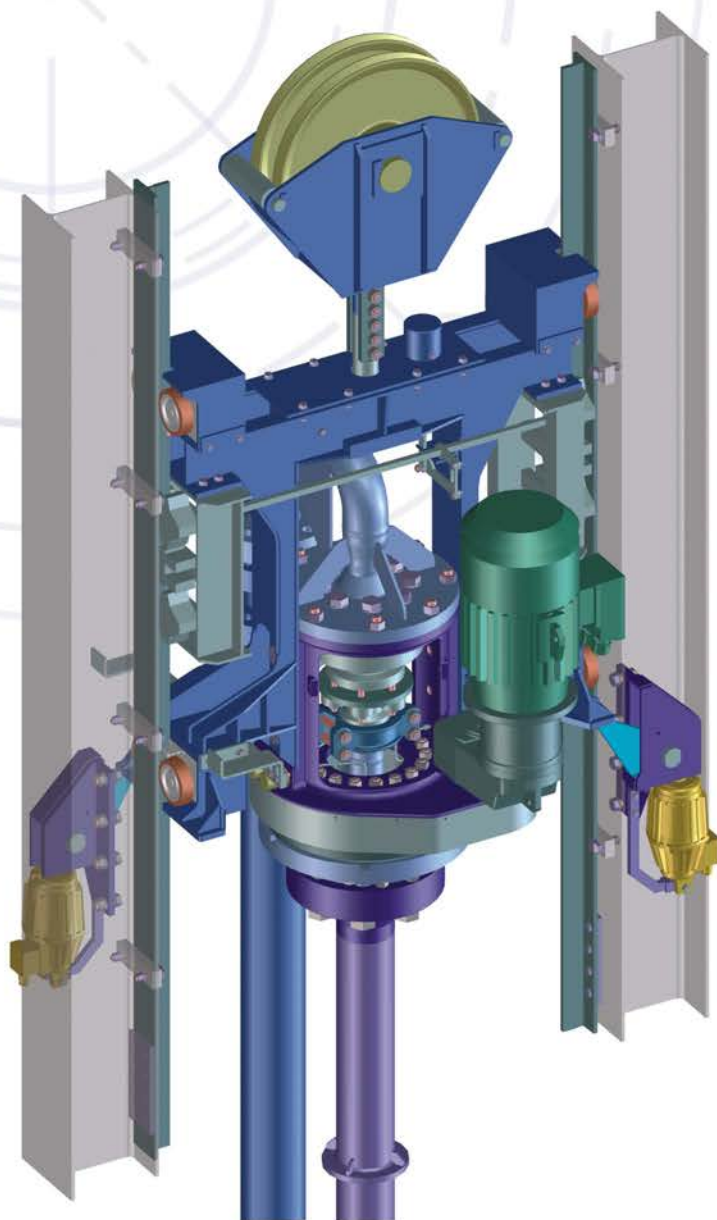




Drill Stem Drive

Hydraulic Decoking System



Drill Stem Drive

Hydraulic Decoking System



Drill Stem Drive, equipped with Hydraulic Motor



Drill Stem Drive, equipped with Electric Motor



Cartridge Design allows easily and quick exchange of Packing Cartridge

The patented Ruhrpumpen® Drill Stem Drives provide new and safer designs and operational features that should eliminate much of the routine maintenance for swivels (rotary joints) required in existing installations and in the designs of other suppliers.

The Ruhrpumpen Drill Stem Drive (DSD)

- Can normally be installed without interruption to decoking operations.
- Fits within the existing swivel envelope (± 3 ").
- Can be adapted to existing Crossheads without modification to control limit switches or mechanical stops.
- Can easily revise existing connection to the drill stem from a unbolt coupling to a FlangeLok® or equivalent flanged connection (could increase time required).

New Design Features

- Reduced Maintenance.
 - Oil reservoir eliminated.
 - Potential contamination points eliminated.
 - Grease lubrication of all main points, via automatic greasers.
- Improved ease and life of maintenance
 - One long-life bearing, instead of the traditional, increased wear, three-bearing design in installed, non-Ruhrpumpen units.
 - Reduction of number of sub-assemblies (Casing and high pressure piping;
 - Bearing/gear cartridge; Drive unit with auxiliary gear).
 - Seal cartridges designed for quick replacement.
 - Cartridge design features maximized.
 - Reduces the number of parts.
 - Permits quick repair on the cutting deck.
 - Greatly reduces the potential requirement for crane rental.

NOTE: Ruhrpumpen Group Service and Repair Centers can supervise or perform cartridge change out on the cutting deck.

- Drive Flexibility
 - Electric, Hydraulic and Pneumatic Drives are available.

Design Conditions

Torque, max: 7,500 Nm / 5,500 lbft
Bearing Load, max: 65,000 kg/143,000 lbs
@15 rpm
Operating Pressure, max: 420 bar / 6090 psi

Additional Services

The Ruhrpumpen Group Service and Repair Centers offer full decoking equipment and system services:

- Free-Fall Arrestor Revamps and Retrofits
- Parts and repairs for all existing customer decoking systems and components, including:
 - Combination Cutting Tools.
 - Rotary Joints.
 - Decoking and Isolation Valves.
 - Jet Pumps.



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