

Debris Catcher

Removes large and small wellbore debris with reverse circulation

APPLICATIONS

- Vacuum setup for removing small wellbore debris prior to completions
- Debris removal caused by milling bridge plugs, packers, or both
- Large fish recovery setup for bit cones and other large debris

BENEFITS

- All debris contained within tool
- Milled cuttings never reach surface
- Eliminates need for expensive milling fluid
- Removal of wellbore debris when poor lifting capacity of fluid exists, high equivalent circulating density not possible with open perforations, or insufficient pump capacity to provide adequate annular velocities for hole cleaning

FEATURES

- Interchangeable jets for hydraulic optimization downhole
- Removable trash cap to empty debris at surface
- High-volume suction flow
- Large debris capacity

The Schlumberger Debris Catcher is a modular system, which uses reverse circulation to remove debris from the wellbore. Pumping through the tool provides energy to lift debris/fish from the bottom of the hole, object, or obstruction point. The lower end of the tool can be configured in one of three ways depending on the application, while the same jet section is used for all three applications:

- One application is a vacuum setup for removing small debris from a wellbore. The lower end of the tool uses a chamber for debris storage. When the job is completed, the tool's trash cap can be removed and the debris chamber emptied without disassembling the tool.
- A second application is for fishing large debris from the wellbore. The tool's debris chamber, on its lower end, is replaced with a rotary shoe which has an internal finger basket to capture fish.
- An additional application is for packer, plug, and milling operations. A washover shoe is attached to the bottom end of the tool and milling debris is collected inside the tool. When the job is completed, the trash cap can be removed to empty debris from the tool.

Debris Catcher Specifications

Tool size outer diameter, in	5½	7¼
Top connection	3½ IF Box	4½ IF Box
Bottom connection	3½ IF Pin	4½ IF Pin
Maximum torque, ft.lbf	8,900	22,700
Maximum tensile, lbm	204,000	340,000
Tool Length		
Vacuum setup, in	368	310
Vacuum setup—one extension, in	676	531
Vacuum setup—two extensions, in	984	841
Milling setup, in	368	310
Fishing setup, in	64	83
Tool Capacities		
Vacuum, in³ [galUS]	2,995 [13]	5,100 [22]
Vacuum—one extension, in³ [galUS]	6,570 [28.4]	12,390 [53.6]
Vacuum—two extensions, in³ [galUS]	11,560 [50]	19,420 [84]

