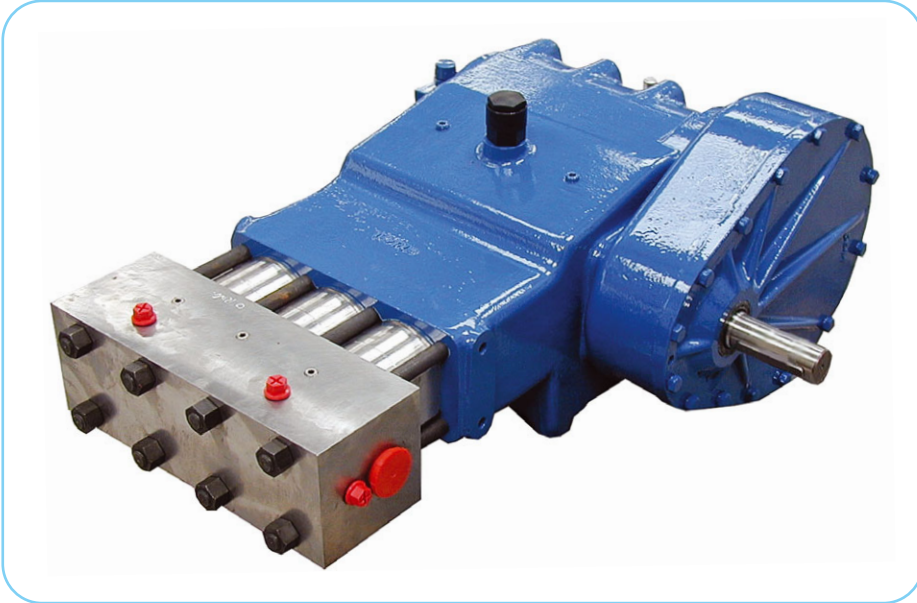


HPS 2200

High Pressure Triplex Pump



Water Jetting Solutions



Features

- 431 stainless steel pump head
- Solid ceramic plungers & self adjusting seals
- Interchangeable plunger kits
- Hardened, alloy steel crankshaft with heavy duty roller and steel backed white metal main bearings, supported between each connecting rod
- SG iron crankcase with splash lubrication and oil cooling
- Forged connecting rods with low friction, shell type big end bearings and lead bronze lined small end bushes
- Gear driven, eliminating the need for belt drive
- Safety relief valve
- Pressure gauge

Maximum Flowrate	231 lpm at 380 bar (50.9 igpm / 61.3 usgpm at 5,510 psi)
Maximum Pressure	1400 bar at 53 lpm (20,300 psi at 11.7 igpm / 14.1 usgpm)
Maximum Power	160 kW (220hp)

See overleaf for performance options

A robust design, the HPS2200 has a specification producing a heavy duty capability for dealing with the more difficult problems in industry.

The close coupled, gear driven power end has splash lubrication and oil cooling. SAE adaptor housings are available enabling the pump to be flange mounted to a diesel engine flywheel housing or electric motor ensuring extremely compact, perfectly aligned installations and enclosing all moving parts.

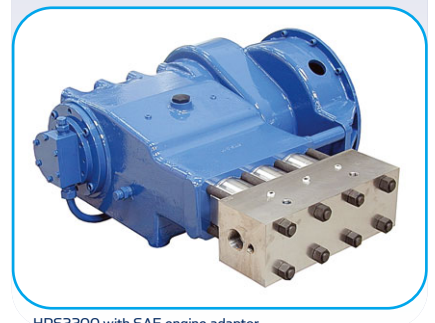
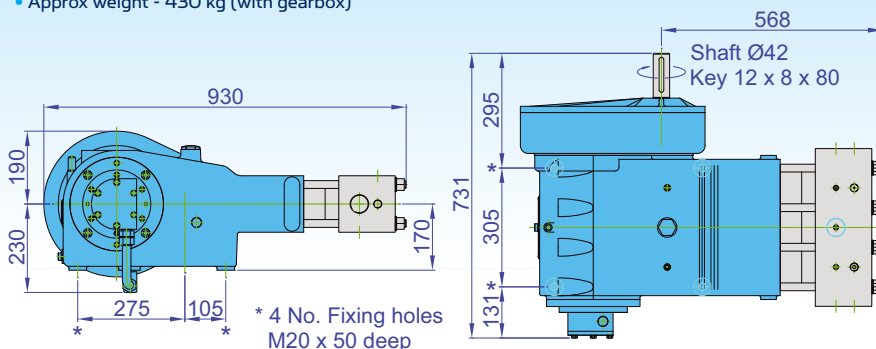
For maximum hydraulic efficiency, the in-line valve arrangement is designed to minimise the unswept volume and prevents the adverse effects of cyclic stress within the head block, while allowing all working components to be easily removed on site for service.

This improved design is capable of high pressure to high volume with outstanding seal, plunger and valve life.

Build Options

- 316 stainless steel pump head for seawater applications
- Choice of gear ratio to suit diesel engine or electric motor drive
- SAE adaptor housings (SAE 1, 2 or 3) for flange mounting the pump to a diesel engine flywheel housing or electric motor
- Available without gearbox for low speed direct drive
- Bareshaft pump only or complete unit build

- General Dimensions - typical pump build
- Approx weight - 430 kg (with gearbox)



HPS2200 with SAE engine adaptor

HPS 2200

High Pressure Triplex Pump



Water Jetting Solutions

Plunger Diameter mm	Gear ratio Input Speed (rpm)				Pump Speed rpm	Power Required		Nominal Flowrate			Max Pressure	
	1500	1800	2000	2200		kW	HP	lpm	igpm	usgpm	bar	psi
24	4.50				333	94	126	36	8.0	9.6	1400	20,300
			5.71		350	99	133	38	8.4	10.1		
				5.71	385	109	146	42	9.2	11.1		
		4.50			400	113	151	43	9.6	11.5		
	3.70				405	114	153	44	9.7	11.7		
			4.50		444	125	168	48	10.6	12.8		
30		3.70			486	137	184	53	11.6	14.0	1000	14,500
				4.50	489	138	185	53	11.7	14.1		
	4.50				333	105	141	57	12.4	15.0		
			5.71		350	110	148	59	13.1	15.8		
				5.71	385	121	163	65	14.4	17.3		
		4.50			400	126	169	68	14.9	18.0		
35	3.70				405	128	171	69	15.1	18.2	940	13,630
			4.50		444	140	188	75	16.6	20.0		
		3.70			486	153	206	83	18.2	21.9		
				4.50	489	154	207	83	18.3	22.0		
	5.71				263	106	142	61	13.3	16.1		
		5.71			315	127	170	73	16.0	19.3		
40	4.50				333	134	180	77	16.9	20.4	720	10,440
			5.71		350	141	189	81	17.8	21.4		
				5.71	385	155	208	89	19.6	23.6		
		4.50			400	161	216	92	20.3	24.5		
	3.70				405	163	219	94	20.6	24.8		
	5.71				263	106	142	79	17.4	21.0		
45		5.71			315	127	170	95	20.9	25.2	560	8,120
	4.50				333	134	180	101	22.1	26.6		
			5.71		350	141	189	106	23.2	28.0		
				5.71	385	155	208	116	25.6	30.8		
		4.50			400	161	216	121	26.5	32.0		
	3.70				405	163	219	122	26.9	32.4		
50	5.71				263	104	140	100	22.1	26.6	460	6,670
		5.71			315	125	168	120	26.5	31.9		
	4.50				333	132	177	127	28.0	33.7		
			5.71		350	139	186	134	29.4	35.4		
				5.71	385	153	205	147	32.4	39.0		
		4.50			400	159	213	153	33.6	40.5		
55	3.70				405	161	216	155	34.0	41.0	380	5,510
	5.71				263	106	142	124	27.2	32.8		
		5.71			315	127	170	149	32.7	39.4		
	4.50				333	134	180	157	34.6	41.6		
			5.71		350	141	189	165	36.3	43.7		
				5.71	385	155	208	182	39.9	48.1		
55		4.50			400	161	216	189	41.5	50.0	380	5,510
	3.70				405	163	219	191	42.0	50.6		
	5.71				263	106	142	150	33.0	39.7		
		5.71			315	127	170	180	39.5	47.6		
	4.50				333	134	180	190	41.8	50.4		
			5.71		350	141	189	200	43.9	52.9		
55				5.71	385	155	208	220	48.3	58.2	380	5,510
		4.50			400	161	216	228	50.2	60.5		
	3.70				405	163	219	231	50.9	61.3		

Additional Notes. 1. Flowrates indicated are swept volume & will reduce by approximately 5% at full pressure
 2. Other gear ratios are available for specific applications, consult Hughes Pumps Ltd 3. Pump stroke 80mm

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In line with the Company's policy of research and development, alterations in design, dimensions and appearance are incorporated from time to time in order to ensure that important developments are included at the earliest opportunity. The Company, therefore, reserves the right to alter design, dimensions etc without notice.