

# HDP 74 High Pressure Triplex Pump for high performance cutting systems



## Pump Features

- Power ratings up to 70 kW
- Vertical 3 cylinder design
- Compact design

## Quality and reliability

- Stainless steel stress free pump head
- Bellows form hermetic seal between the suction chamber and crank section
- Choice of bronze (standard) or stainless steel suction chamber
- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Integral speed reduction gear
- Pressurised oil lubrication system with oil cooler/filter



## E-Motor 400 V / 50 Hz

Power 75 kW  
Speed: 1450 rpm  
Protection: IP 55  
Construction: 280 S / B 3

## Package features

- Stainless steel water tank with booster pump and filter
- Frequency converter for speed variation
- Stainless steel noise hood with large access doors for ease of maintenance

## Applications

Cold cutting of:

- Metals such as steel, stainless steel, aluminium
- Marble, granite
- Glass, armoured glass
- Ceramics
- Laminates
- Composites
- Plastics, rubbers
- etc.

# HDP 74, technical data

Hammelmann high pressure pumps are built to operate at the continuous maximum duty stated in the performance parameters. Just compare the crank shaft speed, average plunger speed, plunger diameter and power rating.

Q	Pump power HDP 74 [kW] *					Crank shaft rpm	Motor rpm	Frequency
[l/min]	14,8	29,6	44,4	59,1	67,9	n2	n1	Hz
2,1	3800					180	360	20
4,2		3800				360	720	30
6,3			3800			540	1080	40
8,4				3800		720	1440	50
10,5					3800	900	1800	60

- Rod force: 43 kN
- Stroke: 40 mm
- Mean piston speed at n<sub>2</sub>  
 625 r.p.m. = 0,84 m/sec  
 750 r.p.m. = 1,00 m/sec  
 900 r.p.m. = 1,20 m/sec

\* Need orientated power outputs via a frequency converter.



1750 mm

1130 mm



1305 mm



Weight 1350 kg

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