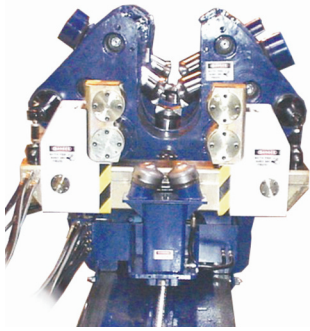
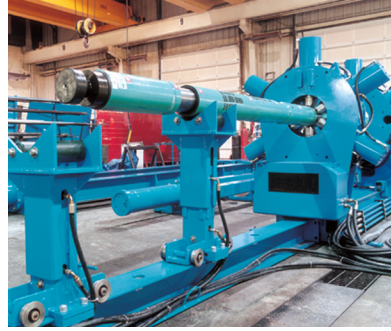


# TorqueMaster™ Breakout Machines

## Technical Summary



Model 8045



Model 1689



Model 8026

National Oilwell Varco is pleased to offer the TorqueMaster™ Breakout Machines which are designed for fast, safe, and dependable maintenance of tools and motors in either workshop or drill site locations. These self-contained hydraulic makeup and breakout machines consist of a 12 - 18 foot bed, complete with a fixed headstock chuck, a moveable tailstock chuck that applies the torque and a hydraulic console unit. For additional information regarding the TorqueMaster Machines or any other National Oilwell Varco product, please contact your local representative.

### FEATURES

- Synchronized Gripping Forces
- A freestanding console contains the hydraulic power unit, operating controls and torque gauges.
- Powered Tailstock Traverse - The operator controls the movement of the tailstock from the console, which allows the work to be completed both faster and more safely.

### BENEFITS

- The unit requires no anchors or special mounting facilities since the torsional reactions are resisted by the base frame.
- The tailstock is designed to carry loads, i.e. a tool balanced in the tailstock can be shuttled along the bed as required.

### OPTIONAL ACCESSORIES

- Bed Length - The standard machine is 12 feet long, with 14 ft, 16 ft and 18 ft lengths available, if required.
- Headstock and Tailstock Extension Beams, complete with Hydraulic Support Jacks
- Log Master II™ Torque Loggers
- Continuous Rotation Adapter
- Hydraulic Push/Pull Cylinder
- Hydraulic Spinner
- Jar Tester

### TorqueMaster Technical Specifications

Chucking Capacity:	Headstock		Tailstock	
	Inches	Millimeters	Inches	Millimeters
<b>Fixed Headstock</b>				
Model 1689 (Standard)	3½ - 14	90 - 355	3½ - 14	90 - 355
Model 8025 (Large Bore)	3½ - 18	90 - 457	3½ - 14	90 - 355
Model 8045 (Top Loading)	3¾ - 11¼	95 - 286	3¾ - 11¼	95 - 286
<b>Fully Opening Hinged Headstock</b>				
Model 8026	3½ - 18	90 - 457	3½ - 14	90 - 355
<b>Torque Capacity, Models 1689, 8025 and 8026</b>				
Makeup	5000 - 150,000 lb-ft (5400 - 203,000 Nm)			
Breakout	190 000 lb-ft maximum (257 000 Nm)			
Overall Length	150" (3800 mm) with a 12 foot bed			
Overall Width	52" (1320 mm)			
Overall Height - Model 1689	71" (1805 mm)			
Overall Height - Model 8026	75" (1905 mm)			
Weight	10,500 lbs (4772 kg) approximate with console			
<b>Electrical Requirements</b>				
20 hp (15 kW)				
Customer to specify voltage and frequency. The unit requires 3-phase power.				

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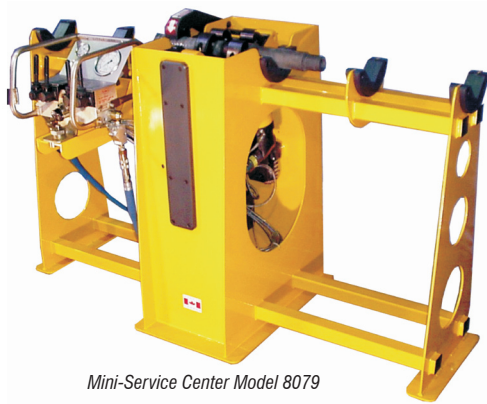
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**NATIONAL OILWELL VARCO**

# TorqueMaster™ Breakout Machines

## Service Equipment Accessories



Mini-Service Center Model 8079



Mini-Tong (Little Jerk)



Log Master II Torque Logger

### Mini-Service Center

The Mini-Service Centre combines both value and performance for the safe make and break of connections. Designed with a reliable rugged build, the Mini-Service Centre is easy to operate and provides accurate torque control.

#### Mini-Service Center Model No. 8079 Technical Specifications

Capacity	1 1/16" - 3 1/2" O.D. - (43 - 89 mm)
Maximum Torque	5 000 lb-ft - (6 770 Nm)
Operating Pressure	2 900 psi - (20 000 kPa)
Required Flow	3.9 GPM - (14.5 L/min)
Distance between Jaws	3" - (76 mm)
Unit Weight	Approximately 750 lbs - (339 kg)
Unit Dimensions	39" Height x 272" Width x 68" Length (99 cm x 70 cm x 173 cm)

### Mini-Tong (Little Jerk)

The Little Jerk Mini-Tong was designed with rig floor and service shop safety in mind. This compact unit efficiently makes and breaks connections on small tools and pipes. The Mini-Tong is easily handled and controlled, and can be operated from a variety of configurations and power sources.

#### Mini-Tong (Little Jerk) Model No. 8071 Technical Specifications

Capacity	1 1/16" - 3 1/2" O.D. - (43 - 89 mm)
Maximum Torque	5 000 lb-ft - (6 770 Nm)
Operating Pressure	2 900 psi - (20 000 kPa)
Required Flow	3.9 GPM - (14.5 L/min)
Distance between Jaws	3" - (76 mm)
Unit Weight	Approximately 210 lbs - (96 kg)
Unit Dimensions	23" Height x 20" Width x 22 1/2" Length (58 cm x 51 cm x 57 cm)

### Log Master Torque Logger

National Oilwell Varco is pleased to present the Log Master II™ Torque Logger units. These automated data logging devices are designed to operate in the harsh environment of a workshop. Log Master units may be safely and efficiently operated by one person from the hydraulic console on the TorqueMaster™ Machine. All functions of the Log Master II™ are easily accessed through the use of an industrial grade touch screen.

The Log Master II™ features which enhance operator usability are listed in the features and benefits below.

#### FEATURES AND BENEFITS

##### Mini-Service Centre (8079)

- Reliable, rugged design
- Accurate torque
- Can be operated by one person
- Easy changing of worn dies

##### Mini-Tong (8071)

- Compact service unit
- Safe and easy makeup and breakout for small tool and pipe connections
- Flexible operating set-up
- Practical design

##### Log Master II (8090) Torque Logger

- Customizable user interface (GUI) match different workflows in the shop
- Automatic PDF reporting tools
- Database storage, both local and remote
- Wireless internet connectivity,
- Common tools template creation
- Administration features to organise tasks
- Remote access through laptop or tablet PCs.

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