

MSC MECHANICAL STAGE COLLAR

APPLICATION

Mechanical Stage Collar is designed to ensure cement integrity in wells that require selective zonal isolation. The tool can be either run for collar or stage cementing with the corresponding open-hole packer. When the ball is dropped and then lands on the landing collar, increased internal casing pressure hydraulically sets External Packer. Mechanical Cementing tool is then run to open the stage collar, enabling circulation and then cement to pass through the ports into the annulus above the packer. The plug when released, pushes the slurry and wipes the running string ID clean of cement before bumping on a landing seat inside Mechanical Cementing Tool. Mechanical Cementing Tool should be put in tension to close the MSC circulation ports.

- Collar cemented casing / liner applications.
- Vertical, directional and horizontal wells.

FEATURES AND BENEFITS

- Mechanical activation of the MSC stage collar.
- To operate the MSC stage collar a special Mechanical Cementing tool is needed.
- Activation by Mechanical Cementing tool eliminates the need for stage collar drill out. Mechanical Cementing tool and wiper plugs are POOH after cementing is finished.
- Activation load can be adjusted before RIH by installing the required number of shear screws.
- External Packer can be also operated by Mechanical Cementing tool if required.

SUPPLY PACKAGE

- Mechanical Stage Collar.

TECHNICAL DATASHEET

TECHNICAL CHARACTERISTICS	VALUE
Liner size, in	7.000
Max OD, in	8.189
ID after milling, in	6.260
Length, ft	3.9
Tensile, kip	281
Burst, psi	7,977
Collapse, psi	5,000
Material*	P-110
Max working temperature, °F	248

* Other options are available as per Customer request.



MSC