



# TORQUE TOOLS

## TORC STAR TORQUE MULTIPLIER

**A Powerful Robust, Versatile, Portable and Accurate Tool:**

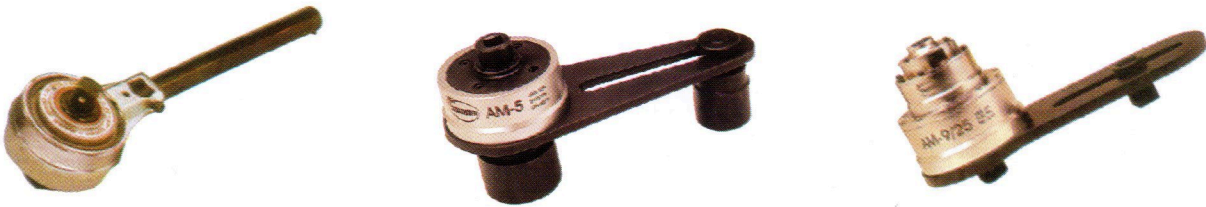
Torc Star Torque Multipliers provide extra mechanical advantage needed to tighten or loosen stubborn nuts and bolts located in cramped or (in accessible) positions. A Manual Tool, particularly recommended where no compressed air/electric power available for use of Power Tools.

Torc Star Torque Multipliers increase the Torque capacity of Torque Wrenches, Hand Ratchets/Wheel Braces at the input end by a factor depending on the model selected. This enables the operator to achieve high levels of Torque safely and easily.

With continuous R & D efforts, we have two variety of Torque multipliers in our product range, the conventional 'AM' series and a more compact and light weight 'TVR' series.

A testimony on the use of Torc Star Torque multiplier from our client at Estonia, M/s. Metsateknika As.

*" We tested this tool in January 2003, Hydraulic Hammer was Krupp HM 1500 Marathon V. First Tightening of Bolts (55 mm) was 500 Nm. After that,, we had to Tighten Bolts two times 120" Degree (240 Degrees). It was really easy to do this Job with Torc Star Torque Multiplier 9/25. The Tightening arm was only 45 cm long. During final tightening, I mentioned how our mechanic smiled. It was easy to do the job only with one hand and he has really a good tool. Next day I told about this experience to our good friends in Finland - Jasto Oy. They are selling Atlas Copco and Krupp Hydraulic Hammers in Finland. Now the are also thinking about buying this Torque Multiplier." Mr. Harri Ummik.*



HAND TORQUE MODEL NO.	MAXIMUM OUTPUT TORQUE			EST. BOLT CAPACITY (S. QUALITY)		MULT-PLICATION FACTOR	FEMALE INPUT SQUARE	MALE OUTPUT SQUARE	MAJOR DIA	DEPTH	RECOMMENDED TORQUE WRENCH	APPROX WEIGHT WITH REACTION PLATE
	Lbft.	Nm.	Kgf.m.	In	mm							
AM-1	1250	1700	170	1.1/8	27	5	1/2	3/4	115	87	TVTR-3000A	4.5
AM-2	1250	1700	170	1.1/8	27	5	3/4	1	115	90	TVTR-3000A	5.0
AM-2/25	1250	1700	170	1.1/8	27	25	1/2	1	115	120	TVT-600A	7.0
AM-5	2000	2700	275	1.3/8	36	5	3/4	1	136	91	TVTR-5000A	8.0
AM-5/25	2000	2700	275	1.3/8	36	25	1/2	1	136	120	TVT-1200A	11.0
AM-6	2500	3400	345	1.1/2	38	5	3/4	1.1/2	136	91	NT-40/S	8.5
AM-6/25	2500	3400	345	1.1/2	38	25	1/2	1.1/2	136	120	TVT-1200A	11.5
AM-7	4500	6000	622	1.7/8	48	5	3/4	1.1/2	168	115	NT-55	15.5
AM-7/25	4500	6000	622	1.7/8	48	25	1/2	1.1/2	168	190	TVT-3000A	19.5
AM-9/25	7000	9500	965	2.1/4	56	25	3/4	2.1/2	220	225	TVT-5000A	27.0
AM-11/25	11060	15000	1500	3.3/4	68	25	3/4	2.1/2	220	280	NT-14/S	45.0



Model No.	Gear Ratio	Torque Capacity Max.		Height mm (C)	Diameter mm (D)	Weight Kgs.	Input Drive (A)	Out put Drive (B)	Suitable for Bolt size	
		Ft. Lbs	Nm						Thd. Size	A/F
TVR-15	4.5 : 1	1000	1355	175	80	3.0	1/2"	1"	M16 - M27	24 - 41
TVR-25	12 : 1	1350	1630	310	80	5.2	3/4"	1"	M20 - M30	30 - 46
TVR-35	15 : 1	2125	2880	285	80	5.1	3/4"	1"	M20 - M36	30 - 55
TVR-40	15 : 1	2360	3200	245	95	6.1	3/4"	1.1/2"	M20 - M39	30 - 60
TVR-65	21 : 1	3660	4960	240	114	8.4	3/4"	1.1/2"	M27 - M42	41 - 65
TVR-90	40 : 1	5075	6880	300	172	21.5	3/4"	1.1/2"	M33 - M48	50 - 75



Please observe safety advices