

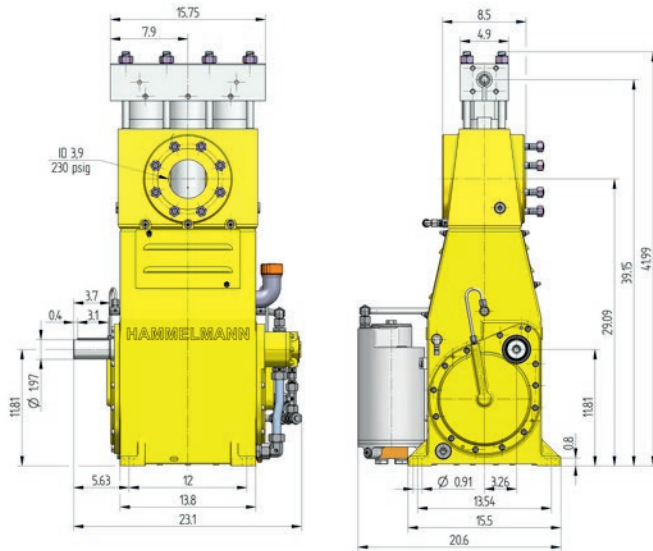
HAMPRO 140 Process Plunger Pump

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

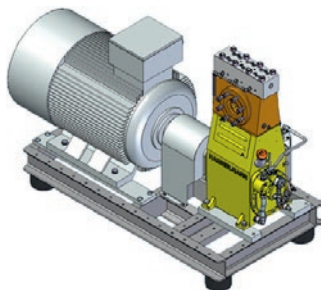
Weight: approx. 838 lbs



Dimensions: inches

Stationary unit with electric motor

Length: 77 inch
 Width: 34 inch
 Height: 52 inch
 Weight: approx. 3,527 lbs at 200 HP



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 HP
- 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 140

Performance parameters (Standard design)

HAM PRO	Q** [GPM]	Required power rating [HP]			D [mm]	r.p.m.	
		60	125	200		n1	n2
		Operating pressure [psig]					
144	3.43	24077	47863		17.5	1500	390
	3.96	21031	42062	52214		1417/1694	440
	5.81	16680	33504	51489		1800/2150	560
	4.76	18420	36840		20	1500	390
	5.28	15954	31909	40611		1417/1694	440
	7.13	12764	25672	40611		1800/2150	560

143	7.9	11748	23496		25	1500	390
	8.5	10298	20741	25382		1417/1694	440
	11.1	8267	16390	26107		1800/2150	560
	9.8	9283	18565		28	1500	390
	10.6	8267	16535	20596		1417/1694	440
	14.0	6527	12909	20741		1800/2150	560

142	11.4	8122	16390		30	1500	390
	12.4	7107	14359	17985		1417/1694	440
	16.1	5657	11458	17985		1800/2150	560
	12.9	6962	14069		32	1500	390
	14.0	6237	12618	15809		1417/1694	440
	18.5	4931	9863	15809		1800/2150	560
	15.6	5947	12038		35	1500	390
	17.2	5221	10588	13199		1417/1694	440
	22.2	4206	8412	13199		1800/2150	560
	20.6	4641	9138		40	1500	390
	22.7	4061	8122	10008		1417/1694	440
	29.3	3191	6382	9863		1800/2150	560
	26	3626	7252		45	1500	390
	29	3191	6382	7977		1417/1694	440
	38	2466	5076	7687		1800/2150	560
	33	2901	5947		50	1500	390
	36	2466	5076	6382		1417/1694	440
	47	2031	4061	6237		1800/2150	560
	40	2466	4931		55	1500	390
	44	2031	4206	5366		1417/1694	440
	57	1740	3336	5076		1800/2150	560
	46	2031	4061		60	1500	390
	52	1886	3481	4496		1417/1694	440
	67	1450	2901	4351		1800/2150	560
	55	1740	3481		65	1500	390
	61	1450	3046	3771		1417/1694	440
	78	1160	2321	3626		1800/2150	560
	63	1450	3046		70	1500	390
	71	1305	2611	3191		1417/1694	440
	91	1015	2031	3191		1800/2150	560

Data

- Rod force: 19,783 lbf
- Stroke: 2.2 inch
- Mean plunger speed at n2
390 r.p.m. = 2.6 ft/sec
467 r.p.m. = 2.7 ft/sec
560 r.p.m. = 3.4 ft/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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