



Descaling Rotors

HIDROD

HIDROD, short for **H**auhinco **I**nternal **D**rive **R**Otor **D**escaler, stands for the highest available descaling quality. This technology can achieve a quality of hot rolled products unable to be matched by any other hydro mechanical descaling method. HIDROD sets the benchmark in descaling, while simultaneously using less water and energy.

Product characteristics

- Rotary driven descaling nozzle head for best possible descaling results
- Fully integrated asynchronous motor hermetically sealed to the atmosphere (Protection rating IP 67)
- Internal water cooling for usage under extreme conditions
- Robust and compact design, almost completely made of stainless steel
- Nozzle header is configurable for application and requirements
- Easy to maintain: all wear parts can be exchanged in installed condition
- Ideal designed nozzle speed, optionally also available with frequency drive
- Electronic monitoring of the drive is possible
- Easy replacement of installed rotors by other suppliers
- Impact of up to 15N/mm²

Main advantages of using HIDROD in descaling applications:

- Maximum impact at minimal water usage
- Less temperature loss of the material during the descaling process
- Best possible descaling results through an ideal ratio of impact to descaling time
- Suitable for all steel, stainless steel, copper and nonferrous products of any form and size

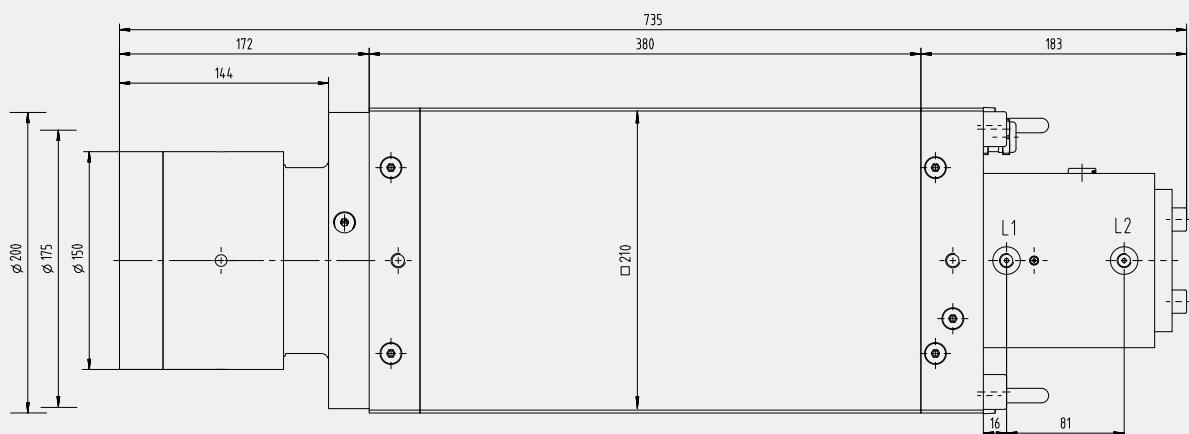
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Technical Data

	HIDROD-150	HIDROD-175	HIDROD-200
general			
Rotor width	150 mm	175 mm	200 mm
Process connection	SAE 1" / 420 bar (6,090 psi)		
Measurement connection (Pressure/Leakage)	G 1/4"		
Weight	~160 kg		
Number of nozzles in rotorhead	max. 8	max. 10	max. 12
Nozzle orientation	tangential 15°, radial 12° (more on request)		
Distance from material	from 10 mm		
hydraulic			
max. operating pressure	420 bar (6,090 psi)		
max. flow rate	200 l/min (58 gpm (US))		
Rotorhead-Speed [1/min]	500 / 750 / 1,000		
Fluid/-temperature	Wasser / 10 – 40 °C (50 °F – 104 °F)		
electric			
Motor type	3-asynchronous motor (50 Hz / 60 Hz)		
Voltage	400 V Y 460 V Y		
Temperature sensor	PTC PT100		
Protection rating	IP 67		
Heat class	155 °C (311 °F)		
Power	1 – 2 kW		
Direction of rotation	Counter-clockwise rotation CCW		
Cooling fluid	P ≤ 6 bar Qmin = 0 ... 5 l/min (20 °C / 68 °F)		

1 bar = 14.5038 psi | 1 l = 0.26417 Gal. | 1 kW = 1.3410 HP | 1 kg = 2.205 lbs



More detailed information is available upon request.