

Zy-Gear Product Range Quick Reference Guide

Worm Gear Operator Range and Specifications

Gear Code (Pg. #)	Maximum Output Torque (ft. lb.)	Travel at Both Ends (Degree)	Gear Ratio	Number of Turns to Close	Mechanical Advantage (+/-10%)	Maximum Round Bore and Keyway (in.)	Mount. Patt. Straddle Centerline MSS-SP 101 (in.)	Minimum Mounting Pattern (in.)	Maximum Mounting Pattern (in.)	Approx. Wt. w/o Handwheel (lb.)
WG008 (Pg. 4)	1160	90 +/-5	50:1	12.5	14.5	Ø 2.13 1/2 x 3/8 key	F14, (4) 5/8 - 11 UNC ON 5.50 B.C.	3.68	6.43	31
WG108 (Pg. 5)	1500	90 +/-5	72:1	18.5	14.9	Ø 2.50 5/8 x 7/16 key	FA16, (4) 3/4 - 10 UNC ON 6.50 B.C.	4.43	8.86	44
WG208 (Pg. 6)	3300	90 +/-5	68:1	17	18.4	Ø 3.43 7/8 x 5/8 key	FA19, (8) 5/8 - 11 UNC ON 7.50 B.C.	6.25	10	88
WG308 (Pg. 7)	9800	90 +/-5	275:1	68.75	56.7	Ø 4.31 1 x 3/4 key	FA25, (8) 5/8 - 11 UNC ON 10.00 B.C.	7.38	11.81	201
WG408 (Pg. 8)	32,000	90 +/-5	700:1	175	142.4	Ø 6.25 1/2 x 1 key	FA35, (8) 1 - 8 UNC ON 14.02 B.C.	9.75	14	443

Bevel Gear Operator Range and Specifications

Gear Code (Pg. #)	Maximum Output Torque (ft. lb.)	Gear Ratio	Mechanical Advantage (+/-10%)	Maximum Stem Dia. w/Stem Protector (in.)	Minimum Stem Dia. w/o Stem Protector (in.)	Traditional Mount. Patt. (as shown) (in.)	Minimum Mounting Pattern (in.)	Maximum Mounting Pattern (in.)	Approx. Wt. w/o Handwheel (lb.)
BG107 (Pg. 10)	1000	2.92:1	2.63	Ø 2.63	Ø 2.63	(4) 1/2-13 UNC on 7.63 B.C. on Centerline	4.63	8.25	42
BG207 (Pg. 11)	2000	4.07:1	3.66	Ø 3.950	Ø 4.125	(8) 1/2-13 UNC on 7.63 B.C. on Centerline	7.62	10.25	75
BG307 (Pg. 12)	4000	6:1	5.40	Ø 3.95	Ø 4.3	(8) 1/2-13 UNC on 7.63 B.C. on Centerline (8) 1-8 UNC on 14.00 B.C. Straddle Centerline	7.63	14.25	174

Handwheel Diameters and Extensions (in.) (Extension measured from stem centerline to outer rim of wheel)

Gear	Dia.	Ext.	Dia.	Ext.	Dia.	Ext.
WG008	18	9.8	24	13.3	30	14.3
WG108	18	11.5	24	14.9	30	15.9
WG208	18	13.6	24	17.1	30	18.1
WG308	18	17.4	24	20.8	30	21.9
WG408	18	21.2	24	24.6	30	25.7

Gear	Dia.	Dia.	Dia.
BG107	18	24	30
BG207	18	24	30
BG307	18	24	30