



MASTERGEAR
WORLDWIDE

QUARTER TURN TECHNICAL DATA

MANUAL UNITS

Description	Output Torque (in-lb)	Output Torque (N-m)	Mechanical Advantage	Turns to Close	Bore Diameter (in. max)	Bolt Pattern*	Stem Entry (in. max)	Stem Entry w/ Ext. Ind Cap
M07	2,640	298	11	10.0	0.98	F/FA05, F/FA07 FB(F/FA10)	2.01 FB(2.2)	
M10	5,280	597	11	10.0	1.26	F/FA07, F/FA10 FB(F/FA14)	2.24 FB(2.52)	3.42
M12	10,560	1,193	11.3	10.5	1.77	F/FA10, F/FA12, F/FA14 FB(F/FA16)	2.83 FB(3.189)	4.4
M14	19,360	2,188	16.2	15.0	2.56	F/FA12, F/FA14, F/FA16 FB(F/FA19)	3.19 FB(3.27)	4.76
M15	36,080	4,077	20.5	17.0	3.39	F/FA14, F/FA16, F/FA20 FB(F/FA25)	3.62 FB(3.62)	5.59
M16	47,520	5,370	26.5	22.0	3.62	F/FA16, F/FA20, F/FA25	4.45	6.42
M20	71,100	8,034	57	45.8	3.62	F/FA16, F/FA20, F/FA25	4.57	6.54
M30	115,500	13,052	99	77.3	4.88	F/FA19, F/FA20, F/FA25, F/FA30	5.669	
M40	213,240	24,096	188.7	153.8	6.50	F/FA25, F/FA30, F/FA35, F/FA40	7.99	
M50	444,250	50,200	384.6	305.0	7.09	F/FA25, F/FA30, F/FA35, F/FA40, F/FA48	9.84	
M55	840,000	94,920	346.1	305.0	7.09	F/FA25, F/FA30, F/FA35, F/FA40, F/FA48	9.84	
M60	1,195,000	135,035	1102.2	852.0	9.50	F/FA40, F/FA48	13.50	
M70	1,800,000	203,400	735.1	852.0	9.50	F/FA40, F/FA48	13.50	
M125/DB9/D9	2,304,000	260,317	1052.7	1138.9	10.83	F/FA48, F/FA60	12.99	
M160/DB9/D9	2,730,000	308,449	1314.7	1423.6	12.20	F/FA48, F/FA60	14.37	
M200/DB9/D9	3,243,000	366,410	1623.7	1769.4	13.78	F/FA60	15.87	

OUTPUT FLANGES

Flange	# of Holes	B.C.D
FA05	4	1.968
FA07	4	2.756
FA10	4	4.016
FA12	4	4.921
FA14	4	5.512
FA16	4	6.496
FA20	8	7.755
FA25	8	10.000
FA30	8	11.732
FA35	8	14.016
FA40	8	15.984
FA48	12	19.016
FA60	20	23.740

NOTES:

- 1) * FB = Flare-base
- 2) All Units Available in Ductile Iron
- 3) Alternate Spur Ratios Available for Sizes M20 & Above, Contact Factory for Details

Release Date: 6/14/2010



MASTERGEAR WORLDWIDE

QUARTER TURN TECHNICAL DATA

MOTORIZABLE UNITS

<i>Description</i>	Available Motor Flanges	Output Torque* (in-lb)	Output Torque (N-m)	Mech. Advant.	Turns to Close	Bore Diameter (in. max)	Bolt Pattern**	Stem Entry (in. max)	Stem Entry w/ Ext. Ind Cap (in.)
MF10	F/FA07, F/FA10	4,400	497.2	11	10.0	1.26	F/FA07, F/FA10 FB(F/FA14)	2.24 FB(2.52)	3.42
MF12	F/FA10	8,800	994.4	11.3	10.5	1.77	F/FA10, F/FA12, F/FA14	2.83 FB(3.189)	4.40
MF14	F/FA10	16,000	1,808	16.2	15.0	2.56	F/FA12, F/FA14, F/FA16	3.19 FB(3.27)	4.76
MF15	F/FA10, F/FA14	30,000	3,390	20.5	17.0	3.39	F/FA14, F/FA16, F/FA20	3.62 FB(3.62)	5.59
MF16	F/FA10, F/FA14	39,600	4,474.8	26.5	22.0	3.62	F/FA16, F/FA20, F/FA25	4.45	6.42
MF20	F/FA10	58,650	6,627.5	57	45.8	3.62	F/FA16, F/FA20, F/FA25	4.57	6.54
MF30	F/FA10	96,000	10,848	99	77.3	4.88	F/FA19, F/FA20, F/FA25, F/FA30	5.669	
MF40	F/FA10	177,702	20,080	188.7	153.8	6.50	F/FA25, F/FA30, F/FA35, F/FA40	7.99	
MF50	F/FA10	370,242	41,837	384.6	305.0	7.09	F/FA:25,30, 35, 40, 48	9.84	
MF55	F/FA10	700,000	79,100	346.1	305.0	7.09	F/FA:25,30, 35, 40, 48	9.84	
MF60	F/FA10, F/FA14	996,000	112,548	1102.2	852.0	9.50	F/FA40, F/FA48	13.5	
MF70	F/FA10, F/FA14	1,500,000	169,500	735.1	852.0	9.50	F/FA40, F/FA48	13.50	
M125/DB9/D9	F/FA10, F/FA14	1,600,000	180,776	1052.7	1138.9	10.83	F/FA48, F/FA60	12.99	
M160/DB9/D9	F/FA10, F/FA14	1,920,000	216,960	1314.7	1423.6	12.20	F/FA48, F/FA60	14.37	
M200/DB9/D9	F/FA10, F/FA14	2,400,000	271,200	1623.7	1769.4	13.78	F/FA60	15.87	

OUTPUT FLANGES

Flange	# of Holes	B.C.D	Flange	# of Holes	B.C.D
FA05	4	1.968	FA25	8	10.000
FA07	4	2.756	FA30	8	11.732
FA10	4	4.016	FA35	8	14.016
FA12	4	4.921	FA40	8	15.984
FA14	4	5.512	FA48	12	19.016
FA16	4	6.496	FA60	20	23.740
FA20	8	7.755			

NOTES:

1) Right Angle Bevel, Bolt-on Spurs & Additional input flanges available, Contact Factory for Details.

2) * Output Rating based on the following Cycles:

MF10 - MF30: 5000 Cycles

MF40 - MF55: 2500 Cycles

MF60 and Above: 1200 Cycles

3) ** FB = Flare-base