



Downhole Catalog 2022

Worldwide Sales and Rentals





Drilling Jars

DJ6 - Hydraulic Mechanical

- Cougar proprietary internal latch
 - Eliminates the need for external jar clamp on surface
 - Prevents jar from misfiring downhole
- Hydraulic jar upward
- Mechanical jar downward

DJ12 - Double Acting Hydraulic

- External Cougar safety clamp
- Ability to fire up and down hydraulically
- Open metering jar
- Available sizes: 4 1/8" to 10.00" OD

DJ10 - Double Acting Hydra-Mechanical

- Cougar proprietary internal latch
 - Eliminates need for external jar clamp on surface
 - Prevents jar from misfiring downhole
- Ability to fire up and down hydraulically
- Lock loads can be tailored to fit specific applications
- Available sizes: 4 1/8" to 10.00"

	DJ6	DJ10	DJ12
Jarring Up ↑	Hydraulic	Hydraulic	Hydraulic
Jarring Down ↓	Mechanical	Hydraulic	Hydraulic
Internal Latch	Yes	Yes	No

Jar Booster

- Maximizes impact from your drilling jars
- Ensure jarring performance where minimal pipe stretch is available
- Creates effective jar impact in high deviated wellbores

**Increase
Force**



**Accelerate
Impact**

Mechanical Thruster

Shock, vibration and related equipment damage cause unnecessary trips and increase costs. The Mechanical Thruster reduces shock and vibration induced damages to BHA components, lowering your AFE.

In vertical and lateral sections, the mechanical thruster will:

- Keep consistent bit engagement
- Reduce shock and vibration
- Reduce damage to bits and BHA components
- Keep consistent parameters through tough transitions
- Reduce MWD failures
- Available in 5.00", 6.75" and 8.00" OD

**Consistent
Parameters**



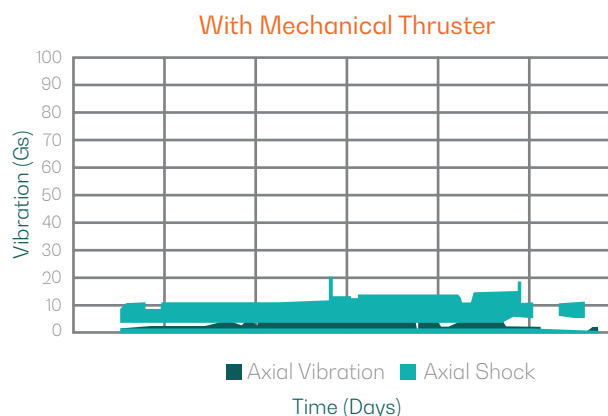
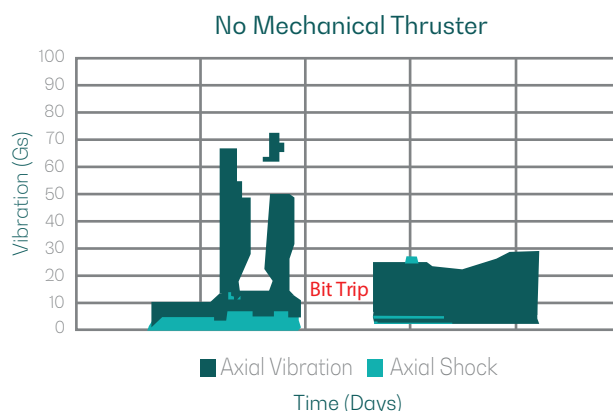
**Increased
Reliability**



**Reduced Days
on Well**



Axial Shock & Vibration Comparison - 12.25" Intermediate Section



Shock Tool

ST5 - Standard

- Dual acting spring stack to compensate for high differential and high WOB applications
- Provides ample reductions in axial shock and vibrations
 - Protect the bit
 - Protect the BHA
- Optimal seal and wear material for maximum service life
- Available sizes: 4.75" to 14.00"

ST5 - PDC

- Same dual acting spring stack as the standard ST5
- Designed with a softer configuration to provide maximum benefits at lower WOB in PDC bit applications
- Available sizes: 4.75" to 14.00"



Drilling Motors

- Heavily built, highly robust lower end for increased reliability
- Designed for maximum flow capability, with large fluid bypass components
- Proprietary adjustable housing available
- Most power section speeds and types available upon request
- Large OD transmission design

MM4

Oil Sealed Bearing Drilling Motor

Utilizes a special rotary shaft seal designed specifically for drilling motor use that isolates the drilling fluid from the oil lubricated bearing at all times. The bearing assembly is designed to ensure reliable load transfers from the BHA to the bit.



MM5

Mud Lubricated Drilling Motor

Utilizes custom radial and thrust bearings to assist operators drill longer in the harshest conditions. The bearings are cooled and lubricated by the drilling fluid and they are designed to ensure reliable load transfers from the BHA to the bit.

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