

## TTi Wrench

### Models 60 N.m to 300 N.m (45 lbf.ft to 220 lbf.ft)

In engineering this range, Norbar has paid close attention to accuracy, ease of setting and comfort in use.

Durability has been a primary development goal – both in terms of the lifetime of components and longevity of calibration accuracy. Cycle testing of wrenches at full torque was a key element of the development process and, in total, several million tightening cycles were accumulated. The result is a product that you can use with complete confidence that you have the best tool for the job.

- Accuracy:  $\pm 3\%$  of reading exceeds all international standards for torque wrenches. Each wrench is supplied with a traceable calibration certificate.
- Micrometer scale for simple and error free setting. (On dual scale wrenches, the micrometer increment applies to the N.m scale.)
- Quick and light adjustment: adjustment over the entire scale can be achieved with minimal effort in approximately ten complete turns (exact number varies by model).
- Adjustment lock: all models feature a lock to prevent accidental adjustment of the set torque.
- Versatile ratchets: the tough ratchets have a narrow engagement angle of between  $5^\circ$  and  $7.5^\circ$  across the range, allowing easy positioning of the tool in the tight confines of today's vehicles and machines.
- Bi-directional torque: the ratchets are 'push through' meaning that these wrenches will provide torque control in both the clockwise and anticlockwise directions.
- Comfortable, durable handle: the handle is constructed using two materials: a base material for strength overlaid with a soft feel grip for comfort and slip resistance. The handle material and lens resist chemicals in common usage in the automotive, aviation and industrial environments.



Adjustment is achieved by rotating the end knob. The centre ring provides the lock feature.



### Ratchet Adjustables - Dual Scale

Model	Square Drive	Part No.	Range		Resolution	Ratchet Diameter	Engagements per revolution	Length	Weight
	in		N.m	lbf.ft	N.m	mm		mm	Kg
TTi60	$\frac{3}{8}$	13679	12 – 60	10 – 45	0.25	38	48	348	0.9
TTi60	$\frac{1}{2}$	13680	12 – 60	10 – 45	0.25	38	48	348	0.9
TTi100	$\frac{3}{8}$	13440	20 – 100	15 – 75	0.5	38	48	405	1.0
TTi100	$\frac{1}{2}$	13441	20 – 100	15 – 75	0.5	38	48	405	1.0
TTi150	$\frac{1}{2}$	13442	30 – 150	20 – 110	0.5	38	48	455	1.1
TTi200	$\frac{1}{2}$	13443	40 – 200	30 – 150	1.0	46	48	505	1.2
TTi250	$\frac{1}{2}$	13444	50 – 250	40 – 185	1.0	46	60	560	1.4
TTi300	$\frac{1}{2}$	13445	60 – 300	45 – 220	1.0	46	60	610	1.6

N.m only and lbf.ft only versions are available, contact Norbar for details.