

MT | Mechanical Thruster

The Mechanical Thruster provides a consistent force to bit by balancing hydraulic (pressure below tool) and mechanical (WOB) forces. This balance provides smooth energy transfer to the bit—even in erratic situations. Unplanned trips are expensive and burden your AFE. The Mechanical Thruster is proven to reduce excess trips and associated costs. Designed to increase reliability in your BHA components, the Mechanical Thruster provides consistent drilling parameters; from ROP to WOB and differential pressure.

MAX TEMPERATURE
 Standard Seals: 250°F / 121°C
 High Temp Seals: 405°F / 207°C
 Geo Seals: 405°F + / 207°C +

SPECIFICATIONS

Imperial

| Tool Model | Tool Size | OD (in) | ID (in) | Length (ft) | Weight (lb) | Pump Open Area (in ²) | UP | DOWN | Maximum Torque (ft-lb) |
|------------|-----------|---------|---------|-------------|-------------|-----------------------------------|------------------------|------------------------|------------------------|
| | | | | | | | Max Stroke Length (in) | Max Stroke Length (in) | |
| MT3 | 500 | 5.00 | 2.25 | 24.0 | 1,000 | 11.0 | N/A | 24.0 | 21,000 |
| | 650 | 6.55 | 2.50 | 22.5 | 1,550 | 18.7 | N/A | 24.0 | 32,000 |
| | 800 | 8.00 | 3.00 | 24.0 | 2,700 | 30.7 | N/A | 24.0 | 60,000 |
| MT6 | 650 | 6.55 | 2.50 | 19.8 | 1,600 | 16.8 | 8.0 | 8.0 | 45,000 |
| | 675 | 6.75 | 2.50 | 21.0 | 1,600 | 16.8 | 8.0 | 8.0 | 45,000 |
| | 800 | 8.00 | 3.00 | 22.5 | 3,000 | 30.7 | 12.0 | 12.0 | 60,000 |

Metric

| Tool Model | Tool Size | OD (mm) | ID (mm) | Length (m) | Weight (kg) | Pump Open Area (cm ²) | UP | DOWN | Maximum Torque (N-m) |
|------------|-----------|---------|---------|------------|-------------|-----------------------------------|------------------------|------------------------|----------------------|
| | | | | | | | Max Stroke Length (cm) | Max Stroke Length (cm) | |
| MT3 | 500 | 127 | 57 | 6.4 | 544 | 71.0 | N/A | 61.0 | 28,400 |
| | 650 | 166 | 64 | 6.9 | 703 | 120.7 | N/A | 61.0 | 43,300 |
| | 800 | 203 | 76 | 7.3 | 1,224 | 198.1 | N/A | 61.0 | 81,300 |
| MT6 | 650 | 166 | 64 | 6.0 | 726 | 108.4 | 20.3 | 20.3 | 61,000 |
| | 675 | 171 | 64 | 6.4 | 726 | 108.4 | 20.3 | 20.3 | 61,000 |
| | 800 | 203 | 76 | 6.9 | 1,361 | 198.1 | 30.5 | 30.5 | 81,300 |

FEATURES AND BENEFITS

- Consistent bit engagement to prevent stick slip
- Decreases shock and vibration
- Reduces damages to bits and other BHA components
- Reduces weight and torque swings while drilling

