

# 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

Imperial							UP	DOWN	
Tool Model	Tool Size	OD (in)	ID (in)	Length (ft)	Weight (lb)	Pump Open Area (in²)	Max Stroke Length (in)	Maximum Torque (ft-lb)	
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

Metric							UP	DOWN	
Tool Model	Tool Size	OD (mm)	ID (mm)	Length (m)	Weight (kg)	Pump Open Area (cm²)	Max Stroke Length (cm)		Maximum Torque (N-m)
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



**COUGAR**  
 DRILLING SOLUTIONS

a TAQA company

RELIABLE. CAPABLE. CONSISTENT.