

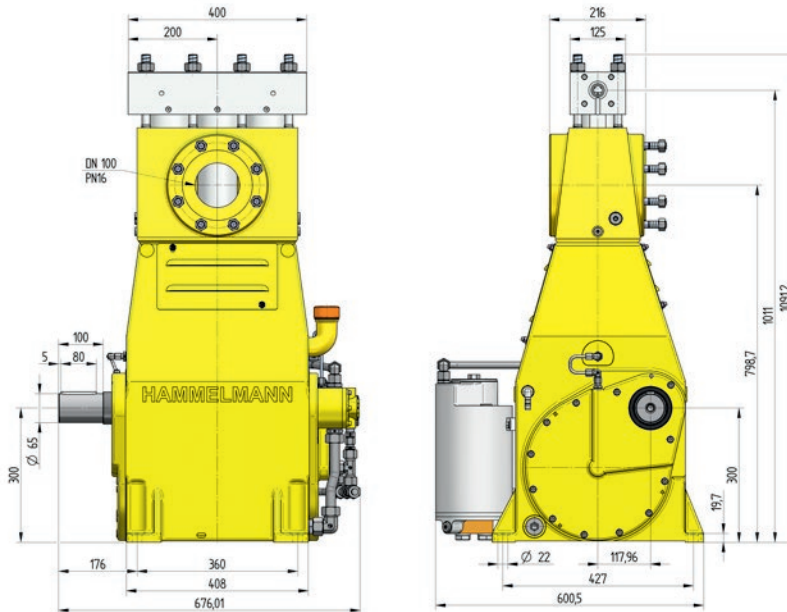
# HAMPRO 200 Process Plunger Pump

**HAMMELMANN®**

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

## Process Plunger Pump

Weight: approx. 525 kg

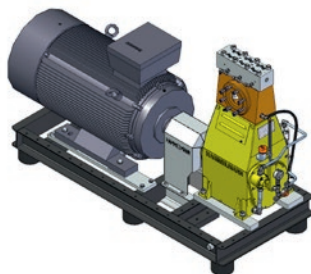


Dimensions: mm



## Stationary unit with electric motor

Length: 2038 mm  
 Width: 850 mm  
 Height: 1380 mm  
 Weight: approx. 2000 kg at 160 kW



Main dimensions without accessories such as suction line, pressure regulator etc. All shown as right side drive. Detailed dimensional drawings and weights available on request.

## Features

- Power ratings up to 200 kW
- Vertical 3 cylinder design

## Zero Emission



In the Zero Emission design the pumped fluid is hermetically sealed within the pump preventing leakage to atmosphere during operation.



The bellow system is gastight.

## Quality and reliability

- Crank section calculation by 'Finite element method' ensures long working life under continuous load
- Stainless steel pump head free of alternating stress
- Integral speed reduction gear
- Pressurised oil lubrication system with oil cooler/filter
- Bellows form hermetic seal between the suction chamber and crank section
- Large selection of materials available for different fluids
- Minimum crankshaft speed with external oil pump 32 r.p.m.

# Technical data, series HAMPRO 200

Performance parameters (Standard design)

HAM PRO	Q** [l/min]	Q** [m³/h]	Required power rating [kW]				D [mm]	r.p.m.	
			75	110	132	200		n1	n2
			Operating pressure [bar]						
204	18	1,08	1950	2850	3200		17,5	1220/1444	*400
	20	1,20	1900	2850	3200			1500	416
	28	1,68	1350	2000	2350	3200		1800/2150	593
	23	1,38	1500	2200	2650	2800	20	1220/1444	*400
	28	1,68	1450	2100	2500	2800		1500	416
	40	2,40	1000	1500	1750	2800		1800/2150	593

203	39	2,3	950	1400	1700		25	1220/1444	*400
	43	2,6	950	1350	1650			1500	416
	62	3,7	650	950	1150	1750		1800/2150	593
	50	3,0	750	1100	1350		28	1220/1444	*400
	55	3,3	750	1100	1300			1500	416
	78	4,7	500	750	900	1400		1800/2150	593

202	58	3,5	650	950	1150		30	1220/1444	*400
	61	3,7	650	950	1150			1500	416
	87	5,2	450	650	800	1200		1800/2150	593
	66	4,0	590	860	1020		32	1220/1444	*400
	70	4,2	570	830	990			1500	416
	100	6,0	400	580	700	1050		1800/2150	593
	80	4,8	490	720	860		35	1220/1444	*400
	84	5,0	470	690	830			1500	416
	120	7,2	330	490	580	880		1800/2150	593
	106	6,4	370	550	660		40	1220/1444	*400
	111	6,7	360	530	640			1500	416
	158	9,5	250	370	450	690		1800/2150	593
	136	8,2	290	430	520		45	1220/1444	*400
	143	8,6	290	420	510			1500	416
	202	12,1	200	300	360	540		1800/2150	593
	168	10,1	240	350	420		50	1220/1444	*400
	178	10,7	230	340	410			1500	416
	252	15,1	160	240	290	440		1800/2150	593
	205	12,3	190	290	350		55	1220/1444	*400
	216	13,0	190	280	340			1500	416
	303	18,2	140	200	240	360		1800/2150	593
	245	14,7	160	240	290		60	1220/1444	*400
	254	15,2	160	240	280			1500	416
	359	21,5	110	170	200	300		1800/2150	593
	289	17,3	140	200	250		65	1220/1444	*400
	298	17,9	140	200	240			1500	416
	425	25,5	100	140	170	260		1800/2150	593
	335	20,1	120	180	210		70	1220/1444	*400
	346	20,8	120	170	210			1500	416
	489	29,3	80	120	150	220		1800/2150	593

## Data

- Rod force: 88 kN
- Stroke: 75 mm
- Mean plunger speed at n2  
400 r.p.m. = 1,00 m/sec  
416 r.p.m. = 1,04 m/sec  
593 r.p.m. = 1,48 m/sec

## Certificates

- Machine directive 2006/42/EU
- ATEX 94/9/EU
- API 674 (with deviations)
- TA-Luft
- NORSOK M501
- NORSOK M650
- NACE MR0175

## Standards

- DIN EN ISO 9001
- DIN EN ISO 14001
- DIN EN ISO 50001
- BS OHSAS 18001
- ASME-U
- Achilles
- EAC



Hammelmann plunger pumps convert 93 to 98 % of the shaft power to hydraulic energy.

\*\* Data refer to the medium water (compressibility considered)  
\* Speed limit for continuous service according to API 674 – 6.3.1

D = Plunger diameter  
n1 = Motor/Engine r.p.m.  
n2 = Crankshaft r.p.m.

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