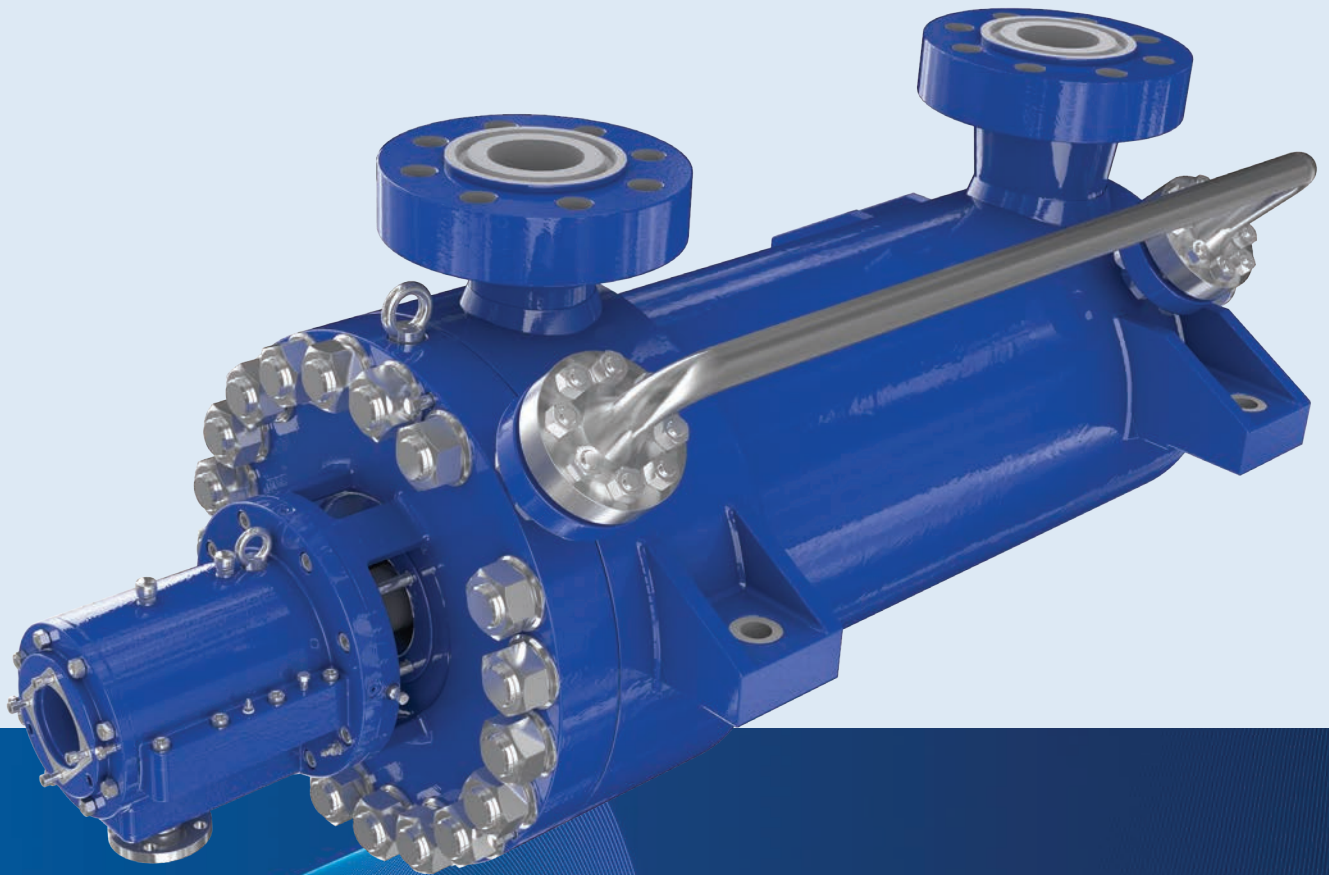




Specialist for Pumping Technology



JET WATER PUMP

HYDRAULIC DECOKING SYSTEMS

Ruhrpumpen has modified the existing barrel type process pumps to a strong Decoking Jet Water Pump Line.

DESIGN

Horizontal barrel pump, BB5 type according to API 610 latest edition.

No. of stages	up to 12
Impeller	Individually secured at the shaft, with separate shrink fit One keyway per impeller outside shrink fit area
Shaft	Stepped shaft
Bearing	Radial, sleeve Axial Kingsbury Thrust Bearing JHJ 9" (229 mm)
Lubrication	Forced feed, shaft driven or by external lube oil pump
Flanges	Suction 300# up to 2500#, Discharge 2500#
Drain	Casing drain
Vent	Not applicable
Balancing line	With flow transmitter

HYDRODYNAMICS

Suction side	Single suction
Suction specific speed	Version A with 11,000 Version B with 9,500
Hydrodynamic design impeller	Closed impeller design Protected shaft with hydrodynamic optimized flow ways
Rotor	Wet stiff rotor design, minimized rotor span

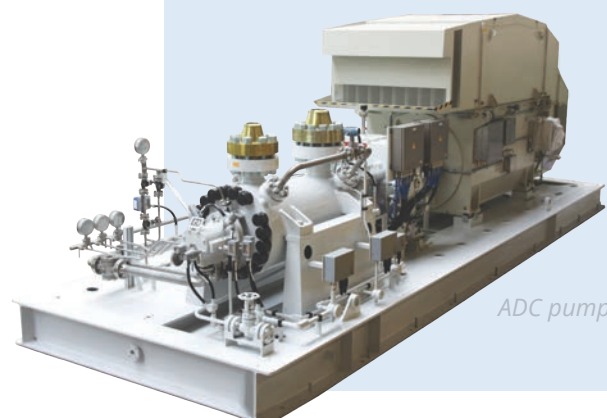
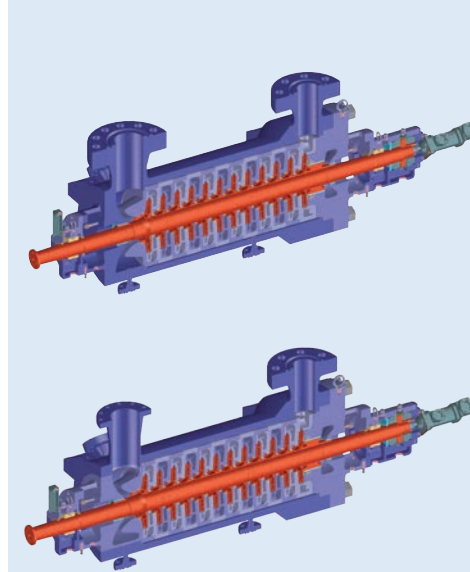
MATERIALS

Material class	Per API 610, C6 modified for Decoking NACE version available
Standard barrel	F6NM (Ca6Nm forged), NACE version available
Impeller	Ca6Nm, coated with DLC, first stage 17-4 pH
Diffuser	Ca6Nm
Impeller rings	Ca15 (with hardness difference acc. API) coated with DLC
Shaft	17-4 pH

OPERATING LIMITS

Differential Head	max. 3600 m (11811 ft) for flange class 2500#
Cutting Pressure	up to 350 bar (5076 psi)
Flow	up to 400 m ³ /h (1761 gpm)
Speed	up to 4500 min ⁻¹ (4500 rpm)
Power	up to 5000 kW (6705 HP)
Temperature	standard 65 °C (149 °F) / extended 95 °C (203 °F)

**For operation outside this range, please contact a Ruhrpumpen representative.*



ADC pump