



Torq-Matic™ Automated Floor Wrench

**Setting the standard for
performance and reliability.**



The combination of an articulated arm, PLC control and a remote control function provides the optimum in personnel safety and operational efficiency while simultaneously enhancing the life of the drill pipe.

► SAFETY

- Remote control capability allows the unit to be operated from the driller's console or wirelessly from any rig floor location, removing physical contact with the machine
- Multiple system lockouts ensure instantaneous shutdown capability if an unforeseen event occurs
- Audio visual system alerts crew before the wrench moves to ensure personnel are safely out of direct contact with the wrench
- Type P Marine and Offshore armored cable provides superior resistance to oil, abrasion, moisture, sunlight, drilling fluids, crush and impact damage in all weather conditions
- Tong and arm junction boxes deliver vastly superior watertight integrity and also provide zone 1 (tong) and zone 2 (arm) hazardous area ratings without the need for an air purge system (optional ATEX certification)

► FEATURES & BENEFITS

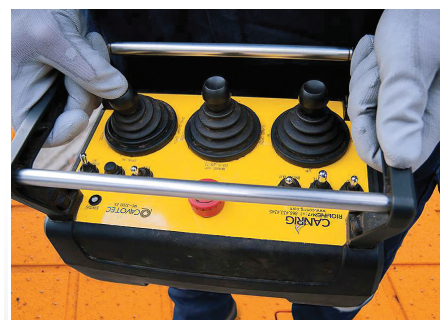
FEATURES	BENEFITS
PIPEPROFILER™	Allows multiple torque values to be preset and selected with one touch of the operator interface. Once the profile has been selected, the wrench will provide consistent and precise makeup for every connection, significantly improving tubular thread life. Each Torq-Matic™ model can handle a wide range of tubular diameters without changing dies. Stores unique connection profiles, enabling “one-touch” makeup to precise torque value.
PROGRAMMABLE ONE-TOUCH POSITIONING	<p>Allows for one-touch positioning of wrench for each of three operational modes:</p> <ul style="list-style-type: none"> • Park position allows for well center operations to continue without wrench interference • Trip position allows for make-up/break-out of drill string at well center removing the need for personnel to manually adjust wrench • Mousehole position allows for stands to be made up off of the critical path
ADVANCED DIAGNOSTICS	PLC Programming creates code-based error faults for enhanced troubleshooting.
HYDRAULIC BY-PASS KIT	Allows the wrench to reach operating temperature without activating the spinner assembly, improving safety while reducing wear.
CENTRALIZED GREASE MANIFOLD	Reduces maintenance time and prolongs equipment life by simplifying the greasing process.

► UTILITIES

HPU POWER SUPPLY	480 VAC, 3 ph, 60 Hz (Standard) 380 VAC, 3 ph, 50 Hz (Optional) 600 VAC, 3 ph, 50 Hz (Optional)
DISCONNECT RATING	100 A
CONTROL CIRCUIT	110 VAC, 1 ph, 50/60 Hz, 15 Amp
HPU ELECTRIC MOTOR	50 HP Standard 75 HP Optional
HPU PUMP CAPACITY	65 GPM
WORKING PRESSURE	5,000 psi

► OPTIONS

- Wireless/Wired Remote Control
- Stand-Alone Single Pump Hydraulic Power Unit
- Stand-Alone Dual Pump Hydraulic Power Unit
- Hydraulic Pump and Control System Only
- Hydraulic Power Unit Cold Weather Kit
- Rail Carriage Mounted Delivery System
- Quick Connect Pocket
- Pocket Extender Plate



TORQ-MATIC™ FLOOR WRENCH

TECHNICAL SPECIFICATIONS

	TM-80-110	TM-80-125	TM-120-125
PIPE OD RANGE	2 3⁄8 in. – 8 1⁄2 in. 60 mm – 216 mm	2 3⁄8 in. – 8 1⁄2 in. 60 mm – 216 mm	2 7⁄8 in. – 11 1⁄2 in. 73 mm – 292 mm
MAKEUP TORQUE (MAX)	60,000 ft-lb 81,350 Nm	60,000 ft-lb 81,350 Nm	90,000 ft-lb 122,000 Nm
BREAKOUT TORQUE (MAX)	80,000 ft-lb 108,465 Nm	80,000 ft-lb 108,465 Nm	120,000 ft-lb 162,700 Nm
SPINNER TORQUE (MAX)	2,500 ft-lb 3,390 Nm	2,500 ft-lb 3,390 Nm	2,500 ft-lb 3,390 Nm
SPINNER ROLLER SPEED (MAX)	75 RPM	75 RPM	100 RPM
HORIZONTAL OPERATIONAL RANGE	95 in. – 110 in. 2,413 mm – 2,794 mm	110 in. – 125 in. 2,794 mm – 3,175 mm	110 in. – 125 in. 2,794 mm – 3,175 mm
TOOL JOINT HEIGHT RANGE	24 1⁄2 in. – 64 1⁄16 in. 622 mm – 1,646 mm	29 3⁄8 in. – 67 in. 746 mm – 1,702 mm	27 3⁄4 in. – 67 1⁄2 in. 643 mm – 1,732 mm
ROTATION	359°	359°	359°
CYCLE TIME AT HOLE CENTER (JOINT DEPENDENT)	15 sec	15 sec	15 sec

► WEIGHT AND DIMENSIONAL DATA

	TM-80-110	TM-80-125	TM-120-125
PHYSICAL DIMENSIONS (RETRACTED LxWxH)	78 x 44 x 104 in. 1,973 x 1,102 x 2,626 mm	79 x 44 x 110 in. 1,988 x 1,103 x 2,794 mm	74 x 69 x 111 in. 1,880 x 1,753 x 2,800 mm
PHYSICAL DIMENSIONS (EXTENDED LxWxH)	135 x 44 x 134 in. 3,727 x 1,118 x 3,390 mm	147 x 44 x 126 in. 3,727 x 1,118 x 3,200 mm	148 x 69 x 113 in. 3,750 x 1,753 x 2,960 mm
SHIPPING DIMENSIONS	81 x 73 x 118 in. 2,053 x 1,842 x 2,997 mm	82 x 73 x 119 in. 2,076 x 1,842 x 3,162 mm	77 x 73 x 125 in. 1,949 x 1,842 x 3,159 mm
WEIGHT (INSTALLED)	7,700 lbs 3,493 kg	7,850 lbs 3,560 kg	9,100 lbs 4,128 kg
WEIGHT (SHIPPING)	8,700 lbs 3,949 kg	8,850 lbs 4,014 kg	10,200 lbs 4,627 kg





SALES INFORMATION

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