

Torque Wrench



NON RATCHETING TORQUE WRENCH



RATCHET TORQUE WRENCH

MODEL		TORQUE RANGE				SQUARE DRIVE	OVERALL LENGTH
Non Ratchet	Ratchet	Nm	Kgfm	Lb In	Lb Ft	Inc	MM
MTW-100A	MTWR-100A	2.5-11	0.3-11	20-100	2-8	3 / 8	317
MTW-300A	MTWR-300A	5-33	0.5-3.4	40-300	4-24	3 / 8	422
MTW-600A	MTWR-600A	12-68	1.2-7	100-600	10-50	1 / 2	476
MTW-1200A	MTWR-1200A	25-135	3-14	200-1200	20-100	1 / 2	546
MTW-2000A	MTWR-2000A	50-225	5-23	400-2000	40-160	1 / 2	597
MTW-3000A	MTWR-3000A	70-330	7-35	600-3000	50-250	1 / 2	825
MTW-5000A	MTWR-5000A	140-560	14-57	1200-5000	100-410	3 / 4	1130
MTW-6000A	MTWR-6000A	135-750	14-75	1200-6000	100-500	3 / 4	1080
MTW-8400A	MTWR-8400A	480-940	49-95	4200-8400	350-700	1	1397
MTW-12300A	MTWR-12300A	700-1400	71-140	6000-12300	500-1000	1	1505
MT - 1000	MTR - 1000	1000-1900	105-195	---	750-1400	1	1260
MT - 1350	MTR - 1350	1350-2700	135-275	---	1000-2000	1	1470

APPLICATION Automobile Industries, Heavy Engineering, Petrochemicals, Fertilizers, Aeronautics & Defence Organization, etc.

Torque Multiplier

A torque multiplier is specially designed to increase the torque that can be applied by an operator. Because the power output cannot exceed the power input, the number of output revolutions will be lower than the number of input revolutions (Torque x rpm = Power)

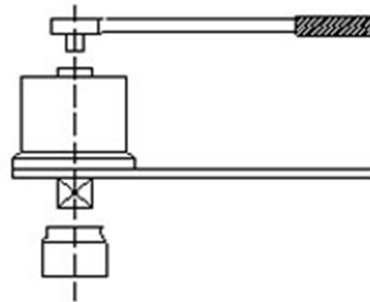
Torque multipliers incorporate an 'epicyclic' or 'planetary' gear train includes of one or more stages. Each stage of gearing increases the torque applied by a factor of 5.

In the planetary gear system, torque is applied to the input gear or 'sun' gear. Three or four planet gears whose teeth are engaged with the sun gear therefore rotate. The outside casing of the multiplier, or 'annulus' is also engaged with the planet gear teeth, and would normally rotate in the opposite direction to the sun gear. A reaction arm prevents the annulus from rotating, and this causes the planet gears to orbit around the

sun. The planet gears are held in a 'planetary' carrier which also holds the output square drive. Therefore as the planet gears orbit around the sun, the carrier and so the square drive turns. Without the reaction arm to keep the annulus stationary, the output square will not apply torque.

MAHESH TORQUE MULTIPLIERS are heavy duty, used to increase the torque produced by Torque Wrenches. They are developed to meet the high torque requirements and keeping in view space restrictions in Torque Wrench applications to tightening of high tensile bolts.

Torque Multiplier are available in multiplication factors of 5:1 & 25:1. Torque Multiplier covers torque requirements from 100 kg mtr – 925 kg mtr.



MODEL	Maximum Output torque			Bolt capacity		Multi- plication Factor	Sq Female Input	Sq Male Input	Major Dia	Depth	Torque wrench Applicable	Weight with Reaction Plate (Kg)
	KgfM	Lbft	Nm	inch	MM		inch	inch				
MTM-1	170	1250	1700	1 .1/8	28	5	½	¾	115	85	MTW-3000A	4.5
MTM-2	170	1250	1700	1 .1/8	28	5	¾	1	115	93	MTW-3000A	5.0
MTM-2/25	170	1250	1700	1 .1/8	28	25	½	1	115	120	MTW-600A	7.0
MTM-5	275	2000	2700	1 .3/8	35	5	¾	1	136	100	MTW-5000A	8.0
MTM-5/25	275	2000	2700	1 .3/8	35	25	½	1	136	130	MTW-1200A	11.0
MTM-6	345	2500	3400	1 .1/2	38	5	¾	1 1/2	136	105	MTW-8400A	8.5
MTM-6/25	345	2500	3400	1 .1/2	38	25	½	1 1/2	136	130	MTW-1200A	11.5
MTM-7	622	4500	6000	2 .1/2	62	5	¾	1 1/2	168	125	MTW-12300A	15.5
MTM-7/25	622	4500	6000	2 .1/2	62	25	½	1 1/2	168	180	MTW-3000A	19.5
MTM-9/25	965	7000	9500	3	75	25	¾	1 1/2	220	170	MTW-5000A	27.0