



# HPS5000

## HIGH PRESSURE QUINTUPLEX PUMP



Pump Head Type	Very High Pressure			Standard				High Volume			
	Diameter - mm	25	30	35	40	45	50	55	60	65	70
Input Power - kW	220	320	312	375				375			
Pump Speed - rpm	350			350				350			
Flow Rate - l/min	86	124	168	220	278	344	416	495	581	673	773
Pressure - bar	1380		1000	920	728	590	488	409	349	300	262

Flow Rates indicated are swept volume at maximum speed

The most powerful pump in the Hughes range, the HPS5000 has a specification producing a heavy duty capability for dealing with the more difficult problems of industry.

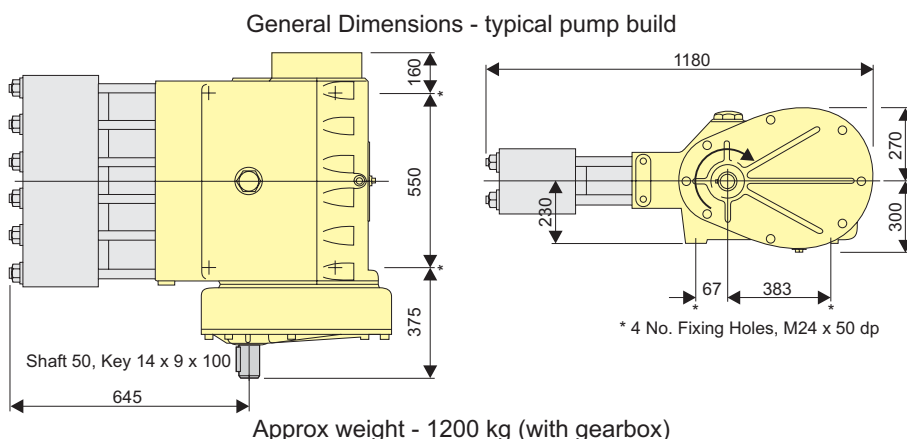
The standard 5 cylinder build has an inherently smooth flow characteristic, flow variation is reduced to less than a third when compared to the more common triplex arrangement.

The close coupled, gear driven power end has pressure lubrication, filtration and oil cooling. A standard adaptor housing is available enabling the

pump to be flange mounted to a diesel engine flywheel housing or electric motor ensuring extremely compact and perfectly aligned installations.

For maximum hydraulic efficiency, the in-line valve pump head arrangement is designed to minimise the unswept volume.

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



### Features:

- \* Robust, rugged and reliable
- \* Versatile (interchangeable fluid heads and plunger kits)
- \* Stainless steel fluid heads (431 standard or 316)
- \* 375 kW (500 hp) input
- \* Hardened, alloy steel crankshaft with heavy duty, 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

### Build Options:

- \* Choice of gear ratio to suit electric motor or diesel engine drive
- \* Standard adaptor housing (SAE 1) for flange mounting the pump to a diesel engine flywheel housing or electric motor
- \* Piston kits for high volume applications
- \* Safety relief valves
- \* Unloading valves
- \* Selector/Diverter valves (manual or actuated)
- \* Complete unit build or bare shaft pump only



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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.