

# PrecisionDebris Mill

## Precision Mechanical Applications

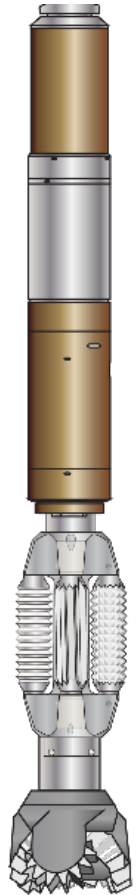
### Applications

- Removal of a wide range of wellbore debris e.g. scale, asphaltenes, cement stringers, rust
- Milling out glass plugs

### Features and Benefits

- E-Line conveyed, powered device
- Combinable with PowerTrac® for conveyance
- Real-time monitoring of key milling parameters
- Can be run with a Hole Opener to achieve precise and smooth milling
- Optional Shock Absorber and mechanical Straight Pull Release Tool
- Optimized milling speed, reduced risk of stalling
- Precise, cost effective and low risk wellbore cleanout service
- Light on logistics, footprint, personnel and time

The PrecisionDebris Mill is used to remove debris preventing access to completion targets, causing internal diameter changes, or choking production/injection. It is run in combination with PowerTrac® for anchoring, coupled with a Direct Drive Rotation (DDR) device to generate the required rotational force. This service is designed without debris collection, with the debris either falling to the bottom of the well for collection in the rathole, or circulated out for surface collection.



Service Name	PrecisionDebris Mill 225	PrecisionDebris Mill 315
Tool body OD <sup>1</sup>	2.500 in. (63.5 mm)	3.125 in. (79.4 mm)
Typical bit types used	Rock Bit	Rock Bit
Recommended minimum Bit size OD <sup>2,3</sup>	≥ 2.625 in.	≥ 3.250 in.
Standard configuration total length <sup>4,5</sup>	8 ft (2.44 m)	8.7 ft (2.65 m)
Pressure rating	20,000 psi (1,379 bar)	20,000 psi (1,379 bar)
Temperature rating	177°C (350°F)	177°C (350°F)
Deviations	All -0° (vertical) to horizontal	All -0° (vertical) to horizontal
Design torque	≤ 110 Nm	≤ 110 Nm
Design RPM	≤ 180 rpm	≤ 180 rpm

<sup>1</sup> Tool OD only (not brush OD)

<sup>2</sup> Based on API Standard designation

<sup>3</sup> Bit OD greater than tool OD. Recommended bit OD with 0.0625" radial clearance between total and bit

<sup>4</sup> Standard configuration for 2.5" and 3.125" OD direct drive rotational adapters respectively

<sup>5</sup> Length of Direct Drive Rotation. Does not include length of Rockbit, PowerTrac and accessories