



AlphaV™

SINGLE-TRIP, CASING-EXIT SYSTEM

Eliminate Wellbore Preparation Runs and Increase Trip Speed during Cased-Hole, Re-Entry Operations

The Weatherford AlphaV single-trip, casing-exit system delivers reliable sidetracking in onshore and offshore wells requiring a full-bore exit, within single or multiple strings. AlphaV reduces rigtime by eliminating the wellbore preparation run via its integrated gauge mill and scraper assembly. For the first time in the industry, a whipstock system is now available that does not utilize a shear bolt to release the milling assembly from the whipstock, once set. New from the energy-innovation pioneers, this patented hydraulic mill-release system eliminates the risk of premature shearing while running in hole and doubling tripping speed.



DOUBLE TRIPPING SPEEDS



ELIMINATE WELLBORE PREP RUN



ELIMINATE SHEAR BOLT WITH PATENTED HYDRAULIC MILL RELEASE

FIELD-PROVEN RESULTS

KUWAIT OIL COMPANY

SAVED 30 HOURS
ELIMINATED WELLBORE
PREPARATION RUN

OFFSHORE INDONESIA

INCREASED TRIP SPEED
150 PERCENT

NORTH SEA

ENABLED SINGLE-TRIP EXIT
IN DEVIATED WELLBORE

Reduce OPEX and Save Rigtime

Add unprecedented accuracy, speed, and value with exclusive technologies that simplify rigfloor operations and tasks.

Eliminate the Wellbore Prep Run and Double Trip Speeds

Take advantage of specialized tool designs that combine operations, increase accuracy, and accelerate results.

Integrated Gauge Mill and Scraper Assembly

Remove the need for a separate wellbore preparation run for valuable rigtime savings.

Hydraulic Mill Release (HMR)

Eliminate accidental shear-off and gain high-torque/load-bearing capabilities while increasing tripping speeds.

Millable Collar w/Retractable Pin

Control greater speeds tripping in and out of hole with a robust connection between the milling BHA and whipstock assembly.

High Torque and Load Capacity

Trust 100K bls compressive loading, 80K lbs compressive tensile loading, and 20K ft-lbs torque for extreme reliability.

Simplify and De-Risk Operations

Improve performance and safety with proven procedures that remove hazards associated with conventional whipstocks while ensuring repeatable results.

Enhance Performance, Safety, and Carbon Footprint

Engage faster tripping speeds for 50% less time in the redzone—reducing exposure and CO₂ production.

Aggressive Lead-Mill Geometry

Improve penetration rates and gauge-retention to minimized trips related to mill-gauge loss.

Patented HMR Tripping Assurance

Enhance safety with tripping operations when abrupt workstring movements cause premature shear release of the whipstock assembly.

Integrated 360°, Scraper-Pad Assembly

Mounted below the whipstock anchor, this system ensures the packer sets in a clean environment for reliable whipstock performance.

Rough Heave Endurance

Enable reliable, consistent offshore capabilities even during extreme weather conditions.

Mechanical Mill Release

Machined into the concave, this ensures predictable repeatable, secondary-release values and load rating of 100K lbs.

Optimize Field-Proven Innovation

Create ideal window geometry compatible with any drilling/liner program, regardless of casing size, grade, depth, or inclination.

Quickly Mill and Clean Full-Bore Windows and Ratholes

Hydraulically set a sealing/packing anchor for improved milling, gauge retention, and formation drilling in a single trip.

2° Single-Angle Concave

Reduce dogleg severity from the parent bore into the lateral to accommodate robust, drilling BHAs or complex completion hardware.

Unique Lug Technology

Protect the whipstock during cut-out to accurately direct the mill into casing wall.

AccuView® Software

Plan and execute re-entry operations with real-time, 24/7, SME support and supervision.

Seamless Cased-Hole-to-Openhole Transition

Gain interference-free, liner-and-tieback installations.

