



**WTC MACHINERY** Engineered to perform. Built to last.

WTC Machinery is a global leader in designing and building machinery and tooling for heavy equipment repair facilities.

**EL10000**

**Fast Torque and accurate torque turns.**

The powerful EL10000 All Electric Torque Wrench now takes fast, accurate torquing of track shoe bolts to a whole new level. With advanced remote diagnostics and data logging capabilities downtime and customer warranties are minimized.

A dedicated laptop computer is available with every EL10000, and it's networked so that WTC can perform remote analysis and maintenance on the wrench. This can save the expense and delay of a service visit.

**Advanced Data Storage**

In addition, WTC now offers an optional data logging software package for the EL10000 laptop that's sure to boost shop productivity. It records each bolt torque setting, each after-torque turn setting, and the actual measured values obtained from each bolt tightening sequence for each track.

This information is stored in a database, along with the make, model and serial number of the track in question, the service date and time, and any internal job number. Data for a particular machine can then be retrieved whenever the track chain is in need of service, making future repairs and maintenance quicker and easier.

**Quite, Accurate Operation**

The EL10000 is well known for its lightweight design and air lift, which reduce operator fatigue while providing plenty of down-force for worn bolts. It's entirely electric, making it quite, less than 80 decibels at full running speed of 420 RMPs. The EL10000 is more reliable and more accurate than a hydraulic wrench.



With this wrench there is no need to touch off worn bolts like this.



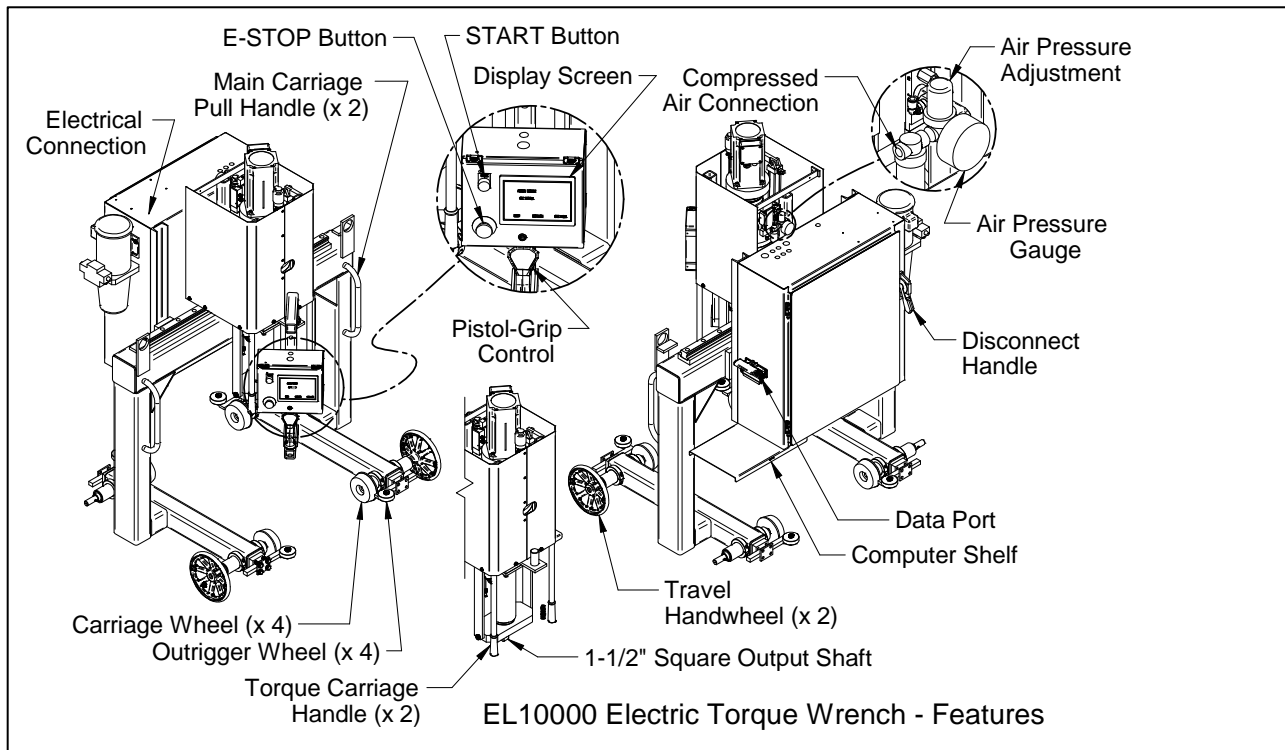
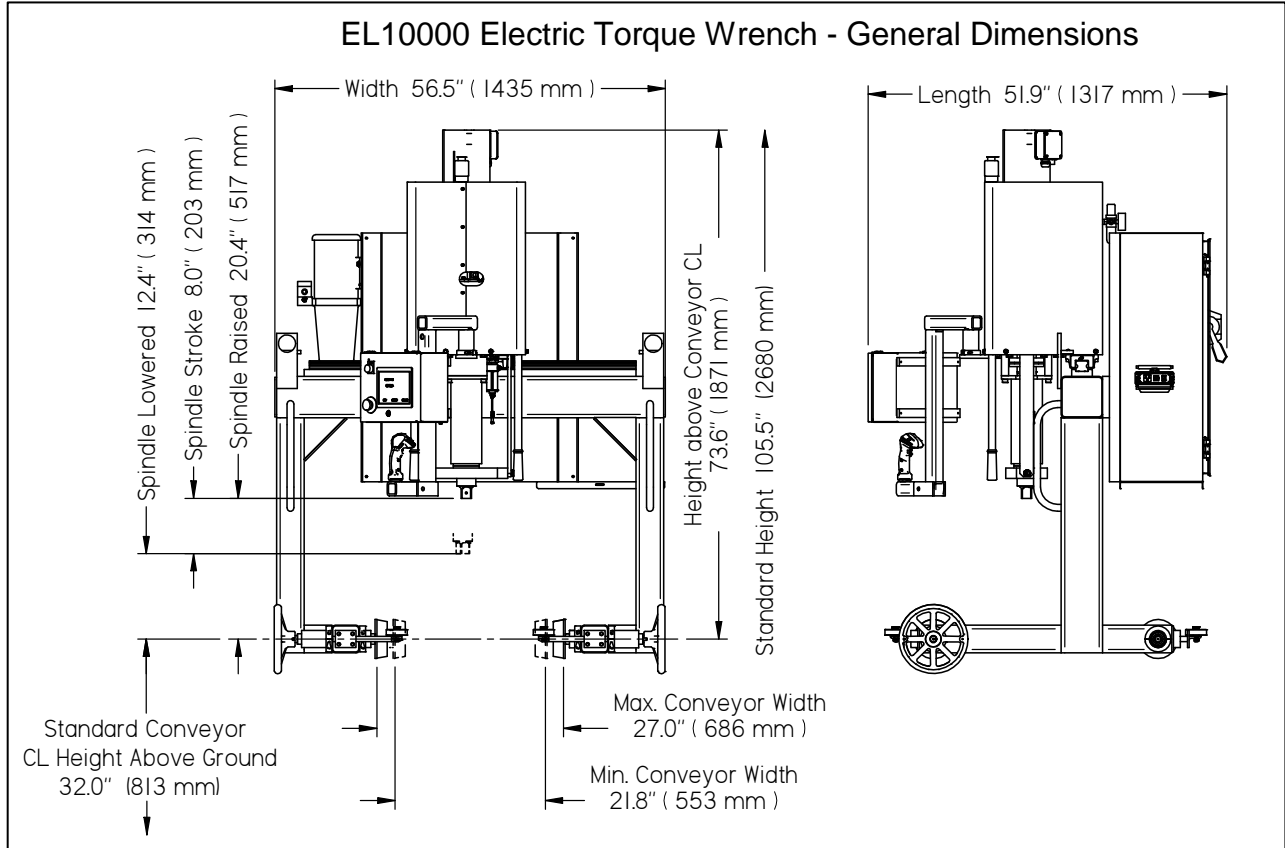
**Specifications:**

Maximum Torque:	8,000 lb-ft (11000 N-m)
High Speed Run-Down:	422 rpm
Hydraulic Down Force:	1,500 lb/f (6,670N)
After Turn Torque Angles:	60, 90, 120, 150, & 180
Torque Turn Range:	225 lb-ft to 7,000 lb-ft

**Electrical**

Electrical Supply:	5 Hp (3.7 kW)
Standard Voltages:	Three Phase
	208V / 55.20A / 60 Hz
	220V / 57.96A / 50 Hz
	230V / 50.00A / 60 Hz
	380V / 52.50A / 50 Hz
	415V / 26.25A / 50 Hz
	460V / 25.00A / 60 Hz
	460V / 25.00A / 60 Hz





**EL10000 Electric Torque Wrench Features**

Controls -

START Button – starts the EL10000 Electric Torque Wrench

ESTOP Button – stops the EL10000

Display Screen – enters settings for the EL10000, and shows the final torque when tightening bolts.

Pistol Grip Control – raises and lowers the Output Shaft, selects tightening or loosening, and shows the status when tightening bolts

1-1/2" Square Output Shaft – the attachment for impact sockets, extensions and adapters. This moves up and down to clear track pad grousers and then bring the socket down to the track pad bolt.

Carriage Wheels – guide the EL10000 on conveyor system outer rails and carry the weight of the Wrench

Outrigger Wheels –center the EL10000 on the conveyor system, and resist the torque of the EL10000

Travel Handwheels – move the EL10000 along the conveyor system

Main Carriage Pull Handles – move the EL10000 along the conveyor system

Torque Carriage Handles – move the Torque Carriage side-to-side

Air Pressure Adjustment and Gauge – set the incoming air supply pressure

Data Port – provides power and Ethernet connection for a laptop computer, used for remote troubleshooting, and for optional Data Collection

Computer Shelf – supports the laptop computer



## WTC Machinery, LLC

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There are two basic configurations of three-phase power, Delta and Wye, and understanding the difference between them is important for the safe operation and maximum lifespan of three-phase equipment, like the WTC Machinery EL10000 Precision Torque Wrench.

In a Wye (Y) connection - also called a “star” connection - each of the three phases are connected to a single point – the “neutral” (see the drawing, below.)

In a Delta connection, the three phases are connected like in a triangle, and don't normally have a neutral point.

The EL10000 requires a 460 Volt, Wye (Y) connected electrical supply. For customers with an existing 460 volt supply, it's important to verify if the supply is Wye (Y) connected - or if it is Delta connected. WTC Machinery can provide a transformer for customers with Delta connected 460 supplies.

For customers with voltages other than 460 Volts, WTC can provide a transformer to convert to 460 Volts, and this transformer also converts the supply to the Wye configuration.

The other important factor of the three-phase electrical supply is “Phase Balance” – this checks that the voltage of the three phases are nearly equal.

To check the phase balance of a Wye connected supply, measure the voltage from each of the phases to the neutral point (L1 to Neutral, L2 to Neutral, and L3 to Neutral), and compare the three voltages. On Delta connected supplies, measure the voltages between pairs of phases (L1 to L2, L2 to L3, and L3 to L1), and compare the three voltages.

In either case, the three voltages should be within 4% of each other – larger differences (“Phase Imbalance”) will shorten the life of three-phase equipment like the EL10000 Precision Torque Wrench.

**Please contact your local electrician for more details.**

