

# Multispeed Traveling Block

Changes speed and load on the traveling assembly with a push of a button

## Applications

Offshore drilling

## How it improves wells

The multispeed traveling block increases tripping speed as well as reduces the rig's carbon footprint because of lower power consumption while tripping. It operates in full-load mode (normal speed) as any standard 750-tonUS traveling block with seven sheaves. In high-speed mode (reduced load), travel speed is increased up to 67%. Hoisting capacity in high-speed mode is reduced without hindering most drilling operations.

## How it works

The traditional method for reeving drilling lines takes up to 12 hours. The multispeed traveling block changes speed and load on the traveling assembly with the push of a button and within minutes. The multispeed block gears the drilling line in a drawworks-based hoisting system comprising two clusters—an inner and outer cluster. Push-button activation simultaneously changes both the load capacity and hoisting speed.

### Changing gear from normal to fast mode

1. The traveling block is lifted all the way up below the water table where the inner cluster is locked to the water table with the locking cylinder.
2. The inner cluster is unlocked from the main block with a cylinder and separated from the main traveling block.
3. The outer cluster of the traveling block can begin operating in fast mode.
4. The traveling block operation can be reversed to normal mode by reversing the operation.

### Additional information

- Supports Cameron 750-tonUS top drives and can also interface with the hydraulic and control system of any top drive
- Compatible with any existing derrick
- Reduces rig CO<sub>2</sub> emissions up to 10%



*The multispeed traveling block comprises two primary sections—the inner and outer cluster. The inner cluster is locked for fast mode and then reengaged to slide into the outer cluster for added lift capacity.*