



## HDA PUMP

### Applications:

- Cutting, turning, milling, boring, grinding and similar applications of the machine tools,
- Cooling systems,
- Circulation systems. HDA Pumps are used for pumping of cutting / cooling fluids.

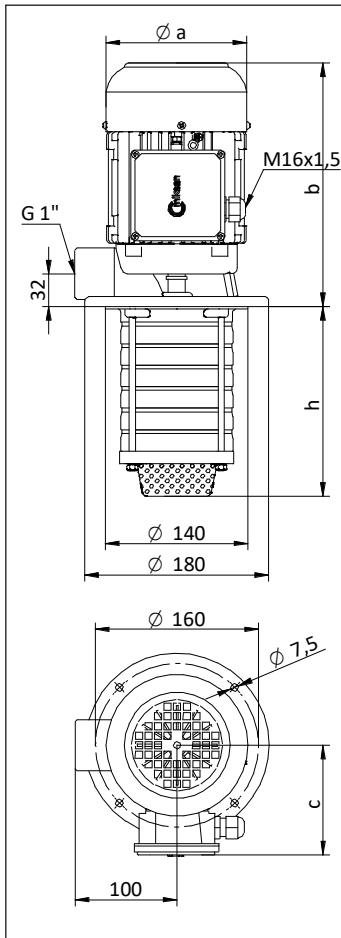
### Fluid Specifications:

- Coolants,
- Cutting oils,
- Grinding oils,
- Water,
- Fluid temperature 0...80 °C
- Kinematic viscosity 1...30 mm<sup>2</sup>/s

### Materials:

Pump body	: Cast iron - DIN GG 25
Bottom plate	: Sheet iron
Diffuser	: Stainless steel - DIN 4301 (AISI 304)
Impeller	: Stainless steel - DIN 4301 (AISI 304)
Strainer	: Stainless steel - DIN 4301 (AISI 304)
Pump shaft	: Stainless steel - DIN 4401 (AISI 316)
O-ring	: Viton
Mechanical seal	: C - SiC - Viton TuC - SiC - Viton (Optional) TuC - TuC - Viton (Optional)
Electric motor	: 3 phase induction motor 2 pole, 3000 rpm Protection degree IP 55

### DIMENSIONS & NOMINAL VALUES



TYPE	Depth of immersion h (mm)	a	b	c	Weight kg	Power kW	Voltage V(Δ/Y)	Frequency Hz	Rated current A	Speed rpm
		mm								
HDA/02	143	138	240	111	11.2	0.55	230/400	50	2.25/1.3	2780
HDA/03	143				11.4	0.55	230/400		2.25/1.3	2780
HDA/04	164				13.4	1.1	230/400		4.85/2.8	2720
HDA/05	185				13.6	1.1	230/400		4.85/2.8	2720
HDA/06	206				13.8	1.1	230/400		4.85/2.8	2720

\* The performance curves are based on 1 mm<sup>2</sup>/s (cSt) kinematic viscosity values and 1000 kg/m<sup>3</sup> density  
 \*\* Curve tolerance according to EN ISO 9906.  
 \*\*\* HDA/04, HDA/05 and HDA/06 pumps have IE2 motors. According to IEC 60034-30-1:2014 standard these pumps are excluded from efficiency class since their motors are completely integrated into the pump.

### Performance Curve

