

# Torque Wrenches

## TT Wrench

Models 20 N.m and 50 N.m (180 lbf.in and 35 lbf.ft)

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: +/-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 quickly be achieved and 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 are reversible and have a narrow engagement angle of 5° to allow easy positioning of the tool in the tight confines of today's vehicles and machines.
- 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.



Norbar Non-Magnetic torque wrenches are designed primarily for the medical MRI scanner market. However, they will prove invaluable where ever a torque wrench has to be used in the presence of a strong magnetic field. There are currently two models: 1 - 20 N.m, Part Number 13292 and 8 - 50 N.m, Part No. 13293.



### 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
TT20	¼	13262	1 – 20	10 – 180*	0.05	30	72	230	0.4
TT20	⅜	13263	1 – 20	10 – 180*	0.05	30	72	230	0.4
TT50	⅝	13264	8 – 50	6 – 35	0.1	30	72	278	0.5
TT50	¾	13265	8 – 50	6 – 35	0.1	30	72	278	0.5

\* lbf.in

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





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## TT Wrench Models 100 N.m to 300 N.m (75 lbf.ft to 250 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: +/-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 quickly be achieved and 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 are reversible and a narrow engagement angle of 6° to allow easy positioning of the tool in the tight confines of today's vehicles and machines.
- Bi-directional Torque: the ratchets are also '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.



The TT wrench is available with either dual scale (N.m and lbf.ft) or single scale (N.m or lbf.ft)



### 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
TT100	3/8	13266	20 – 100	15 – 75	0.5	38	60	403	1.0
TT100	1/2	13267	20 – 100	15 – 75	0.5	38	60	403	1.0
TT150	1/2	13268	30 – 150	20 – 110	0.5	38	60	455	1.1
TT200	1/2	13269	40 – 200	30 – 150	1.0	46	60	505	1.2
TT250	1/2	13270	50 – 250	40 – 185	1.0	46	60	560	1.4
TT300	1/2	13271	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.

# Torque Wrenches

## TTi Wrench

Models 50 N.m to 300 N.m (35 lbf.ft to 220 lbf.ft)

TTi wrenches feature the same accuracy, ease of setting and comfort in use as the regular TT models. They add to this formula non-reversible push through ratchets which are ultra robust and very simple to use. Body tubes and ratchets are finished in an attractive and durable satin chrome plate.

- Accuracy: +/-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 quickly be achieved and 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 5° on the TTi50 and 6° on all other models 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
TTi50	3/8	13438	10 – 50	8 – 35	0.1	30	48	350	0.86
TTi50	1/2	13439	10 – 50	8 – 35	0.1	30	48	350	0.86
TTi100	3/8	13440	20 – 100	15 – 75	0.5	38	48	405	1.0
TTi100	1/2	13441	20 – 100	15 – 75	0.5	38	48	405	1.0
TTi150	1/2	13442	30 – 150	20 – 110	0.5	38	48	455	1.1
TTi200	1/2	13443	40 – 200	30 – 150	1.0	46	48	505	1.2
TTi250	1/2	13444	50 – 250	40 – 185	1.0	46	60	560	1.4
TTi300	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.

