

# Debris Management Drilling Tools

Recover debris that cannot be circulated out of the well.

This line of specialized tools is designed to recover debris that cannot be circulated out of the well, either mechanically or magnetically. Usually, these tools are run as part of the main wellbore cleaning string. They can also be used in upper well cleaning or as catching devices during packer or whipstock retrieval.

MAGNOSHIELD magnet

## MAGNOSHIELD

Drillstring magnet

The **MAGNOSHIELD** drillstring magnet is a through-bore ferrous debris and fines collection and retention tool. A standalone device, the MAGNOSHIELD magnet protects the wellbore and drilling BHA from damage-causing and performance-limiting debris and fines travelling through the drillstring.



MUDGARD filter

## MUDGARD

Workstring filter

The **MUDGARD** workstring filter can be used in all drilling applications to prevent debris-related hazards and reduce the likelihood of NPT. MUDGARD filter is cost-effective protection for BHAs that have impeller or modulated flow control. The MUDGARD filter is a proactive measure in the protection of drilling assemblies from rock, scale, sulfates, carbonates, silicates, and any other insoluble material that may cause damage.



PowerDrive RSS

## MAGNOGARD

Openhole magnet

Designed for use in openhole drilling applications, **MAGNOGARD** openhole magnet collects metallic debris and junk out of the flow path to maximize fluid bypass. Including the MAGNOGARD magnet in the drillstring increases the life of BHA components and drill bits by reducing exposure to metallic debris and junk present in the wellbore.



MAGNOGARD magnet

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