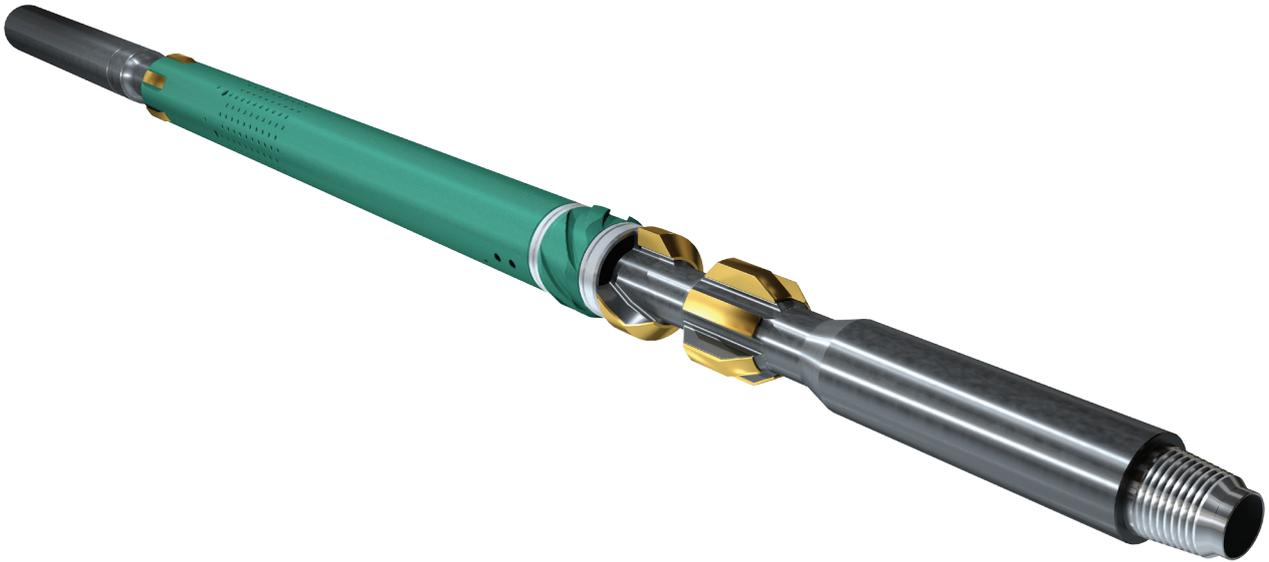


OWS Wellbore clean-up technology

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# PiRanha™ Junk XTractR™



The **PiRanha™ Junk XTractR™** is a robust well-bore clean-up tool and can be run individually or modularly as part of the ArmRdillo™ Wellbore Clean-Up System. The PiRanha™ Junk XTractR™ is designed to mill up and remove junk from the wellbore which could damage downhole equipment.

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## FEATURES

- Robust Single Piece Mandrel
- Fluted free-rotating Centralizer Rings provide centralization and prevents casing wear
- Fixed bladed mill and junk scoop with tungsten carbide inserts and large single entry inlet port
- Large capacity junk basket
- Secondary boot basket capture debris in the annulus above the tool
- Tool design to prevent drill pipe, tool or casing wear
- Can be quickly assembled redressed on location with simple hand tools
- No external bolts, clamps or fasteners that can come loose down hole



**ODFJELL WELL SERVICES**  
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## BENEFITS

### Cost savings

- Field serviceable at the rig-site with basic hand tools
- Removes harmful junk preventing premature failures

### Integrity

- Available with high torque connections reducing the need for reduced strength crossovers
- Single piece mandrel with no internal connections for increased strength

### Reducing Non-Productive Time

- A robust wellbore clean-up is proven to reduce non-productive time during the completion of the well
- Reduces failure of completion equipment by debris which can interfere with valves, electronics and other hardware

## APPLICATIONS

- Pre-completion wellbore clean-up operations where high levels of junk is expected
- Milling or heavy workover operations to remove junk and debris
- Cement drillout and accessory milling

## OPERATIONAL

- The PiRanha™ Junk XTRACT™ can be run as part of junk milling assembly or part of the pre-completion wellbore cleanup where high levels of junk is expected
- The PiRanha™ Junk XTRACT™ can be placed above a MunchRdillo™ Scraper Milling Tool and MAGStar4™ HD Casing magnet
- Whilst running in hole fluid enters the large single entry port or bypasses around the outside of the tool
- The fixed blade carbide mill breaks up any junk and the junk scoop introduces the junk into the junk barrel when rotating the workstring
- Junk circulated past the outside of the tool can be caught in the boot basket located at the top end of the junk barrel
- The drill string can be rotated and reciprocated without fear of damage or wear of the casing, drill pipe or of the PiRanha™ Junk XTRACT™
- When pulling out of hole, the junk barrel boot basket captures additional debris from the wellbore
- The PiRanha™ Junk XTRACT™ can be quickly emptied at surface to inspect contents and can be redeployed quickly if necessary

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