

# MULTIBACK

## SPECIALIZED TOOLS

### FEATURES

- Modular design for multiple tool functions
- High strength, rare earth magnets rated to 350° F (177° C)
- Non-rotating, 360° coverage, self-centralizing metal-bladed scraper lantern
- Single-piece mandrel with no internal connections
- Non-rotating, self-centralizing flexible brush lantern
- Long life brush bristles
- Brush pads can easily be replaced on location
- No risk of casing wear or damage from rotating stabilizers
- Currently available in 7 in. and 9 5/8 in. sizes with all common casing/liner sizes to follow

### ADVANTAGES

- One tool carries scrapers, brushes, or magnets on the same mandrel
- Scouring action of brush and scraping action of scraper removes cement sheath, burrs, and pipe scale to ensure a clean pipe wall
- Self-centralizing lanterns distribute cleaning force equally for all hole inclinations
- No risk of casing wear or damage from rotating stabilizers or lanterns
- Large capacity for up to 67 lb (41 kg) of ferrous material retrieval
- Recovered debris from magnets removed easily on location
- Large flow area between magnets to capture large debris

## The MULTIBACK tool is the next generation combination tool for wellbore displacements.

It merges the latest proven magnet, scraper, and brush technologies into a simplified, rugged tool that can be used on wellbore preparation trips. The component arrangement flexibility provides numerous options to customize the tool for a specific application.

### Applications

The modular design of the MULTIBACK tool allows it to be configured for specific applications or requirements. When designing the displacement system that will prepare the wellbore for the next completion phase, it is critical to complement the chemical and hydraulic cleaning with a thorough mechanical cleaning system. The MULTIBACK tool has a versatile design with an integral magnet section to capture ferrous debris, scrapers to dislodge difficult-to-remove debris, and brushes to disturb the sheath and any other fluid build-up on the inner wall of the casing or liner. The tool can be run in the inner production riser, casing, and liner to remove a combination of scale, rust, mud film, drilling debris, ferrous debris, and pipe dope. It can be run with any combination of magnet, scraper, or brush. Additional tools also can be added to the workstring to either facilitate more cleaning in a single run or to add duplicate tools for better coverage on a short trip.

### Operations

The MULTIBACK tool is run in the well as a conventional tool on the workstring. It can be run in hole or pulled out at a maximum speed of 150 ft/min (46 m/min) and rotated up to 120 rpm. The tool has no limitations on circulation rates. The lanterns for the scraper and brush unit are flexible, non-rotating, and provide the force to contact and clean 360° of the casing's internal diameter. It is self-centralizing inside the casing to ensure equal cleaning force at all angles of inclination. During rotation, the mandrel will rotate inside the lantern and stabilizer portions of the tool to avoid wear and damage to the casing. The scraper portion of the tool should be positioned at least 30 ft (9 m) above the drill bit/mill and placed so it does not pass through any drilled-out accessories such as landing or float collars. The string should be regularly picked up off bottom and circulated to clear any accumulated debris. The tool is HTHP-compatible and not vulnerable to chemical or acid attack.





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