

HDP 44 High Pressure Triplex Pump for high performance cutting systems



Package features

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

Pump Features

- Power ratings up to 48 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
- Belt drive
- Pressurised oil lubrication system with oil cooler/filter



Applications

Cold cutting of:

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

E-Motor 400 V / 50 Hz

Power 45 kW
Speed: 1450 rpm
Protection: IP 55
Construction: 225 M / B 3



HDP 44, 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] | 9,6 | 19,1 | 28,7 | 38,2 | | | |
| 1,4 | 3800 | | | | | 150 | 360 | 20 |
| 2,7 | | 3800 | | | | 300 | 720 | 30 |
| 4,1 | | | 3800 | | | 450 | 1080 | 40 |
| 5,4 | | | | 3800 | | 600 | 1440 | 50 |
| 6,8 | | | | | 3800 | 750 | 1800 | 60 |

- Rod force: 41 kN
- Stroke: 30 mm
- Mean piston speed at n_2 610 r.p.m. = 0,61 m/sec

* Need orientated power outputs via a frequency converter.



Weight
1100 kg

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