



## 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/mm<sup>2</sup>

### 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

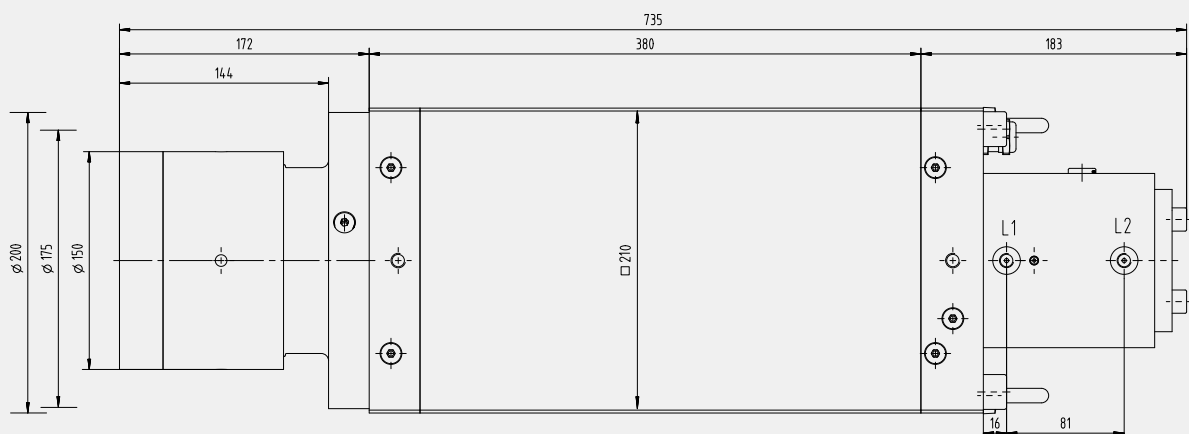
# Descaling Rotors

## HIDROD

### Technical Data

	HIDROD-150	HIDROD-175	HIDROD-200
<b>general</b>			
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		
<b>hydraulic</b>			
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	Water/ 10 – 40 °C (50 °F – 104 °F)		
<b>electric</b>			
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.