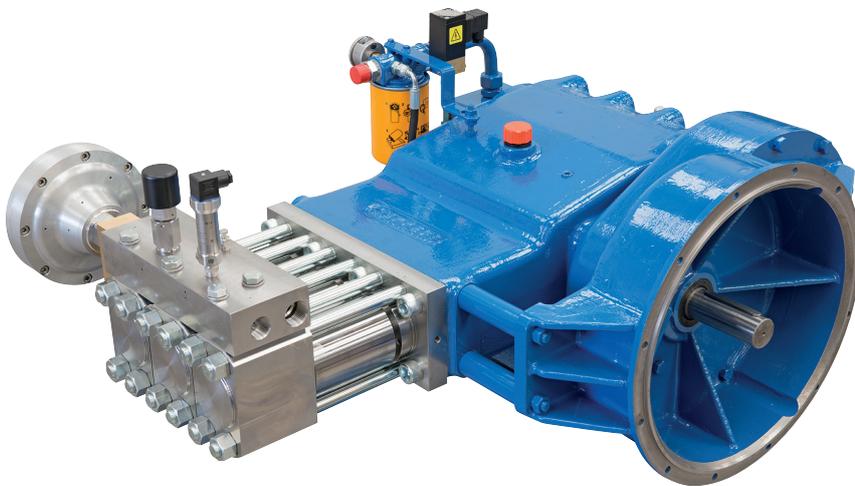


Ultrabar30 UHP Triplex Pump



High & Ultra High Pressure Technology



Ultrabar30 with SAE engine adaptor

Convertible to HP

Maximum Flowrate	45 lpm at 2000 bar (9.8 igpm / 11.8 usgpm at 29,000psi)
Maximum Pressure	3000 bar at 30 lpm (43,500 psi at 6.6 igpm / 7.9 usgpm)
Maximum Power	170 kW (228hp)

See overleaf for performance options

The Ultrabar 30 model is ideal for single or twin gun applications.

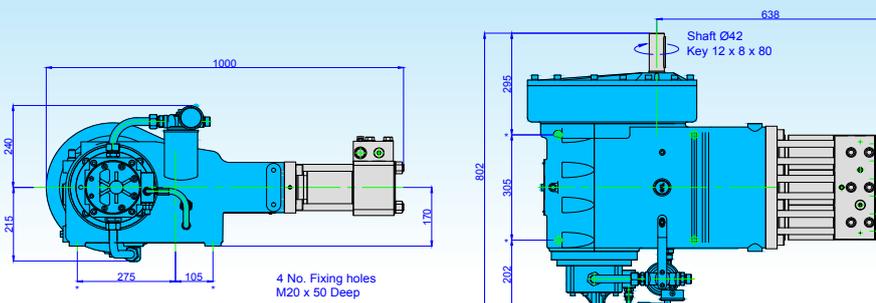
The close coupled, gear driven power end has pressure lubrication, filtration and oil cooling. SAE adaptor housings are available enabling the pump to be flange mounted to a diesel engine flywheel housing or electric motor ensuring extremely compact, perfectly aligned installations and enclosing all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

The Ultrabar range of pumps include design features that allow seals and valves to be monitored without tools and maintenance on individual cylinders.

This improved design is capable of Ultra High Pressure with outstanding seal, plunger and valve life.

The pump can be converted to High Pressure (HP) by changing the plunger kit and pumphead.

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

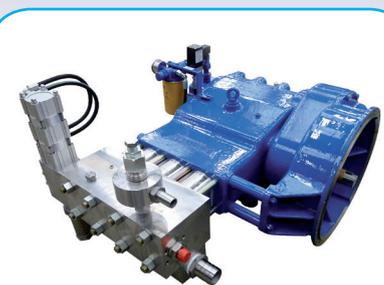


Features

- Solid ceramic plungers with floating crosshead attachment
- Self adjusting seals with internal water cooling
- Hardened, alloy steel crankshaft with heavy duty roller and steel backed white metal main bearings, supported between each connecting rod
- SG iron crankcase with pressure lubrication, filtration 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
- Burst disc for overpressure protection

Build Options

- Choice of gear ratio to suit diesel engine or electric motor drive
- SAE adaptor housings (SAE 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
- Dump valves
- Pressure adjusting valves
- Bare shaft pump only or complete unit build
- ATEX compliant
- Conversion kits for High Pressure (HP)



Pump fitted with 1000 bar pumphead

Ultrabar30 UHP Triplex Pump



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
18	4.50				333	113	152	20	4.5	5.4	3000	43,500
			5.71		350	119	160	21	4.7	5.7		
				5.71	385	131	175	24	5.2	6.2		
		4.50			400	136	182	24	5.4	6.5		
		3.70			405	138	185	25	5.4	6.6		
			4.50		444	151	202	27	6.0	7.2		
20				4.50	486	165	222	30	6.5	7.9	2400	34,800
				4.50	489	166	223	30	6.6	7.9		
	4.50				333	112	150	25	5.5	6.7		
			5.71		350	118	158	26	5.8	7.0		
				5.71	385	129	174	29	6.4	7.7		
		4.50			400	134	180	30	6.6	8.0		
22				3.70	405	136	183	31	6.7	8.1	2000	29,000
			4.50		444	149	200	34	7.4	8.9		
		4.50			486	163	219	37	8.1	9.7		
				4.50	489	164	220	37	8.1	9.8		
	4.50				333	113	151	30	6.7	8.1		
			5.71		350	119	159	32	7.0	8.5		
24				5.71	385	130	175	35	7.7	9.3	1400	20,300
		4.50			400	135	182	36	8.0	9.7		
		3.70			405	137	184	37	8.1	9.8		
			4.50		444	151	202	41	8.9	10.7		
			3.70		486	165	221	44	9.8	11.8		
				4.50	489	166	222	45	9.8	11.8		

Additional Notes. 1. Flowrates indicated are swept volume & will reduce with pressure
 2. Pumps stroke 80mm 3. 5 bar (73psi) inlet pressure required, filtered to 1 micron

The Ultrabar 30 pump can be converted to a High Pressure (HP) HPS2200 pump by changing plungers and pumphead. Performances for 24 & 30mm plungers are shown below, up to 55mm plungers can be fitted.

HPS2200 High Pressure Triplex Pump

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	4.5				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
				3.70	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	15.7		
				5.71	385	121	163	65	14.4	17.3		
		4.50			400	126	169	68	14.9	18.0		
30				3.70	405	128	171	69	15.1	18.2	1000	14,500
			4.50		444	140	188	75	16.6	20.0		
			3.70		486	153	205	83	18.1	21.9		
				4.50	489	154	206	83	18.2	22.0		
	4.50				333	105	141	57	12.4	15.0		
			5.71		350	110	148	59	13.1	15.7		

Additional Notes. 1. Flowrates indicated are swept volume & will reduce with pressure
 2. Pumps stroke 80mm 3. 3 bar (43psi) inlet pressure required, filtered to 25 micron

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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.