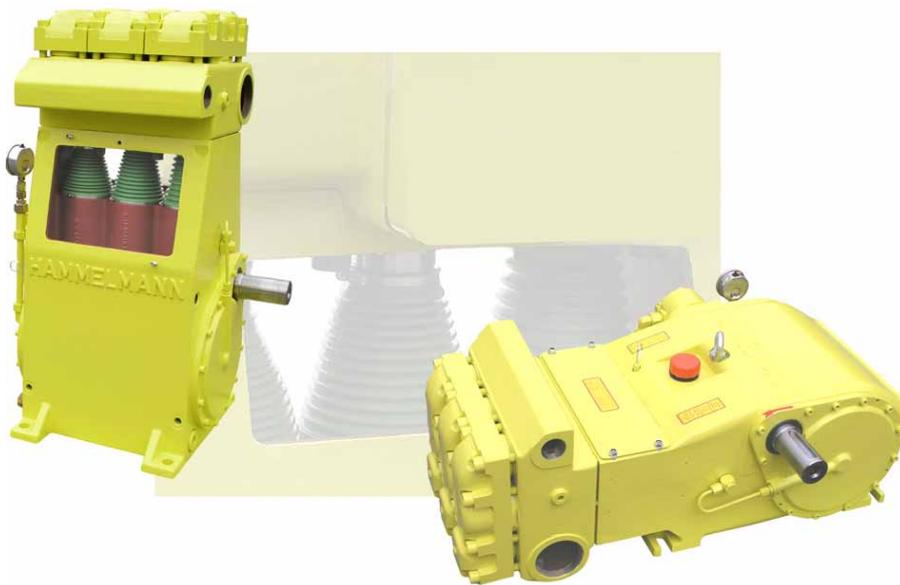


# HDP 146

## Sewer cleaning pump



### Compact design

- Optimum space utilisation
- Integral reduction gear

### Adaptability provides installation options

- Horizontal or vertical models
- Reversible pump head
- Central or side suction connection
- Discharge connections on both sides
- Left or right hand drive shaft
- Can operate at higher inclinations

### Water end: suitable for recycled water

Less wear due to :

- High grade solid ceramic plungers
- Wear resistant valve seats
- Low flow velocity over suction and discharge valves
- Packing seal sets within rust resistant stainless steel sleeves
- Slow plunger speed

### Drive end

- Hammelmann standard industrial drive end specifically designed for continuous duty
- Pressurised oil lubrication system
- High quality spheroidal cast iron housing
- Clockwise or anticlockwise rotation

### Easy servicing

- A single design for the suction and discharge valves
- Reversible valves and valve seats
- Service access via individual cover plates.
- Easy maintenance possible without removal of suction and pressure lines

### Environmentally friendly

- Quiet drive end due to twin helical gears
- Piston rods hermetically sealed by the NBR bellows, no oil leakage

## Installations



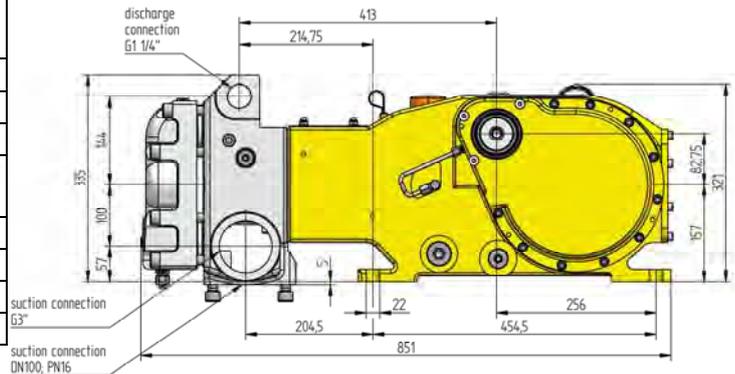
## Technical data HDP 146

- Rod force: 90 kN
- Stroke: 55 mm
- Mean piston speed at  $n_2$   
440 r.p.m. = 0,81 m/sec  
525 r.p.m. = 0,96 m/sec  
580 r.p.m. = 1,06 m/sec

[l/min]	Pressure [bar]	Power required [kW]	Piston $\varnothing$	$n_1$ [r.p.m.]	$n_2$ [r.p.m.]
270	230	113	70	1250/1500/1800	440
325	230	135	70	1500/1800/2150	525
357	210	135	70	1650	580
309	200	113	75	1250/1500/1800	440
370	200	135	75	1500/1800/2150	525
407	180	135	75	1650	580
352	175	113	80	1250/1500/1800	440
420	175	135	80	1500/1800/2150	525
462	160	135	80	1650	580

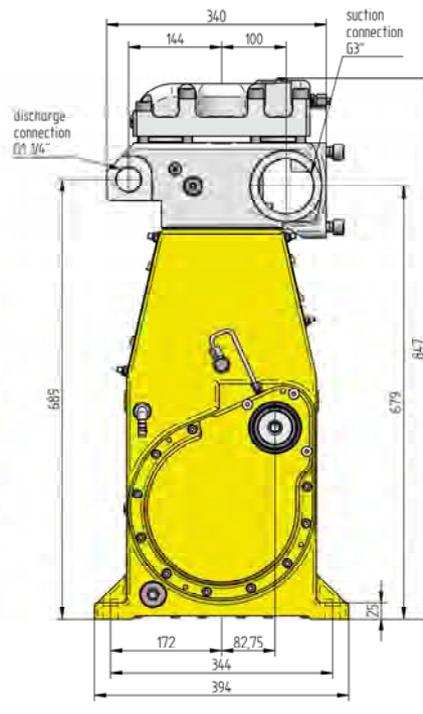
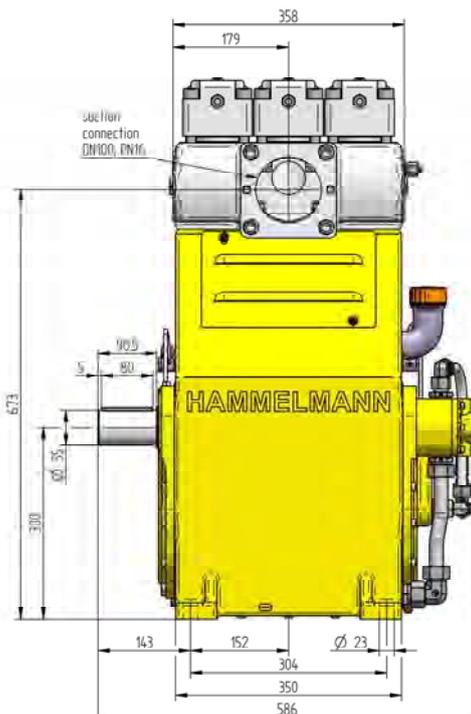
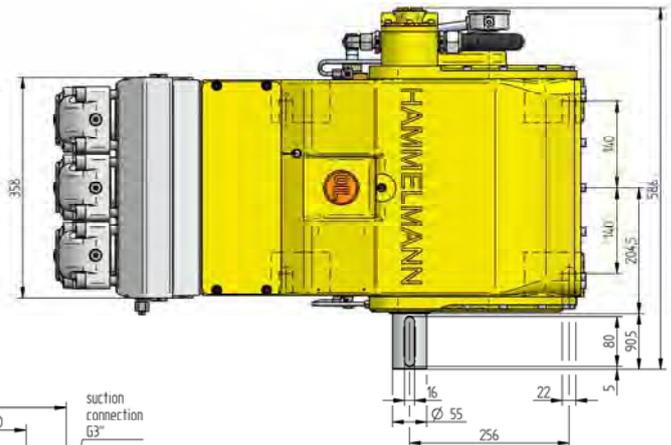
## Technical details

Design	Horizontal, vertical, 3 cylinder
Plungers	Solid ceramic
Plunger sealing	Packing
Crank section sealing	Bellows
Valves	With ancillary sealing for recycled water
Valves	Reversible
Crank section lubrication	Pressurised circulating
Crankshaft bearings	2 x roller
Drive shaft	Right or left



## Installation data

Weight incl. lub. oil	Approx. 375 kg
Mounting points	4 x M20
Mounting hole pattern	
HDP 146 horizontal	454 x 280 mm
HDP 146 vertical	344 x 304 mm
Drive shaft	55 mm dia. x 90,5 mm
Shaft key	DIN 6885 – A
Permissible lateral force	12 kN
Discharge connection	G 1 1/4" female
Suction connection	100 mm i/d, PN6 DIN 2 x 3 "



Horizontal design



Vertical design

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**HAMMELMANN**

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