

HANDTORQUE

TORQUE MULTIPLIERS



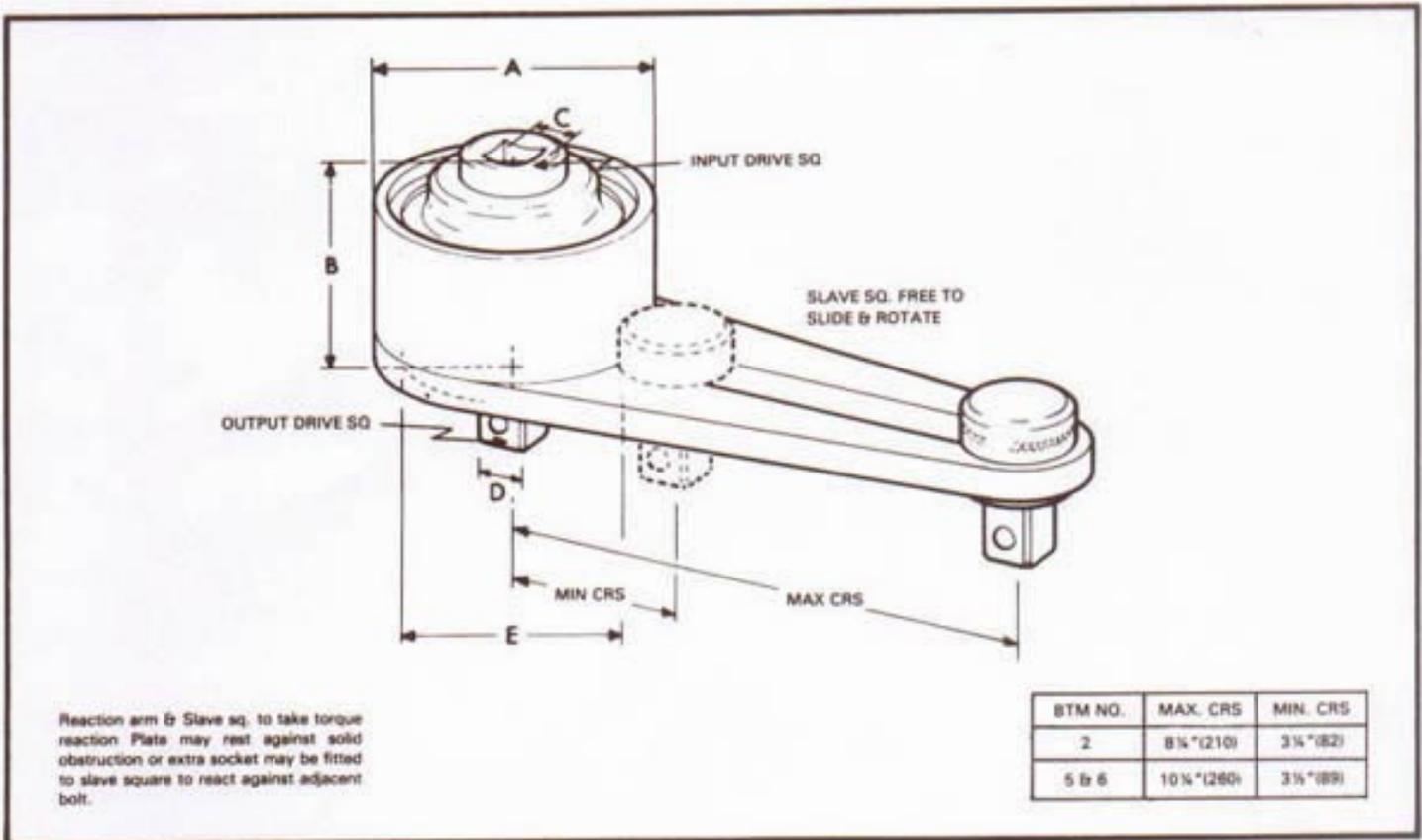
POWER

to tighten or loosen
the toughest nut or bolt

HAND TORQUE MULTIPLIERS

ADVANTAGES:-

- One man can tighten or loosen the toughest nut or bolt with complete safety.
- Compact, efficient design provides greater ease and safety in handling and operating.
- Designed to be used with standard tools, hand torque and air-driven non-impact type wrenches.
- Planetary gears and all alloy steel construction assure minimum mechanical loss through distortion.
- A standard sliding reaction bar meets practically all normal requirements. Special reaction bars can be provided.



Hand Torque Model	Maximum Output Torque			Estimated Bolt (S. Quality) Capacity		Multi- plication Factor	'C' Female Input Square in.	'D' Male Output Square in.	'A' Major Dia mm.	'B' Depth mm.	Recomm- ended Torque Wrench No.	Approx. Weight with Reaction Plate (Kg.)
	lbf. ft.	Nm.	Kgf. m.	in.	mm.							
BTM-1	1250	1700	170	1 1/4	28	5	1/2	3/4	115	85	TQW/6A	4.5
BTM-2	1250	1700	170	1 1/4	28	5	3/4	1	115	93	TQW/6B	5.0
BTM-2/25	1250	1700	170	1 1/4	28	25	1/2	1	115	120	TQW/3	7.0
BTM-5	2000	2700	275	1 3/8	35	5	3/4	1	136	100	TQW/7	8.0
BTM-5/25	2000	2700	275	1 3/8	35	25	1/2	1	136	130	TQW/4	11.0
BTM-6	2500	3400	345	1 1/2	38	5	3/4	1 1/2	136	105	TQW/8	8.5
BTM-6/25	2500	3400	345	1 1/2	38	25	1/2	1 1/2	136	130	TQW/4	11.5
BTM-7	4500	6000	622	2 1/2	62	5	3/4	1 1/2	168	125	TQW/9	15.5
BTM-7/25	4500	6000	622	2 1/2	62	25	1/2	1 1/2	168	180	TQW/6A	19.5
BTM-9/25	7000	9500	968	3	75	25	3/4	1 1/2	195	165	TQW/7	25.0

HAND TORQUE MULTIPLIERS

'HTM' SERIES WITH HANDLE.



POWERMASTER TORQUE MULTIPLIERS are compact alloy steel, epicyclic gear units, designed for tightening and loosening of nuts and bolts and for providing very high torque economically.

All standard single stage Gear Units are having a multiplication factor of 5:1. The Gear Units can be compounded to give 25:1 and 125:1 multiplications.

Output Torque = Input Torque \times Multiplication Factor.

POWERMASTER TORQUE MULTIPLIER is interposed between a standard, Torque Wrench and Socket, and the reaction plate/bar is allowed to rest against any convenient solid projection. The operator then has effective leverage of Torque Wrench five times the length of the tool being applied to the input side of the gear unit.

POWERMASTER TORQUE MULTIPLIER having ratio 5:1 provides the equivalent of 4 extra helpers for every user.

In limited work areas use of Torque Multiplier generates high torque, with precision and ease. In many cases it eliminates dismantling of near by equipment.

Thousands of Torque Multipliers are in use throughout the World as Maintenance, Production, or Service Equipment wherever high torque appliances are needed.

TORQUE MULTIPLIERS CAN ALSO BE USED TO EASE MANUAL TUBE EXPANSION IN DRUMS OF WATER TUBE BOILERS OR TO EXPAND TUBES IN RESTRICTED SPACE.

FEATURES

1. Models available ranging from 100 to 622 Kg. M.
2. Accurate to within $\pm 3\%$ of desired torque.
3. Compact-small and light.
4. Models available in 5:1, 25:1 and 125:1 multiplication ratios.
5. Standard slide mount reaction bar adapts readily to most applications.
6. Special reaction arms available for difficult applications.

BENEFITS

1. Cover small bolting as well as the larger applications because of the wide range of available models.
2. Uniformity of bolting, minimum flange distortion, and less likelihood of leaks. No other multiplier this accurate.
3. Cuts down on manpower requirements—saves money as a result.
4. In high torque applications, final torques are reached with very low input torque. With higher ratio multipliers, less worker fatigue.
5. No special reaction bars necessary for blind flanges, heat exchanger, channel covers, etc.
6. Capability of providing reaction bar for any application.

TORQUE WRENCH



Torque Wrench or Ratchet for fixing to the Torque Multiplier input.

Powermaster Torque Wrenches available in 7 Models. Please refer catalogue no. 012

SOCKETS



Socket for fixing to the Torque Multiplier output.

Various sizes of Powermaster Sockets are available. These Sockets are interposed between Torque Multiplier output and the bolt head. Please specify Sockets sizes.

POWERMASTER

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LFT No. 011