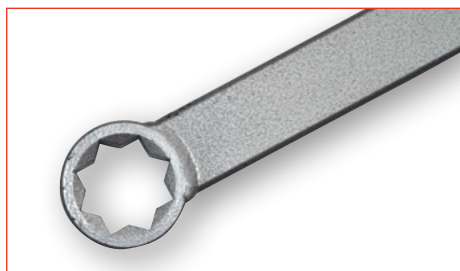




INDUSTRIAL TORQUE WRENCH - BI-SQUARE



The 1 $\frac{1}{4}$ " Bi-Square Industrial Torque Wrench variant has been engineered specifically for rail track maintenance applications. By fitting directly onto rail fishplate bolts, it eliminates the need for sockets or square drives. This design supports the rail industry's stringent safety objective of preventing foreign objects from being left on the track.

Other versions of this tool are available on request.

2	BI-SQUARE - DUAL SCALE
12026	1 $\frac{1}{4}$ " Bi-Square, 300 - 1,000 N·m, 200 - 750 lbf·ft

ELECTRODE WRENCHES



For torque tightening of Electrode Wrenches

The correct torque tightening of electrodes is known to increase the energy efficiency of electric arc furnaces and helps prevent electrode sections being lost in the furnace.

Standard torque settings are shown. These are pre-set wrenches and the torque setting is not adjustable by the customer. The torque setting will be supplied at the value shown on this page unless a different torque setting is advised at the time of ordering by the customer (in which case add part number SQ2222 and the required torque value).

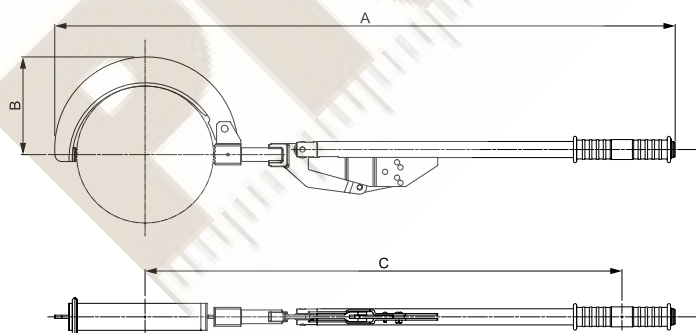
The 8" diameter electrode wrench uses the Professional torque handle as the control mechanism. Above 8" the Industrial wrench is used as the control mechanism.

9	LOW RANGE
12506	8" (200 mm) 312 N·m
12530	10" (250 mm) 542 N·m
12531	12" (300 mm) 780 N·m
SQ2222	Pre-set, etch and certify (Allow 3 days delivery for this service)

Other models available on request.

9	HIGH RANGE
12532	14" (350 mm) 1,140 N·m
12533	16" (400 mm) 1,300 N·m
12535	18" (450 mm) 1,500 N·m
12536	20" (500 mm) 2,000 N·m
12537	22" (550 mm) 2,370 N·m
12538	24" (600 mm) 2,370 N·m
SQ2222	Pre-set, etch and certify (Allow 3 days delivery for this service)

Model	8" (200 mm)	10" (250 mm)	12" (300 mm)	14" (350 mm)	16" (400 mm)	18" (450 mm)	20" (500 mm)	22" (550 mm)	24" (600 mm)
Part Number	12506	12530	12531	12532	12533	12535	12536	12537	12538
Dimensions (mm)	A	897	1,150	1,286	1,764	1,825	1,727	2,211	2,571
	B	159	194	239	288	299	336	386	398
	C	658	883	994	1,443	1,472	1,643	1,811	2,140
Weight (kg)	3.2	6.8	8.4	13.8	14.3	16.5	20.0	25.4	26.1



UKAS ACCREDITED CALIBRATION

The part numbers shown below are for a comprehensive calibration, for all new torque screwdrivers and torque wrenches up to the maximum capacity shown. Please see page 131 for Norbar's After Sales Service.

12	ONE DIRECTION
TWCC4.CW	Up to 400 N·m / 300 lbf·ft
TWCC5.CW	Up to 1,000 N·m / 750 lbf·ft
TWCC6.CW	Up to 3,000 N·m / 2,200 lbf·ft

12	TWO DIRECTIONS
TWCC4.CW+CCW	Up to 400 N·m / 300 lbf·ft
TWCC5.CW+CCW	Up to 1,000 N·m / 750 lbf·ft
TWCC6.CW+CCW	Up to 3,000 N·m / 2,200 lbf·ft



ELECTRONIC SCREWDRIVER AND TORQUE WRENCHES

ProTronic® Electronic Torque Wrenches 32

ProTronic® Plus Electronic Torque Wrenches 33

ProTronic® Plus Electronic Torque Screwdriver 34

ProTronic® Plus Model 10 and Model 30 34

ProTronic® Plus TorqApp™ 35

Spanner End Fittings for 16 mm Torque Handles 36

Spanner End Fittings for 22 mm Torque Handles 37

Spigot Accessories 37

Large Spanner End Fittings for 16 mm Spigot Torque Handles up to 300 N·m 38

Large Spanner End Fittings for 22 mm Spigot Torque Handles up to 650 N·m 39

Norbar Torque Tools offers a range of high-precision electronic torque tools including a screwdriver and an extensive selection of torque wrenches to cover torque values from 0.45 to 800 N·m.

Many of the options in this section have the capability to connect to software that more easily manages data and configures settings. These highly accurate electronic torque and angle tools are the perfect solution for applications that require precision and control.



PROTRONIC® ELECTRONIC TORQUE WRENCHES



The ProTronic® is a high precision electronic torque wrench with a large backlit LCD display, that measures accurate and consistent torque readings. It also features an audible buzzer when pre-set torque/angle value is reached.

- Dual progressive LEDs positioned both sides of the wrench provide an easy visual representation of torque progress allowing the user to more easily anticipate torque target
- Large LCD screen with bright backlight; numbers become larger and bolder during active torque for optimal viewing
- Four alert modes (LCD, progressive LED, audible, vibration) provide excellent feedback in all working conditions
- 5 easily selectable torque units: N·m, lbf·ft, lbf·in, dN·m, kg·cm and kg·m (200 N·m and above)
- The ability to programme up to 10 pre-sets in the tool saves time in setting up frequently occurring applications
- A wide range of advanced features (cycle counter, customisable sleep timer, language selection, auto torque calculation for torque adaptors, calibration alerts, battery level indication, and numerous alert mode customisations) allow the user to tailor the tool to their work preferences
- Torque THEN Angle mode gives the user the ability to conveniently apply an angle to a fastener directly after achieving a torque target without the need to remove the torque wrench from the application
- Settings allow for operation in either English, Spanish, French, German, Italian, Dutch or Portuguese
- Power interruption technology helps to prevent loss of work and continuity if the wrench is impacted
- Patent pending built-in calibration factor feature allows different head lengths to be easily accommodated
- Supplied with a traceable 'Calibration Certificate' conforming with ISO 6789-2:2017, allowing end users to adhere to more stringent quality control processes

4	PROTRONIC
130517	ProTronic 100, 3/8", 5 - 100 N·m
130518	ProTronic 100, 1/2", 5 - 100 N·m
130519	ProTronic 200, 1/2", 10 - 200 N·m
130520	ProTronic 340, 1/2", 17 - 340 N·m

Model	ProTronic 100 3/8"	ProTronic 100 1/2"	ProTronic 200 1/2"	ProTronic 340 1/2"
Part Number	130517	130518	130519	130520
Dimensions (mm)	A	458	462	650
	B	439	439	627
	C	344	344	533
	ØD	38	46	46
	E	34	45	45
	F	21	29	29
Weight (kg)	1.15	1.30	1.65	1.85

ProTronic Standard Range



- Accuracy of $\pm 2\%$ when operating between 20% to 100% of tool capacity
- Angle accuracy of $\pm 1\%$ of reading, $\pm 1^\circ$ @ Angular Velocity $> 10^\circ/\text{Sec}$ $< 180^\circ/\text{Sec}$, $\pm 1^\circ$ for test fixture

