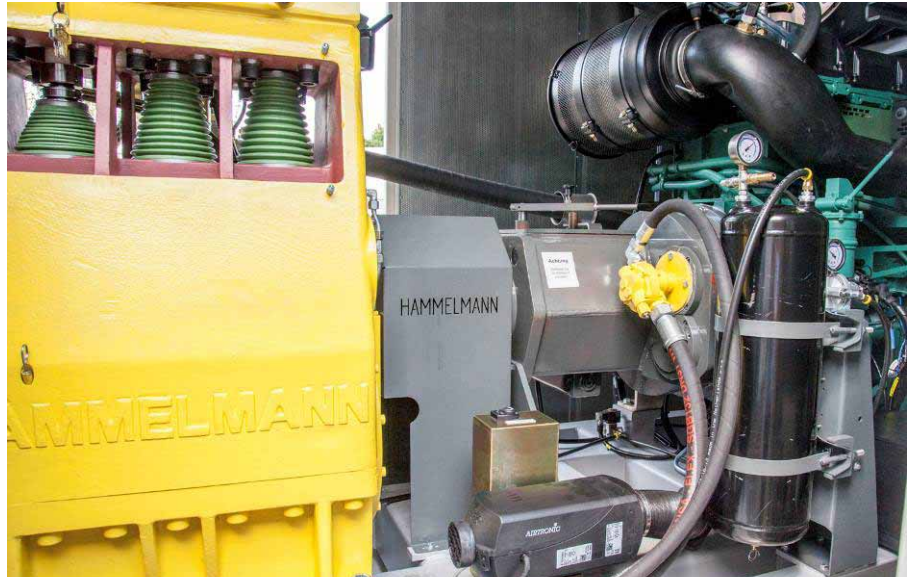


Series 50 Diesel driven high pressure pump unit with manual 3 speed transmission

This new pump unit enable you adapt the low rate to suit the type of work you are carrying out. The 3 transmission ratios 1:1, 1:2 and 1:6 cover the most important areas of industrial cleaning.

1. Gear: Full pump power as typically employed for tank cleaning
2. Gear: Medium pump power for pipe and tube bundle cleaning
3. Gear: Low pump power for manual blasting gun work

The biggest benefit for you is the reduced diesel fuel consumption as you only generate the power you actually need



For manual blasting gun work the high pressure pump shaft only rotates at 1/6 th of maximum engine speed thereby saving up to 58 l/hour of fuel

The low speed reduces wear on the pump and engine by operating in the partial load range

- The environmental benefits include lower CO² and noise emissions
- Lower torque on the engine in gears 2 and 3 at the same pressure
- The tank is hot water free (no overflow water)
- The individual gears are simply selected when the engine is not running



HDP 500 fuel consumption with CAT C18 and 3 speed manual transmission

Engine speed rpm	Gear	Pump speed rpm	Pump power rating kW	Q l/min Flow rate	P bar Operating pressure	Specific fuel consumption g/kW hour	Motor power rating kW	Fuel consumption l/hour
1800	1	1800	500	262	1040	200	520	122
1100	1	1100	299	157	1040	199	325	76
1800	2	900	245	129	1040	245	255	73
1100	2	550	143	78	1040	202	152	36
1800	3	300	76	42	1040	242	86	24
1100	3	183	48	26	1040	263	58	18

Fuel saving with transmission when working with a manual blasting gun 58 l/hour
CO² reduction 210 kg/hour

Series 50 Diesel driven high pressure pump unit with manual 3 speed transmission

- Type overview
- Aquajet® 50 to 3000 bar
 - S 1600 - 50 to 1630 bar
 - S 1100 - 50 to 1040 bar

All „S Class“ and „Aquajet“ units are complete with :

- Rigid base frame with anti vibration mounting feet
- Insulated spiral silencer installation (32 dB(A) reduction) with exhaust and rain cap, particle filter or Ad Blue
- ES 2 electronic control and monitoring system with digital display for pump and diesel engine
- Pneumatic system with shaft driven compressor, air tank and bypass control
- Pneumatic pressure regulating valve or bypass valve
- Stainless steel suction side installation with boost pump and water filter („S Class“: 200µ & 10µ „Aquajet“: 1 µ)

There are optional extras available which include pump head lifting device, heating systems, water tanks and fuel tanks.

The following data table shows just a few examples from the wide range of performances combinations.

Unit Type	Pump Typ	Op. pressure [bar]	Flow-rate [l/min]	Power rating [kW]
Aquajet® 50	HDP 504	3000	77	450
S 1600 - 50	HDP 503	1630	166	500
	HDP 503	1290	212	
S 1100 - 50	HDP 502	1040	262	

Energy efficient →

- Rod force: 210 kN
- Stroke: 100 mm
- Mean piston speed at n₂
315 rpm = 1.06 m/sec
380 rpm = 1.27 m/sec
465 rpm = 1.54 m/sec



„S Class“ and „Aquajet“ units can be built into 20 / 25 ft. sound damped containers, sound damped aluminium truck bodies or trailer containers (BDF).

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