



# Torq-Matic™ AUTOMATED FLOOR WRENCH

Setting the standard for performance and reliability in automated pipe handling.





**The Canrig Torq-Matic fully automated floor wrenches** have quickly developed a reputation 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.

**1<sup>ST</sup>** AUTOMATED  
FLOOR  
WRENCH  
IN THE  
INDUSTRY

### Remote Control

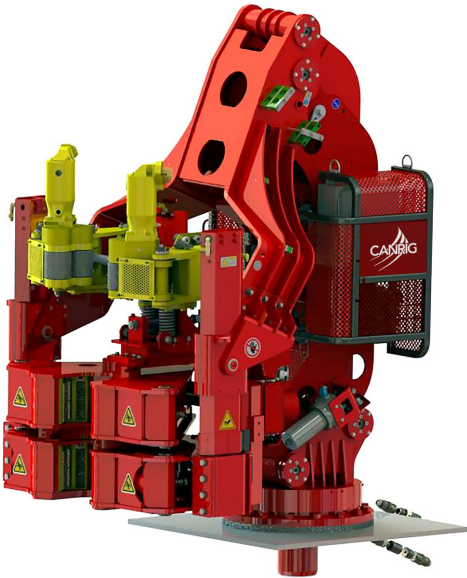
Remote-controlled capability allows the unit to be operated from the driller's console or various rig floor locations

### Shutdown Capability

Multiple system lockouts ensure instantaneous shutdown capability if an unforeseen event occurs

### Unique Tasks

Manual operation enables unique tasks and can be used in situations where automatic operation is not possible



## PIPEPROFILER™

Allows multiple torque values to be present and selected with one touch of the operator interface.

## PROGRAMMABLE ONE-TOUCH POSITIONING

Allows one-touch positioning for wrench for each of three operational modes:

- Park position allows for well center operations to continue without wrench interference
- Trop positioning allows for make-up/break-out of drill string at well center removing the need for personnel to manual adjust
- Mousehole positioning allows for stands to be made up off the critical path

## SAFETY

- Remote control capability
- Multiple system lockouts
- Audio/visual alerts
- Type P and offshore armored cable
- Superior watertight integrity

## OPTIONS

- Wireless/wired remote control
- Stand-alone single or 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

## ADVANCED DIAGNOSTICS

PLC programming creates code-based error faults for enhanced troubleshooting.

## HYDRAULIC BY-PASS KIT

Allows the wrench to reach operating temperatures 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.

# SPECIFICATIONS



		TM-100	TM-120
Pipe OD Range	<i>in</i>	2-3/8 – 8-1/2	2-7/8 – 11-1/2
	<i>mm</i>	60 – 216	73 – 292
Makeup Torque (Maximum)	<i>ft-lb</i>	80,000	90,000
	<i>Nm</i>	108,465	122,000
Breakout Torque (Maximum)	<i>ft-lb</i>	100,000	120,000
	<i>Nm</i>	135,582	162,700
Spinner Torque (Maximum)	<i>ft-lb</i>	2,500	
	<i>Nm</i>	3,390	
Spinner Roller Speed (Maximum)	<i>rpm</i>	111	100
Horizontal Operational Range	<i>in</i>	95 – 110	110 – 125
	<i>mm</i>	2,413 – 2,794	2,794 – 3,175
Tool Joint Height Range	<i>in</i>	24-1/2 – 62-3/4	27-3/4 – 67-1/2
	<i>mm</i>	622 – 1,594	643 – 1,732
Rotation	<i>degrees</i>	359°	

# WEIGHT AND DIMENSIONAL DATA



		TM-100	TM-120
<b>Physical Dimensions Retracted (L×W×H)</b>	<i>in</i>	78 × 44 × 102	74 × 69 × 111
	<i>mm</i>	1,973 × 1,102 × 2,581	1,880 × 1,753 × 2,800
<b>Physical Dimensions Extended (L×W×H)</b>	<i>in</i>	135 × 44 × 131	148 × 69 × 133
	<i>mm</i>	3,416 × 1,102 × 3,318	3,750 × 1,753 × 2,960
<b>Shipping Dimensions</b>	<i>in</i>	81 × 73 × 118	77 × 73 × 125
	<i>mm</i>	2,053 × 1,842 × 2,997	1,949 × 1,842 × 3,159
<b>Weight (Installed)</b>	<i>lbs</i>	7,700	9,100
	<i>kg</i>	3,495	4,128
<b>Weight (Shipping)</b>	<i>lbs</i>	8,700	10,200
	<i>kg</i>	3,946	4,627







## **Sales Information**

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