



Specialist for Pumping Technology

INNOVATION
EFFICIENCY
QUALITY



DECOKING JET WATER PUMP

Hydraulic Decoking System

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

DESIGN

| | |
|-------------------------------|--|
| Horizontal Barrel Pump | BB5 according to API 610, latest edition |
| Number of Stages | Max 12 |
| Impeller | Individual 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" (229mm) |
| 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 | Impeller type: close design Protected shaft with hydrodynamic optimized flow ways |
| Rotor | Wet stiff rotor design, minimized rotor span |

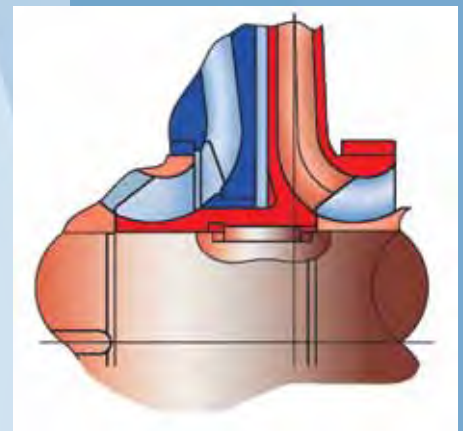
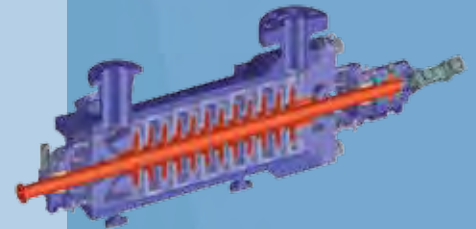
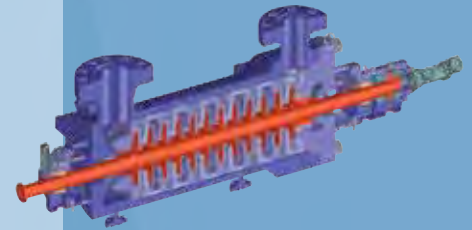
MATERIAL

| | |
|------------------------|--|
| Material Class | Per API 610, C6 modified for decoking, NACE version available |
| Standard Barrel | F6NM (Ca6Nm forged), NACE version possible |
| Impeller | Ca6Nm, coated with DLC, 1 st stage 17-4 pH |
| Diffusor | Ca6Nm |
| Impeller Rings | Ca15 (with hardness difference acc. API) coated with DLC |
| Shaft | 17-4 pH |

PERFORMANCE RANGE

| | | |
|-------------------|------------------------------|-----------------------------------|
| 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) |

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



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CORPORACION 