

QUINMAX S500 SERIES | DATA SHEET

File No: QUINS500

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Supersedes: New

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PRODUCT DESCRIPTION

- The Quinmax S500 Pump is designed to provide a safe, reliable supply of high-pressure water-based fluids for both mining and heavy industrial applications.

PUMP DESIGN DATA

- Compact horizontal 5-plunger design.
- Power ratings up to 500hp.
- Innovative design for increased crank speeds and loading.
- Drained Glandwell to separate the oil and fluid ends of the pump, to stop contamination.
- Pump designed with Finite Element Analysis to validate pump performance and reliability.
- Wetted components designed with Computational Fluid Dynamics to maximise efficiency.
- 40% reduction in fluid velocity reducing hydraulic noise when compared to the Trimax series.
- Smooth pressure profile, reduced impact of surges on critical components (hoses, seals, valves).

EXAMPLE DUTY POINTS

Pump Type	Max Duty (Metric)		Max Duty (Imperial)		Frequency	Motor Input Speed	Max Crank Speed	Max Power	
	LPM @ BAR		USGPM @ PSI		Hz	RPM	RPM	kW	HP
S500	798	250	210.8	3,625	50	1,475	605	375	500
	493	400	130.1	5,800					
S500	878	250	232.0	3,625	60	1,770	665		
	542	400	143.2	5,800					

* Flowrates based upon 98% volumetric efficiency.

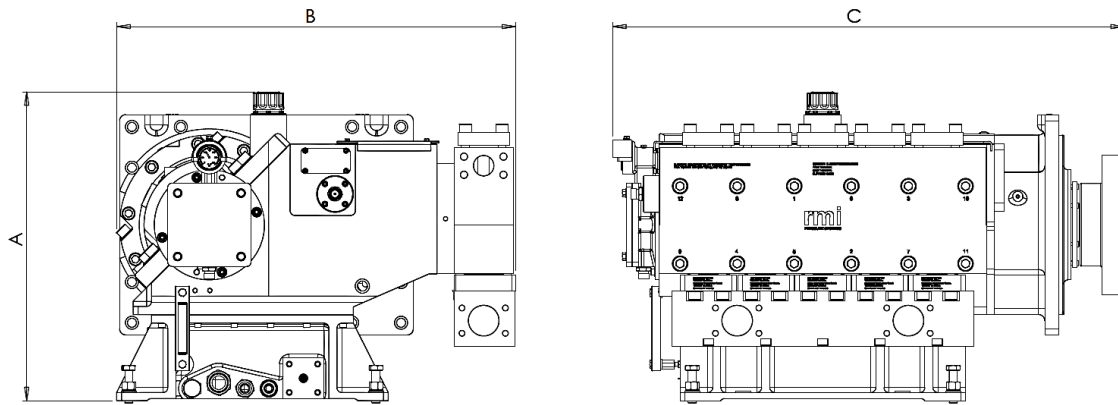
CONSTRUCTION

- Valves: High grade stainless steel for maximum life.
- Valve Chest: High grade stainless steel or E.N.P carbon steel.
- Plungers: High purity ceramic plungers or tungsten carbide plungers.
- Bearings: Spherical roller main journals with lead bronze small and big ends.
- Valve Lifters: Fitted as an optional, for safe pressure control.
- Unloading Valve: Fitted as an optional, for safe flow diversion. (ATEX, IECEx, MA)
- Gland Packing: Self-adjusting spring-loaded Kevlar packing, for maximum sealing.

OPERATION

- Designed for 24/7 duty.
- Inlet pressures between 1 to 8 bar.
- Forced lubrication throughout pump to critical areas.
- Pump supplied with oil filter and heat exchanger as standard.
- Health monitoring including oil temperature, level and pressure as standard.
- Operated with variable frequency drives to meet customer demand.

Further information on the S500 pump is available on request.



DIMENSION DATA

mm (inches)

A: 757 (29.8)

B: 978 (38.5)

C: 1255 (49.4)

D: 800 (31.5)

WEIGHT: TBC

ALABAMA, USA
+1 (205) 483 0350

BEIJING, CHINA
+86 213756 6696

GUJARAT, INDIA
+91(0) 85058 95050

MANCHESTER, UNITED KINGDOM
+44 (0) 8444 145 145

NEW SOUTH WALES, AUSTRALIA
+61 (02) 4954 0163

SHANGHAI, CHINA
+86-21-3756-6696