	2350 2350 2350 2350	1/4 2350 *		171 171 171 171		1329 1329 1329 1329
1725 rpm INPUT 3000 (T) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400 0.200 0.033	10	10	30	0.240 0.183	3015 3021	1/4 3015 *			146 146	1329 1329
1725 rpm INPUT 3600 (D) OUTPUT .479 rpm	1800 1200 600 100	0.500 0.333 0.167 0.028	60	60		0.219 0.172 0.116 0.045	2056 2056 2056 2056	1/4 2056 *		171 171 171 171		1329 1329 1329 1329

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H** Center Distance: Primary (Helical) 1.875" Secondary (Worm) 3.000"
D Center Distance: Primary 2.000" Secondary 3.000"
Maximum NEMA Motor Frame Size: 184C - 145 TC Flange.
T Center Distance: Primary 1.333" Secondary 2.000" Third 3.000"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

5

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	200 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT 8.62 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	300 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT 5.75 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	500 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT 3.45 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	750 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT 2.30 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1000 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT 1.72 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265					2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265					2960	2960	2817	2817	2268	1000 (T)
												OUTPUT 1.73 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1500 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT 1.15 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265					2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265					2960	2960	2817	2817	2268	1500 (T)
												OUTPUT 1.15 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	2000 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT .863 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265					2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265					2960	2960	2817	2817	2268	2000 (T)
												OUTPUT .863 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	3000 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT .575 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	
	1329	1265					2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265					2960	2960	2817	2817	2268	3000 (T)
												OUTPUT .575 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	1725 rpm INPUT
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	3600 (D)
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	OUTPUT .479 rpm
	1329	1265	1329	1867	2160	3024	2960	2960	2817	2817	2268	

**Overhung Load given at one shaft diameter
from housing or mounting flange.

‡ O. H. L. based on maximum bore. Use of
smaller diameter shaft may limit O. H. L.

† † † from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 5

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND												
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800					
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT	
			1 ST	2 ND	3 RD								
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.	
1725 rpm INPUT 5000 (T) OUTPUT .345 rpm	1800 1200 600 100	0.360 0.240 0.120 0.020	10	20	25	0.219 0.169	3129 3133	1/4 3129 *			146 146	1329 1329	
1725 rpm INPUT 7500 (T) OUTPUT .230 rpm	1800 1200 600 100	0.240 0.160 0.080 0.013	15	20	25	0.193 0.150	3133 3135	1/4 3133 *			146 146	1329 1329	
1725 rpm INPUT 10000 (T) OUTPUT .173 rpm	1800 1200 600 100	0.180 0.120 0.060 0.010	20	20	25	0.188 0.146	3135 3137	1/4 3135 *			146 146	1329 1329	
1725 rpm INPUT 20000 (T) OUTPUT .086 rpm	1800 1200 600 100	0.090 0.060 0.030 0.005	40	20	25	0.175 0.133	3138 3139	1/6 2936			146 146	1329 1329	
1725 rpm INPUT 30000 (T) OUTPUT .058 rpm	1800 1200 600 100	0.060 0.040 0.020 0.003	40	30	25	0.168 0.128	3139 3139	1/6 3139 *			146 146	1329 1329	
1725 rpm INPUT 40000 (T) OUTPUT .043 rpm	1800 1200 600 100	0.045 0.030 0.015 0.003	40	40	25	0.168 0.129	3139 3139	1/6 3139 *			146 146	1329 1329	
1725 rpm INPUT 50000 (T) OUTPUT .035 rpm	1800 1200 600 100	0.036 0.024 0.012 0.002	50	40	25	0.168 0.129	3139 3140	1/6 3139 *			146 146	1329 1329	
1725 rpm INPUT 60000 (T) OUTPUT .029 rpm	1800 1200 600 100	0.030 0.020 0.010 0.002	60	40	25	0.153 0.117	3139 3140	1/6 3139 *			146 146	1329 1329	
1725 rpm INPUT 75000 (T) OUTPUT .023 rpm	1800 1200 600 100	0.024 0.016 0.008 0.001	60	50	25	0.148 0.113	3140 3140	1/6 3140 *			146 146	1329 1329	
1725 rpm INPUT 80000 (T) OUTPUT .022 rpm	1800 1200 600 100	0.023 0.015 0.008 0.001	40	50	40	0.153 0.116	2715 2715	1/6 2715 *			146 146	1329 1329	
1725 rpm INPUT 90000 (T) OUTPUT .019 rpm	1800 1200 600 100	0.020 0.013 0.007 0.001	60	50	30	0.145 0.110	3034 3034	1/6 3034 *			146 146	1329 1329	
1725 rpm INPUT 100000 (T) OUTPUT .017 rpm	1800 1200 600 100	0.018 0.012 0.006 0.001	50	50	40	0.152 0.116	2715 2715	1/6 2715 *			146 146	1329 1329	
1725 rpm INPUT 150000 (T) OUTPUT .012 rpm	1800 1200 600 100	0.012 0.008 0.004 0.001	50	60	50	0.149 0.113	2350 2350	1/6 2350 *			146 146	1329 1329	
1725 rpm INPUT 180000 (T) OUTPUT .010 rpm	1800 1200 600 100	0.010 0.007 0.003 0.001	60	60	50	0.138 0.104	2350 2350	1/6 2350 *			146 146	1329 1329	

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H** Center Distance: Primary (Helical) 1.875" Secondary (Worm) 3.000"
D Center Distance: Primary 2.000" Secondary 3.000"
Maximum NEMA Motor Frame Size: 184C - 145 TC Flange.
T Center Distance: Primary 1.333" Secondary 2.000" Third 3.000"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

5

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 5000 (T) OUTPUT .345 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 7500 (T) OUTPUT .230 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 10000 (T) OUTPUT .173 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 20000 (T) OUTPUT .086 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 30000 (T) OUTPUT .058 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 40000 (T) OUTPUT .043 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 50000 (T) OUTPUT .035 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 60000 (T) OUTPUT .029 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 75000 (T) OUTPUT .023 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 80000 (T) OUTPUT .022 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 90000 (T) OUTPUT .019 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 100000 (T) OUTPUT .017 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 150000 (T) OUTPUT .012 rpm
	1329 1329	1265 1265					2960 2960	2960 2960	2817 2817	2817 2817	2268 2268	1725 rpm INPUT 180000 (T) OUTPUT .010 rpm

**Overhung Load given at one shaft diameter
from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

‡ 3" from centerline.



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 6

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 50 (H) OUTPUT 34.5 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	2	25		2.53 2.12 1.40 0.34	3048 3678 4439 4804		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 50 (D) OUTPUT rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	5	10 (10-1/3)		2.34 1.97 1.21 0.29	2975 3632 4075 4075	2 2491		171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm	1800 1200 600 100	30.00 20.00 10.00 1.67	2	30		2.24 1.85 1.12 0.26	3124 3716 4075 4075		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 75 (H) OUTPUT 23.00 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	3	25		2.12 1.68 1.05 0.24	3678 4169 4726 4804		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 75 (D) OUTPUT 23.00 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	5	15		2.34 1.67 0.94 0.23	4061 4075 4075 4075	2 3401		171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm	1800 1200 600 100	22.50 15.00 7.50 1.25	2	40		1.72 1.37 0.78 0.18	3128 3563 3600 3600		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm	1800 1200 600 100	20.00 13.33 6.67 1.11	3	30		1.85 1.43 0.80 0.19	3716 4075 4075 4075		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	2	50		1.43 1.02 0.59 0.15	3000 3000 3000 3000		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 100 (D) OUTPUT 17.2 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	10	10 (10-1/3)		1.66 1.24 0.70 0.18	3855 4075 4075 4075	1-1/2 3427		171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm	1800 1200 600 100	15.00 10.00 5.00 0.83	2	60		1.34 0.98 0.58 0.15	2825 2850 2850 2850		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	3	50		1.02 0.74 0.43 0.11	3000 3000 3000 3000		230 230 230 230			1391 1391 1391 1391
1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	10	15		1.34 0.97 0.56 0.15	4075 4075 4075 4075	1-1/2 4075 *		171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm	1800 1200 600 100	10.00 6.67 3.33 0.56	3	60		0.98 0.72 0.43 0.11	2850 2850 2850 2850		230 230 230 230			1391 1391 1391 1391

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 3.500"
D Center Distance: Primary 2.000" Secondary 3.500"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.000" Third 3.500"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

6

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	1391	1309	2089	2532	2176	2765	2778	2776				1725 rpm INPUT 50 (H) OUTPUT 34.5 rpm
	1391	1309	2089	2532	2176	3024	3085	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	2486	2484	2482	3920	3024	2268	1725 rpm INPUT 50 (D) OUTPUT 34.5 rpm
	1391	1309	2089	2532	2176	2915	2913	2911	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	2995	2968	2966				1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3080	3024				1725 rpm INPUT 75 (H) OUTPUT 23.00 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3011	3009	3920	3024	2268	1725 rpm INPUT 75 (D) OUTPUT 23.00 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024				1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2668	
	1391	1309	2089	2532	2176	3024	3385	3024				1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024				1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				
	1391	1309	2089	2532	2176	3024	3385	3024				

**Overhung Load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 6.6875" from centerline.



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 6

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND												
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800					
			DOUBLE		TRIPLE				OUTPUT TORQUE INCH LBS.	CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD			INPUT O.H.L.		INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.	
1725 rpm INPUT 200 (D) OUTPUT 8.63 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	20	10 (10-1/3)		1.02 0.78 0.46 0.13	3791 4075 4075 4075	1 3692			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	20	15		0.86 0.63 0.38 0.12	4075 4075 4075 4075	1 4075 *			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	20	25		0.78 0.58 0.36 0.12	4804 4804 4804 4804	3/4 4581			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	30	25		0.62 0.47 0.30 0.10	4804 4804 4804 4804	3/4 4804 *			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 1000 (D) OUTPUT 1.73 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	40	25		0.56 0.43 0.28 0.10	4804 4804 4804 4804	1/2 4046			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 1000 (T) OUTPUT 1.73 rpm	1800 1200 600 100	1.80 1.20	10	10	10 (10-1/3)	0.397 0.298	4075 4075	1/2 4075 *				146 146	1391 1391
1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40	50	30		0.40 0.31 0.20 0.07	4075 4075 4075 4075	1/2 4075 *			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80	15	10	10 (10-1/3)	0.290 0.216	4075 4075	1/3 4075 *				146 146	1391 1391
1725 rpm INPUT 2000 (D) OUTPUT .863 rpm	1800 1200 600 100	0.900 0.600 0.300	50	40		0.322 0.249 0.164 0.060	3600 3600 3600 3600	1/3 3600 *			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 2000 (T) OUTPUT .863 rpm	1800 1200 600 100	0.900 0.600	20	10	10 (10-1/3)	0.302 0.230	4075 4075	1/3 4075 *				146 146	1391 1391
1725 rpm INPUT 3000 (D) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400 0.200	60	50		0.273 0.214 0.143 0.054	3000 3000 3000 3000	1/4 2379			171 171 171 171		1391 1391 1391 1391
1725 rpm INPUT 3000 (T) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400	20	10	15	0.269 0.206	4075 4075	1/4 3418				146 146	1391 1391
1725 rpm INPUT 3600 (D) OUTPUT .479 rpm	1800 1200 600 100	0.500 0.333 0.167 0.028	60	60		0.283 0.223 0.150 0.050	2850 2850 2850 2850	1/4 2086			171 171 171 171		1391 1391 1391 1391

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 3.500"
D Center Distance: Primary 2.000" Secondary 3.500"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.000" Third 3.500"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

6

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 200 (D) OUTPUT 8.63rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 1000 (D) OUTPUT 1.73 rpm
	1391	1309					3385	3024	3920	3024	2268	1725 rpm INPUT 1000 (T) OUTPUT 1.73rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm
	1391	1309					3385	3024	3920	3024	2268	1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 2000 (D) OUTPUT .863 rpm
	1391	1309					3385	3024	3920	3024	2268	1725 rpm INPUT 2000 (T) OUTPUT .863 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 3000 (D) OUTPUT .575 rpm
	1391	1309					3385	3024	3920	3024	2268	1725 rpm INPUT 3000 (T) OUTPUT .575 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	1725 rpm INPUT 3600 (D) OUTPUT .479 rpm
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	
	1391	1309	2089	2532	2176	3024	3385	3024	3920	3024	2268	

**Overhung Load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 6.6875" from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 6

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND												
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800					
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT	
			1 ST	2 ND	3 RD			OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.	
1725 rpm INPUT 5000 (T) OUTPUT .345 rpm	1800 1200 600 100	0.360 0.240	10	20	25	0.271 0.209	4804 4804	1/4 3895			146 146	1391 1391	
1725 rpm INPUT 7500 (T) OUTPUT .230 rpm	1800 1200 600 100	0.240 0.160	15	20	25	0.234 0.182	4804 4804	1/4 4804 *			146 146	1391 1391	
1725 rpm INPUT 10000 (T) OUTPUT .173 rpm	1800 1200 600 100	0.180 0.120	20	20	25	0.226 0.177	4804 4804	1/4 4804 *			146 146	1391 1391	
1725 rpm INPUT 20000 (T) OUTPUT .086 rpm	1800 1200 600 100	0.090 0.060	40	20	25	0.206 0.160	4804 4804	1/4 4804 *			146 146	1391 1391	
1725 rpm INPUT 30000 (T) OUTPUT .058 rpm	1800 1200 600 100	0.060 0.040	40	30	25	0.194 0.151	4804 4804	1/6 3004			146 146	1391 1391	
1725 rpm INPUT 40000 (T) OUTPUT .043 rpm	1800 1200 600 100	0.045 0.030	40	40	25	0.195 0.150	4804 4586	1/6 3090			146 146	1391 1391	
1725 rpm INPUT 50000 (T) OUTPUT .035 rpm	1800 1200 600 100	0.036 0.024	50	40	25	0.196 0.149	4804 4312	1/6 3147			146 146	1391 1391	
1725 rpm INPUT 60000 (T) OUTPUT .029 rpm	1800 1200 600 100	0.030 0.020	40	50	30	0.173 0.133	4075 4075	1/6 4075			146 146	1391 1391	
1725 rpm INPUT 75000 (T) OUTPUT .023 rpm	1800 1200 600 100	0.024 0.016	50	50	30	0.173 0.135	4075 4075	1/6 4075			146 146	1391 1391	
1725 rpm INPUT 80000 (T) OUTPUT .022 rpm	1800 1200 600 100	0.023 0.015	40	50	40	0.161 0.123	3600 3600	1/6 3600 *			146 146	1391 1391	
1725 rpm INPUT 90000 (T) OUTPUT .019 rpm	1800 1200 600 100	0.020 0.013	60	50	30	0.158 0.121	4075 3924	1/6 4075 *			146 146	1391 1391	
1725 rpm INPUT 100000 (T) OUTPUT .017 rpm	1800 1200 600 100	0.018 0.012	50	50	40	0.160 0.123	3600 3600	1/6 3600 *			146 146	1391 1391	
1725 rpm INPUT 150000 (T) OUTPUT .012 rpm	1800 1200 600 100	0.012 0.008	50	60	50	0.155 0.119	3000 3000	1/6 3000 *			146 146	1391 1391	
1725 rpm INPUT 180000 (T) OUTPUT .010 rpm	1800 1200 600 100	0.010 0.007	60	60	50	0.143 0.109	3000 3000	1/6 3000 *			146 146	1391 1391	

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 3.500"
D Center Distance: Primary 2.000" Secondary 3.500"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.000" Third 3.500"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

6

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ± ±	
	UP	DOWN	UP	DOWN								
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 5000 (T) OUTPUT .345 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 7500 (T) OUTPUT .230 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 10000 (T) OUTPUT .173 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 20000 (T) OUTPUT .086 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 30000 (T) OUTPUT .058 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 40000 (T) OUTPUT .043 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 50000 (T) OUTPUT .035 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 60000 (T) OUTPUT .029 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 75000 (T) OUTPUT .023 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 80000 (T) OUTPUT .022 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 90000 (T) OUTPUT .019 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 100000 (T) OUTPUT .017 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 150000 (T) OUTPUT .012 rpm
	1391 1391	1309 1309					3385 3385	3024 3024	3920 3920	3024 3024	2268 2268	1725 rpm INPUT 180000 (T) OUTPUT .010 rpm

**Overhung Load given at one shaft diameter
from housing or mounting flange.

± O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

† 6.6875" from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 7

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 50 (H) OUTPUT 34.5 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	2	25 (26)		3.10 2.42 1.35 0.28	4267 4867 5050 5050		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 50 (D) OUTPUT 34.5 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	5	10 (9-3/4)		3.88 2.85 1.63 0.37	5088 5407 5725 6001	5 5088 *		349 349 349 349		1924 1924 1924 1924
1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm	1800 1200 600 100	30.00 20.00 10.00 1.67	2	30		2.98 2.48 1.62 0.38	4276 5160 6227 6664		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 75 (H) OUTPUT 23 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	3	25 (26)		2.42 1.74 0.95 0.20	4867 5050 5050 5050		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 75 (D) OUTPUT 23 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	5	15 (14-1/2)		3.27 2.46 1.43 0.33	5815 6275 6611 6611	3 5297		349 349 349 349		1924 1924 1924 1924
1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm	1800 1200 600 100	22.50 15.00 7.50 1.25	2	40 (39)		2.35 1.88 1.10 0.28	4295 4963 5293 5293		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm	1800 1200 600 100	20.00 13.33 6.67 1.11	3	30		2.48 1.96 1.22 0.27	5160 5849 6629 6629		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	2	50 (51)		1.82 1.44 0.83 0.19	4056 4619 4770 4770		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	5	20		2.39 1.78 1.04 0.25	5569 5903 6149 6149	2 4544		349 349 349 349		1924 1924 1924 1924
1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm	1800 1200 600 100	15.00 10.00 5.00 0.833	2	60		1.57 1.25 0.75 0.18	3851 4374 4635 4635		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 150 (H) OUTPUT 11.5 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	3	50 (51)		1.44 1.06 0.60 0.14	4619 4770 4770 4770		230 230 230 230			1924 1924 1924 1924
1725 rpm INPUT 150 (D) OUTPUT 11.5 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	10	15 (14-1/2)		2.04 1.47 0.83 0.21	6518 6611 6611 6611	2 6368		349 349 349 349		1924 1924 1924 1924
1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm	1800 1200 600 100	10.00 6.67 3.33 0.555	3	60		1.24 0.93 0.54 0.13	4374 4635 4635 4635		230 230 230 230			1924 1924 1924 1924

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 4.000"
D Center Distance: Primary 2.625" Secondary 4.000"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 4.000"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

7

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

OVERALL RATIO											
CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			
OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ± †	
UP	DOWN	UP	DOWN								
1924	1795	2871	2428	1843	3024	3516	3024				1725 rpm INPUT 50 (H) OUTPUT 34.5 rpm
1924	1795	2871	2428	2164	3024	3516	3024				
1924	1795	2871	2428	2813	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	1115	2999	2973	2957	4208	3024	2268	1725 rpm INPUT 50 (D) OUTPUT 34.5 rpm
1924	1795	2871	2428	1430	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	2043	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	3014	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	1997	3024	3516	3024				1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm
1924	1795	2871	2428	2193	3024	3516	3024				
1924	1795	2871	2428	2840	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	2164	3024	3516	3024				1725 rpm INPUT 75 (H) OUTPUT 23 rpm
1924	1795	2871	2428	2526	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	1718	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 75 (D) OUTPUT 23 rpm
1924	1795	2871	2428	2065	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	2769	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	2256	3024	3516	3024				1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm
1924	1795	2871	2428	2622	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	2193	3024	3516	3024				1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm
1924	1795	2871	2428	2540	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	2526	3024	3516	3024				1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm
1924	1795	2871	2428	2975	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	2150	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm
1924	1795	2871	2428	2536	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	2784	3024	3516	3024				1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	2975	3024	3516	3024				1725 rpm INPUT 150 (H) OUTPUT 11.5 rpm
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	2332	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 150 (D) OUTPUT 11.5 rpm
1924	1795	2871	2428	2769	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
1924	1795	2871	2428	3200	3024	3516	3024				1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				
1924	1795	2871	2428	3200	3024	3516	3024				

**Overhung Load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 8.1875" from centerline.



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 7

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND												
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800					
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT	
			1 ST	2 ND	3 RD			OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.	
1725 rpm INPUT 200 (D) OUTPUT 8.63 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	10	20		1.48 1.07 0.62 0.16	6065 6149 6149 6149	1-1/2 6065 *		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	10	30		1.33 0.97 0.57 0.16	6664 6664 6664 6664	1-1/2 6664 *		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	25	20		0.79 0.58 0.35 0.10	6149 6149 6149 6149	3/4 5702		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	25	30		0.74 0.55 0.34 0.11	6664 6664 6664 6664	3/4 6664 *		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 1000 (D) OUTPUT 1.73 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	50	20		0.55 0.41 0.26 0.09	6149 6149 6149 6149	1/2 5321		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 1000 (T) OUTPUT 1.73 rpm	1800 1200 600 100	1.80 1.20	5	10	20	0.515 0.382	6149 6149	1/2 5212			146 146	1924 1924	
1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40 0.07	50	30		0.53 0.40 0.26 0.09	6664 6664 6664 6664	1/2 6137		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80	5	10	30	0.482 0.361	6664 6664	1/2 6664 *			146 146 146 146	1924 1924	
1725 rpm INPUT 2000 (D) OUTPUT .863rpm	1800 1200 600 100	0.900 0.600 0.300 0.050	50	40 (39)		0.393 0.301 0.197 0.073	5293 5293 5293 5293	1/2 5293 *		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 2000 (T) OUTPUT .863 rpm	1800 1200 600 100	0.900 0.600	10	10	20	0.361 0.273	6149 6149	1/3 5290			146 146 146 146	1924 1924	
1725 rpm INPUT 3000 (D) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400 0.200 0.033	60	50 (51)		0.321 0.249 0.167 0.061	4770 4770 4770 4770	1/3 4770 *		349 349 349 349		1924 1924 1924 1924	
1725 rpm INPUT 3000 (T) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400	10	10	30	0.347 0.265	6664 6664	1/3 6151			146 146 146 146	1924 1924	
1725 rpm INPUT 3600 (D) OUTPUT .479 rpm	1800 1200 600 100	0.500 0.333 0.167 0.028	60	60		0.306 0.238 0.160 0.059	4635 4635 4635 4635	1/3 4635 *		349 349 349 349		1924 1924 1924 1924	

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 4.000"
D Center Distance: Primary 2.625" Secondary 4.000"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 4.000"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

7

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↓ ↑	
	UP	DOWN	UP	DOWN								
	1924	1795	2871	2428	2851	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 200 (D) OUTPUT 8.63 rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 1000 (D) OUTPUT 1.73 rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795					3516	3024	4208	3034	2268	1725 rpm INPUT 1000 (T) OUTPUT 1.73 rpm
	1924	1795					3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795					3516	3024	4208	3024	2268	1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm
	1924	1795					3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 2000 (D) OUTPUT .863rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795					3516	3024	4208	3024	2268	1725 rpm INPUT 2000 (T) OUTPUT .863 rpm
	1924	1795					3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 3000 (D) OUTPUT .575rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795					3516	3024	4208	3024	2268	1725 rpm INPUT 3000 (T) OUTPUT .575 rpm
	1924	1795					3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	1725 rpm INPUT 3600 (D) OUTPUT .479 rpm
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	
	1924	1795	2871	2428	3200	3024	3516	3024	4208	3024	2268	

**Overhung Load given at one shaft diameter
from housing or mounting flange.

† O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

‡ 8.1875" from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 7

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND												
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800					
			DOUBLE		TRIPLE			OUTPUT TORQUE INCH LBS.	CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT	
			1 ST	2 ND	3 RD				INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.	
1725 rpm INPUT 5000 (T) OUTPUT .345 rpm	1800 1200 600 100	0.360 0.240	25	10	20	0.258 0.196	6149 6149	1/4 5707			146 146	1924 1924	
1725 rpm INPUT 7500 (T) OUTPUT .230 rpm	1800 1200 600 100	0.240 0.160	25	10	30	0.255 0.196	6664 6664	1/4 6414			146 146	1924 1924	
1725 rpm INPUT 10000 (T) OUTPUT .173 rpm	1800 1200 600 100	0.180 0.120	20	25	20	0.217 0.166	6149 6149	1/4 6149 *			146 146	1924 1924	
1725 rpm INPUT 20000 (T) OUTPUT .086 rpm	1800 1200 600 100	0.090 0.060	40	25	20	0.190 0.146	6149 6149	1/6 4079			146 146	1924 1924	
1725 rpm INPUT 30000 (T) OUTPUT .058 rpm	1800 1200 600 100	0.060 0.040	40	25	30	0.193 0.150	6664 6664	1/6 4225			146 146	1924 1924	
1725 rpm INPUT 40000 (T) OUTPUT .043 rpm	1800 1200 600 100	0.045 0.030	40	50	20	0.178 0.138	6149 6149	1/6 5535			146 146	1924 1924	
1725 rpm INPUT 50000 (T) OUTPUT .035 rpm	1800 1200 600 100	0.036 0.024	50	50	20	0.179 0.139	6149 6149	1/6 5539			146 146	1924 1924	
1725 rpm INPUT 60000 (T) OUTPUT .029 rpm	1800 1200 600 100	0.030 0.020	40	50	30	0.182 0.142	6664 6664	1/6 5540			146 146	1924 1924	
1725 rpm INPUT 75000 (T) OUTPUT .023 rpm	1800 1200 600 100	0.024 0.016	50	50	30	0.184 0.144	6664 6664	1/6 5471			146 146	1924 1924	
1725 rpm INPUT 80000 (T) OUTPUT .022 rpm	1800 1200 600 100	0.023 0.015	40	50	40 (39)	0.163 0.126	5293 5293	1/6 5293 *			146 146	1924 1924	
1725 rpm INPUT 90000 (T) OUTPUT .019 rpm	1800 1200 600 100	0.020 0.113	60	50	30	0.167 0.130	6664 6664	1/6 6664 *			146 146	1924 1924	
1725 rpm INPUT 100000 (T) OUTPUT .017 rpm	1800 1200 600 100	0.018 0.012	50	50	40 (39)	0.164 0.126	5293 5293	1/6 5293 *			146 146	1924 1924	
1725 rpm INPUT 150000 (T) OUTPUT .012 rpm	1800 1200 600 100	0.012 0.008	50	60	50 (51)	0.156 0.120	4770 4770	1/6 4770 *			146 146	1924 1924	
1725 rpm INPUT 180000 (T) OUTPUT .010 rpm	1800 1200 600 100	0.010 0.007	50	60	60	0.155 0.118	4635 4635	1/6 4635 *			146 146	1924 1924	

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H** Center Distance: Primary (Helical) 1.875" Secondary (Worm) 4.000"
D Center Distance: Primary 2.625" Secondary 4.000"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 4.000"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

7

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↓ ↑	
	UP	DOWN	UP	DOWN								
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 5000 (T) OUTPUT .345 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 7500 (T) OUTPUT .230 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 10000 (T) OUTPUT .173 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 20000 (T) OUTPUT .086 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 30000 (T) OUTPUT .058 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 40000 (T) OUTPUT .043 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 50000 (T) OUTPUT .035 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 60000 (T) OUTPUT .029 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 75000 (T) OUTPUT .023 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 80000 (T) OUTPUT .022 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 90000 (T) OUTPUT .019 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 100000 (T) OUTPUT .017 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 150000 (T) OUTPUT .012 rpm
	1924 1924	1795 1795					3516 3516	3024 3024	4208 4208	3024 3024	2268 2268	1725 rpm INPUT 180000 (T) OUTPUT .010 rpm

**Overhung Load given at one shaft diameter
from housing or mounting flange.

† O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

‡ 8.1875" from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 8

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFI	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 50 (H) OUTPUT 34.50 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	2	25		4.19 3.24 1.94 0.41	5711 6491 7378 7378		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 50 (D) OUTPUT 34.5 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	5	10 (9-3/4)		4.44 3.73 2.23 0.51	5894 7251 8083 8544	5 5894 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm	1800 1200 600 100	30.00 20.00 10.00 1.67	2	30		3.96 3.24 2.07 0.45	6008 7175 8568 8568		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 75 (H) OUTPUT 23.00 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	3	25		3.24 2.56 1.39 0.29	6491 7498 7600 7600		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 75 (D) OUTPUT 23.00 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	7-1/2	10 (9-3/4)		3.53 2.85 1.62 0.37	6746 7906 8264 8576	3 5654		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm	1800 1200 600 100	22.50 15.00 7.50 1.25	2	40 (39)		3.09 2.45 1.53 0.35	5860 6771 7823 7900		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm	1800 1200 600 100	20.00 13.33 6.67 1.11	3	30		3.24 2.52 1.38 0.31	7175 8076 8076 8076		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	2	50 (51)		2.41 2.03 1.22 0.29	5392 6610 7180 7180		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	5	20		2.96 2.18 1.27 0.31	7256 7656 8078 8448	3 7256 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm	1800 1200 600 100	15.00 10.00 5.00 0.83	2	60 (61)		2.01 1.59 0.97 0.23	5207 5930 6510 6510		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	3	50 (51)		2.03 1.55 0.87 0.21	6610 7180 7180 7180		230 230 230 230			2870 2870 2870 2870
1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	5	30		2.59 1.95 1.20 0.32	8269 8778 9531 10112	3 8269 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm	1800 1200 600 100	10.00 6.67 3.33 0.56	3	60 (61)		1.59 1.22 0.70 0.17	5930 6467 6510 6510		230 230 230 230			2870 2870 2870 2870

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 4.6"
D Center Distance: Primary 2.625" Secondary 4.6"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 4.6"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

8

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	2870	2735	2870	2773	3503	3470	3468	3468				1725 rpm INPUT 50 (H) OUTPUT 34.50 rpm
	2870	2735	2870	2773	3516	3936	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	2642	2591	2591	4866	4464	3636	1725 rpm INPUT 50 (D) OUTPUT 34.5 rpm
	2870	2735	2870	2773	3516	3164	3109	3109	4866	4464	3636	
	2870	2735	2870	2773	3516	4266	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	3835	3516	3516				1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm
	2870	2735	2870	2773	3516	4261	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	3936	3516	3516				1725 rpm INPUT 75 (H) OUTPUT 23.00 rpm
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3211	3164	3109	3109	4866	4464	3636	1725 rpm INPUT 75 (D) OUTPUT 23.00rpm
	2870	2735	2870	2773	3516	3769	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4302	3516	3516				1725 rpm INPUT 80 (H) OUTPUT 21.56rpm
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4261	3516	3516				1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4150	3516	3516	4866	4464	3636	1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516				1725 rpm INPUT 120 (H) OUTPUT 14.38rpm
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516				1725 rpm INPUT 180 (H) OUTPUT 9.58rpm
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				
	2870	2735	2870	2773	3516	4464	3516	3516				

**Overhung Load given at one shaft diameter
from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

† 8.750" from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 8

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD				INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 200 (D) OUTPUT 8.63 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	10	20		1.79 1.31 0.76 0.19	7864 8078 8298 8485	2 7864 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	10	30		1.65 1.23 0.74 0.20	9198 9531 9875 10172	1-1/2 8181		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	25	20		0.97 0.71 0.43 0.12	8253 8342 8432 8508	1 8253 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	25	30		0.94 0.70 0.43 0.13	9805 9945 10088 10208	1 9805 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 1000 (D) OUTPUT 1.73 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	50	20		0.66 0.50 0.31 0.10	8387 8432 8478 8516	3/4 8387 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 1000 (T) OUTPUT 1.73 rpm	1800 1200 600 100	1.80 1.20	5	10	20	0.62 0.45	8387 8432	3/4 8387 *			146 146	2870 2870
1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40 0.06	50	30		0.66 0.51 0.32 0.11	10016 10088 10159 10220	3/4 10016 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80	5	10	30	0.60 0.45	10016 10088	3/4 10016 *			146 146	2870 2870
1725 rpm INPUT 2000 (D) OUTPUT 0.863 rpm	1800 1200 600 100	0.923 0.615 0.308 0.051	50	40 (39)		0.489 0.374 0.239 0.082	7900 7900 7900 7900	1/2 7900 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 2000 (T) OUTPUT 0.863 rpm	1800 1200 600 100	0.900 0.600	10	10	20	0.423 0.317	8455 8478	1/2 8455 *			146 146	2870 2870
1725 rpm INPUT 3000 (D) OUTPUT 0.575 rpm	1800 1200 600 100	0.588 0.392 0.196 0.033	60	50 (51)		0.406 0.315 0.210 0.075	7180 7180 7180 7180	1/2 7180 *		349 349 349 349		2870 2870 2870 2870
1725 rpm INPUT 3000 (T) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400	10	10	30	0.421 0.319	10123 10159	1/2 10123			146 146	2870 2870
1725 rpm INPUT 3600 (D) OUTPUT 0.479 rpm	1800 1200 600 100	0.500 0.333 0.167 0.028	60	60 (61)		0.357 0.278 0.183 0.066	6510 6510 6510 6510	1/3 5599		349 349 349 349		2870 2870 2870 2870

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 4.6"
D Center Distance: Primary 2.625" Secondary 4.6"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 4.6"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

8

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↓ ↑	
	UP	DOWN	UP	DOWN								
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 200 (D) OUTPUT 8.63 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 1000 (D) OUTPUT 1.73 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735					3516	3516	4866	4464	3636	1725 rpm INPUT 1000 (T) OUTPUT 1.73 rpm
	2870	2735					3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735					3516	3516	4866	4464	3636	1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm
	2870	2735					3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 2000 (D) OUTPUT 0.863rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735					3516	3516	4866	4464	3636	1725 rpm INPUT 2000 (T) OUTPUT 0.863 rpm
	2870	2735					3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 3000 (D) OUTPUT 0.575rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735					3516	3516	4866	4464	3636	1725 rpm INPUT 3000 (T) OUTPUT .575 rpm
	2870	2735					3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	1725 rpm INPUT 3600 (D) OUTPUT 0.479 rpm
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	
	2870	2735	2870	2773	3516	4464	3516	3516	4866	4464	3636	

**Overhung Load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 8.750" from centerline.

5



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 8

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 5000 (T) OUTPUT .345 rpm	1800 1200 600 100	0.360 0.240	25	10	20	0.289 0.220	8496 8505	1/3 8496 *			146 146	2870 2870
1725 rpm INPUT 7500 (T) OUTPUT .230 rpm	1800 1200 600 100	0.240 0.160	25	10	30	0.295 0.227	10188 10203	1/3 10188 *			146 146	2870 2870
1725 rpm INPUT 10000 (T) OUTPUT .173 rpm	1800 1200 600 100	0.180 0.120	20	25	20	0.236 0.181	8510 8515	1/4 8510 *			146 146	2870 2870
1725 rpm INPUT 20000 (T) OUTPUT .086 rpm	1800 1200 600 100	0.090 0.060	40	25	20	0.206 0.158	8517 8510	1/4 8517 *			146 146	2870 2870
1725 rpm INPUT 30000 (T) OUTPUT .058 rpm	1800 1200 600 100	0.060 0.040	40	25	30	0.214 0.166	10221 10225	1/4 10221 *			146 146	2870 2870
1725 rpm INPUT 40000 (T) OUTPUT .043 rpm	1800 1200 600 100	0.045 0.030	40	50	20	0.190 0.147	8520 8521	1/6 5992			146 146	2870 2870
1725 rpm INPUT 50000 (T) OUTPUT .035 rpm	1800 1200 600 100	0.035 0.024	50	50	20	0.190 0.148	8521 8522	1/6 6173			146 146	2870 2870
1725 rpm INPUT 60000 (T) OUTPUT 0.029 rpm	1800 1200 600 100	0.030 0.020	40	50	30	0.199 0.155	10226 10228	1/6 6199			146 146	2870 2870
1725 rpm INPUT 75000 (T) OUTPUT 0.023 rpm	1800 1200 600 100	0.024 0.016	50	50	30	0.200 0.157	10227 10229	1/6 6314			146 146	2870 2870
1725 rpm INPUT 80000 (T) OUTPUT 0.022 rpm	1800 1200 600 100	0.023 0.015	40	50	40 (39)	0.175 0.135	7900 7900	1/6 7621			146 146	2870 2870
1725 rpm INPUT 90000 (T) OUTPUT 0.019 rpm	1800 1200 600 100	0.020 0.013	60	50	30	0.180 0.139	10228 9954	1/6 9598			146 146	2870 2870
1725 rpm INPUT 100000 (T) OUTPUT .017 rpm	1800 1200 600 100	0.018 0.012	50	50	40 (39)	0.175 0.136	7900 7900	1/6 7752			146 146	2870 2870
1725 rpm INPUT 150000 (T) OUTPUT .012 rpm	1800 1200 600 100	0.012 0.008	50	60	50 (51)	0.169 0.131	7180 7180	1/6 7180			146 146	2870 2870
1725 rpm INPUT 180000 (T) OUTPUT .010 rpm	1800 1200 600 100	0.010 0.007	60	60	50 (51)	0.155 0.119	7180 7180	1/6 7180 *			146 146	2870 2870

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 4.6"
D Center Distance: Primary 2.625" Secondary 4.6"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 4.6"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

8

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

OVERALL
RATIO

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 5000 (T) OUTPUT .345 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 7500 (T) OUTPUT .230 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 10000 (T) OUTPUT .173 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 20000 (T) OUTPUT .086 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 30000 (T) OUTPUT .058 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 40000 (T) OUTPUT .043 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 50000 (T) OUTPUT .035 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 60000 (T) OUTPUT 0.029 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 75000 (T) OUTPUT 0.023 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 80000 (T) OUTPUT 0.022 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 90000 (T) OUTPUT 0.019 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 100000 (T) OUTPUT .017 rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 150000 (T) OUTPUT .012rpm
	2870 2870	2735 2735					3516 3516	3516 3516	4866 4866	4464 4464	3636 3636	1725 rpm INPUT 180000 (T) OUTPUT .010rpm

**Overhung Load given at one shaft diameter
from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

‡ 8.750" from centerline.

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DOUBLE AND TRIPLE REDUCTION REDUCER NO. 9

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 50 (H) OUTPUT 34.50 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	2	25		5.76 3.97 2.13 0.45	7795 7800 7800 7800		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 50 (D) OUTPUT 34.50 rpm	1800 1200 600 100	36.00 24.00 12.00 2.00	5	10 (10-1/4)		4.45 3.74 2.60 0.56	6113 7508 9862 9862	5 6613 *		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm	1800 1200 600 100	30.00 20.00 10.00 1.67	2	30		5.16 3.93 2.16 0.49	7476 8200 8200 8200		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 75 (H) OUTPUT 23.00 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	3	25		3.68 2.55 1.38 0.29	7200 7200 7200 7200		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 75 (D) OUTPUT 23.00 rpm	1800 1200 600 100	24.00 16.00 8.00 1.33	5	15 (14-1/2)		4.45 3.74 2.39 0.55	7985 9689 11388 11388	5 7985 *		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 80 (H) OUTPUT 21.56 rpm	1800 1200 600 100	22.50 15.00 7.50 1.25	2	40 (41)		3.98 3.30 1.93 0.44	7712 9307 9909 9909		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm	1800 1200 600 100	20.00 13.33 6.67 1.11	3	30		3.75 2.63 1.46 0.33	7800 7800 7800 7800		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	2	50		3.31 2.72 1.61 0.37	7457 8869 9439 9439		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm	1800 1200 600 100	18.00 12.00 6.00 1.00	5	20		4.04 2.85 1.58 0.38	9903 9903 9903 9903	5 9903 *		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 120 (H) OUTPUT 14.38 rpm	1800 1200 600 100	15.00 10.00 5.00 0.83	3	40 (41)		3.30 2.46 1.37 0.31	9307 9909 9909 9909		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm	1800 1200 600 100	12.00 8.00 4.00 0.667	3	50		2.72 2.04 1.15 0.27	8869 9439 9439 9439		230 230 230 230			2713 2713 2713 2713
1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm	1800 1200 600 100	12.00 8.00 4.00 0.67	5	30		3.70 2.65 1.52 0.40	11388 11388 11388 11388	3 9008		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm	1800 1200 600 100	10.00 6.67 3.33 0.56	3	60		2.18 1.67 0.95 0.22	8130 8864 8864 8864		230 230 230 230			2713 2713 2713 2713

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 5.167"
D Center Distance: Primary 2.625" Secondary 5.167"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 5.167"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

9

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↓	
	UP	DOWN	UP	DOWN								
	2713	2670	4050	3372	4307	4848	4270	3920				1725 rpm INPUT 50 (H) OUTPUT 34.50 rpm
	2713	2670	4050	3372	4464	4848	4843	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	3759	4502	3674	3662	5050	4848	3636	1725 rpm INPUT 50 (D) OUTPUT 34.50rpm
	2713	2670	4050	3372	4445	4848	4357	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	4730	3920				1725 rpm INPUT 60 (H) OUTPUT 28.75 rpm
	2713	2670	4050	3372	4464	4848	5239	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	4843	3920				1725 rpm INPUT 75 (H) OUTPUT 23.00 rpm
	2713	2670	4050	3372	4464	4848	5616	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	4479	3920	5050	4848	3636	1725 rpm INPUT 75 (D) OUTPUT 23.00rpm
	2713	2670	4050	3372	4464	4848	5239	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5321	3920				1725 rpm INPUT 80 (H) OUTPUT 21.56rpm
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5239	3920				1725 rpm INPUT 90 (H) OUTPUT 19.17 rpm
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				1725 rpm INPUT 100 (H) OUTPUT 17.25 rpm
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5362	3920	5050	4848	3636	1725 rpm INPUT 100 (D) OUTPUT 17.25 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920				1725 rpm INPUT 120 (H) OUTPUT 14.38rpm
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				1725 rpm INPUT 150 (H) OUTPUT 11.50 rpm
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 150 (D) OUTPUT 11.50 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920				1725 rpm INPUT 180 (H) OUTPUT 9.58 rpm
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				
	2713	2670	4050	3372	4464	4848	5689	3920				

**Overhung Load given at one shaft diameter from housing or mounting flange.

† O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

‡ 10.438" from centerline.



DOUBLE AND TRIPLE REDUCTION REDUCER NO. 9

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 200 (D) OUTPUT 8.62 rpm	1800 1200 600 100	9.00 6.00 3.00 0.50	10	20		2.27 1.62 0.92 0.23	9903 9903 9903 9903	2 8532		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm	1800 1200 600 100	6.00 4.00 2.00 0.33	10	30		2.15 1.56 0.92 0.25	11388 11388 11388 11388	2 10456		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm	1800 1200 600 100	3.60 2.40 1.20 0.20	20	25		1.25 0.92 0.54 0.15	10550 10550 10550 10550	1-1/2 10550 *		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm	1800 1200 600 100	2.40 1.60 0.80 0.13	25	30		1.15 0.86 0.52 0.16	11388 11388 11388 11388	1-1/2 11388 *		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 1000 (D) OUTPUT 1.72 rpm	1800 1200 600 100	1.80 1.20 0.60 0.10	40	25		0.84 0.63 0.39 0.13	10550 10550 10550 10550	1 10550 *		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 1000 (T) OUTPUT 1.72 rpm	1800 1200 600 100	1.80 1.20	5	10	20	0.72 0.52	9903 9903	3/4 9903 *			146 146	2713 2713
1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80 0.40 0.07	50	30		0.82 0.61 0.41 0.12	11388 11388 11388 10170	3/4 10037		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm	1800 1200 600 100	1.20 0.80	5	10	30	0.70 0.52	11388 11388	3/4 11388 *			146 146	2713 2713
1725 rpm INPUT 2000 (D) OUTPUT .863 rpm	1800 1200 600 100	0.900 0.600 0.300 0.050	40	50		0.591 0.451 0.292 0.103	9439 9439 9439 9439	1/2 7156		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 2000 (T) OUTPUT .863 rpm	1800 1200 600 100	0.900 0.600	10	10	20	0.481 0.359	9903 9903	1/2 9903 *			146 146	2713 2713
1725 rpm INPUT 3000 (D) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400 0.200 0.033	50	60		0.483 0.355 0.246 0.078	8864 8864 8864 8864	1/2 8864 *		349 349 349 349		2713 2713 2713 2713
1725 rpm INPUT 3000 (T) OUTPUT .575 rpm	1800 1200 600 100	0.600 0.400	10	10	30	0.484 0.367	11388 11388	1/2 11388 *			146 146	2713 2713
1725 rpm INPUT 3600 (D) OUTPUT .479 rpm	1800 1200 600 100	0.500 0.333 0.167 0.028	60	60		0.430 0.335 0.220 0.075	8864 8864 8864 8864	1/2 8864 *		349 349 349 349		2713 2713 2713 2713

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 5.167"
D Center Distance: Primary 2.625" Secondary 5.167"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 5.167"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

9

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

	CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
	OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↓ ↑	
	UP	DOWN	UP	DOWN								
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 200 (D) OUTPUT 8.62 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 300 (D) OUTPUT 5.75 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 500 (D) OUTPUT 3.45 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 750 (D) OUTPUT 2.30 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 1000 (D) OUTPUT 1.72 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670					5689	3920	5050	4848	3636	1725 rpm INPUT 1000 (T) OUTPUT 1.72 rpm
	2713	2670					5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 1500 (D) OUTPUT 1.15 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670					5689	3920	5050	4848	3636	1725 rpm INPUT 1500 (T) OUTPUT 1.15 rpm
	2713	2670					5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 2000 (D) OUTPUT .863 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670					5689	3920	5050	4848	3636	1725 rpm INPUT 2000 (T) OUTPUT .863 rpm
	2713	2670					5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 3000 (D) OUTPUT .575 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670					5689	3920	5050	4848	3636	1725 rpm INPUT 3000 (T) OUTPUT .575 rpm
	2713	2670					5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	1725 rpm INPUT 3600 (D) OUTPUT .479 rpm
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	
	2713	2670	4050	3372	4464	4848	5689	3920	5050	4848	3636	

**Overhung Load given at one shaft diameter from housing or mounting flange.

‡ O.H.L. based on maximum bore. Use of smaller diameter shaft may limit O.H.L.

† 10.438" from centerline.

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DOUBLE AND TRIPLE REDUCTION REDUCER NO. 9

H Double Reduction Series Helical and Worm Gear
D Double Reduction Series Worm Gear
T Triple Reduction Series Worm Gear

All ratings stated are for A.G.M.A. Class 1 service.

OVERALL RATIO	HORSEPOWER TORQUE AND											
	INPUT SPEED R.P.M.	OUTPUT R.P.M.	RATIOS ★			INPUT H.P.	OUTPUT TORQUE INCH LBS.	GEARMOTOR H.P. @ 1800				
			DOUBLE		TRIPLE				CBX-CTX CVX-LX	CBD-CVD SFD-CTD LD	CTT-CVT SFT	CBD-CTD CBX-CTX CTT
			1 ST	2 ND	3 RD							
								OUTPUT TORQUE INCH LBS.	INPUT O.H.L.	INPUT O.H.L.	INPUT O.H.L.	OUTPUT O.H.L.
1725 rpm INPUT 5000 (T) OUTPUT .345 rpm	1800 1200 600 100	0.360 0.240	10	20	25	0.340 0.260	10550 10550	1/3 10133			146 146	2713 2713
1725 rpm INPUT 7500 (T) OUTPUT .230 rpm	1800 1200 600 100	0.240 0.160	10	25	30	0.334 0.259	11388 11388	1/3 11350			146 146	2713 2713
1725 rpm INPUT 10000 (T) OUTPUT .173 rpm	1800 1200 600 100	0.180 0.120	20	20	25	0.270 0.208	10550 10550	1/4 8796			146 146	2713 2713
1725 rpm INPUT 20000 (T) OUTPUT .086 rpm	1800 1200 600 100	0.090 0.060	40	20	25	0.232 0.179	10550 10550	1/4 10550 *			146 146	2713 2713
1725 rpm INPUT 30000 (T) OUTPUT .058 rpm	1800 1200 600 100	0.060 0.040	40	25	30	0.237 0.184	11380 11270	1/4 11380 *			146 146	2713 2713
1725 rpm INPUT 40000 (T) OUTPUT .043 rpm	1800 1200 600 100	0.045 0.030	40	40	25	0.211 0.165	10550 10550	1/4 10550 *			146 146	2713 2713
1725 rpm INPUT 50000 (T) OUTPUT .035 rpm	1800 1200 600 100	0.036 0.024	50	40	25	0.212 0.167	10550 10550	1/4 10550 *			146 146	2713 2713
1725 rpm INPUT 60000 (T) OUTPUT .029 rpm	1800 1200 600 100	0.030 0.020	60	40	25	0.189 0.148	10550 10550	1/6 8429			146 146	2713 2713
1725 rpm INPUT 75000 (T) OUTPUT .023 rpm	1800 1200 600 100	0.024 0.016	25	50	60	0.180 0.140	8864 8864	1/6 5854			146 146	2713 2713
1725 rpm INPUT 80000 (T) OUTPUT .022 rpm	1800 1200 600 100	0.023 0.015	40	40	50	0.189 0.147	9439 9439	1/6 6700			146 146	2713 2713
1725 rpm INPUT 90000 (T) OUTPUT .019 rpm	1800 1200 600 100	0.020 0.013	30	50	60	0.172 0.133	8864 8864	1/6 7665			146 146	2713 2713
1725 rpm INPUT 100000 (T) OUTPUT .017 rpm	1800 1200 600 100	0.018 0.012	50	40	50	0.190 0.149	9439 9439	1/6 6825			146 146	2713 2713
1725 rpm INPUT 150000 (T) OUTPUT .012 rpm	1800 1200 600 100	0.012 0.008	50	50	60	0.173 0.135	8864 8864	1/6 8864			146 146	2713 2713
1725 rpm INPUT 180000 (T) OUTPUT .010 rpm	1800 1200 600 100	0.010 0.007	60	50	60	0.158 0.094	8864 8864	1/6 8864 *			146 146	2713 2713

★Numbers shown in () are exact ratios.

*Motor H.P. exceeds reducer capacity. Output must be limited to torque shown.

- H Center Distance: Primary (Helical) 1.875" Secondary (Worm) 5.167"
D Center Distance: Primary 2.625" Secondary 5.167"
Maximum NEMA Motor Frame Size: 184C - 145TC Flange.
T Center Distance: Primary 1.333" Secondary 2.625" Third 5.167"
Maximum NEMA Motor Frame Size: 56C Flange.

REDUCER NO.

9

OVERHUNG LOAD RATINGS

**OVERHUNG AND THRUST LOAD-SHAFTS (INCLUDES MOTORIZED WHERE APPLICABLE)

CVX — CVD CVT		LD - LX		LD - LX		CVX-CVD-CVT		SFD-SFT-STD			OVERALL RATIO
OUTPUT O.H.L.		OUTPUT O.H.L.		OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST DOWN	OUTPUT THRUST UP	OUTPUT THRUST TOWARDS BASE	OUTPUT THRUST AWAY FROM BASE	OUTPUT O.H.L. ↑ ↑	
UP	DOWN	UP	DOWN								
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 5000 (T) OUTPUT .345 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 7500 (T) OUTPUT .230 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 10000 (T) OUTPUT .173 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 20000 (T) OUTPUT .086 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 30000 (T) OUTPUT .058 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 40000 (T) OUTPUT .043 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 50000 (T) OUTPUT .035 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 60000 (T) OUTPUT .029 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 75000 (T) OUTPUT .023 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 80000 (T) OUTPUT .022 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 90000 (T) OUTPUT .019 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 100000 (T) OUTPUT .017 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 150000 (T) OUTPUT .012 rpm
2713 2713	2670 2670					5689 5689	3920 3920	5050 5050	4848 4848	3636 3636	1725 rpm INPUT 180000 (T) OUTPUT .010 rpm

**Overhung Load given at one shaft diameter
from housing or mounting flange.

† O.H.L. based on maximum bore. Use of
smaller diameter shaft may limit O.H.L.

† 10.438" from centerline.

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