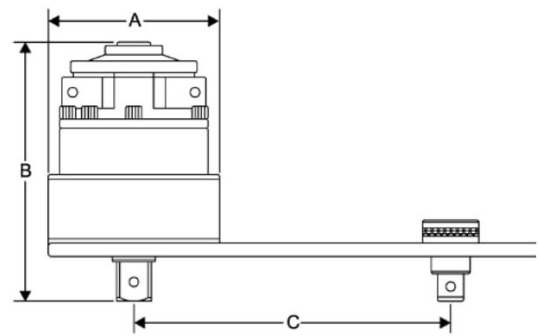


HORIZONTAL TYPE

Technotorc gearboxes are built to an extremely high standard of precision. All gears rotate on needle roller bearings about hardened and ground journal pins. As a result, Technotorc multiplier torques can be relied upon to have a torque multiplication accuracy of +/-5%, throughout the operating range, taking the uncertainty out of high torque tightening.

No gearbox is 100% efficient and so the velocity ratio (the number of turns that the input has to make to achieve one revolution of the output) is not the same as the torque multiplication ratio. Technotorc multipliers are engineered such that each gear stage has a velocity ratio of typically 5.45:1 which results in a true torque multiplication factor of 5:1. Torque output calculations are therefore a matter of simple arithmetic with little risk of incorrect bolt loading due to conversion errors. Other manufacturer's multipliers often require graphs or formulae to calculate the input torque to achieve a particular output.

Std products are available up to 47,500 N•m (35,000 lbf•ft) and 'specials' to 300,000 N•m (220,000 lbf•ft).



TECHNOTORC HAND TORQUE MULTIPLIER

| Hand Torque Model | Maximum Output Torque | | | Estimated Bolt Capacity | | Multiplication Factor | Female Input Square | Male Output Square | Major Dia | Height | Min | Max | Approx Wt. with Reaction Plate |
|-------------------|-----------------------|-------|-------|-------------------------|-----|-----------------------|---------------------|--------------------|-----------|--------|-----|-----|--------------------------------|
| | Ft.lbs | Nm | Kgf.m | in | mm | | | | | | | | |
| HTM-1 | 1250 | 1700 | 170 | 1.1/8 | 27 | 5 | 1/2 | 3/4 | 115 | 87 | 75 | 164 | 4.5 |
| HTM-2 | 1250 | 1700 | 170 | 1.1/8 | 27 | 5 | 3/4 | 1 | 115 | 90 | 75 | 164 | 5 |
| HTM-2/25 AWUR | 1250 | 1700 | 170 | 1.1/8 | 27 | 25 | 1/2 | 1 | 115 | 120 | 75 | 164 | 7 |
| HTM-5 | 2000 | 2700 | 275 | 1.3/8 | 36 | 5 | 3/4 | 1 | 136 | 135 | 89 | 260 | 11 |
| HTM-5/25 AWUR | 2000 | 2700 | 275 | 1.3/8 | 36 | 25 | 1/2 | 1 | 136 | 163 | 89 | 260 | 11 |
| HTM-6 | 2500 | 3400 | 345 | 1.1/2 | 38 | 5 | 3/4 | 1.1/2 | 136 | 149 | 105 | 260 | 8.5 |
| HTM-6/25 AWUR | 2500 | 3400 | 345 | 1.1/2 | 38 | 25 | 1/2 | 1.1/2 | 136 | 176 | 105 | 260 | 11.5 |
| HTM-7 | 4500 | 6000 | 622 | 1.7/8 | 48 | 5 | 3/4 | 1.1/2 | 168 | 174 | 115 | 310 | 18 |
| HTM-7/25 AWUR | 4500 | 6000 | 622 | 1.7/8 | 48 | 25 | 1/2 | 1.1/2 | 168 | 226 | 115 | 310 | 22 |
| HTM-9/25 AWUR | 7000 | 9500 | 965 | 2.1/4 | 56 | 25 | 3/4 | 1.1/2 | 195 | 256 | 150 | 350 | 33 |
| HTM-9/125 AWUR | 7000 | 9500 | 965 | 2.1/4 | 56 | 125 | 1/2 | 1.1/2 | 195 | 301 | 150 | 350 | 35.5 |
| HTM-11/25 AWUR | 11060 | 15000 | 1500 | 3.3/4 | 95 | 25 | 3/4 | 2.1/2 | 220 | 360 | 164 | 480 | 52 |
| HTM-11/125 AWUR | 11060 | 15000 | 1500 | 3.3/4 | 95 | 125 | 1/2 | 2.1/2 | 220 | 404 | 164 | 480 | 57 |
| HTM-13/125 AWUR | 35000 | 47500 | 4750 | 4.1/2 | 115 | 125 | 3/4 | 2.1/2 | 315 | 550 | 164 | 480 | 80 |