

TRIMAX S50 SERIES | DATA SHEET

File No: TRIS50
 Date: March 2019
 Supersedes: New
 Date: New

PRODUCT DESCRIPTION

- The Trimax S50 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 3-plunger design.
- Power ratings up to 50hp.
- 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.

EXAMPLE DUTY POINTS

Pump Type	Max Duty (Metric)		Max Duty (Imperial)		Frequency Hz	Motor Input Speed RPM	Max Crank Speed RPM	Max Power	
	LPM @ BAR		USGPM @ PSI					kW	HP
S50	140	140	37.1	2,030	50	1,475	500	38	50
	43	400	11.4	5,800					
	168	140	44.5	2,030	60	1,770	600		
	52	400	13.7	5,800					

* Flowrates based upon 98% volumetric efficiency.

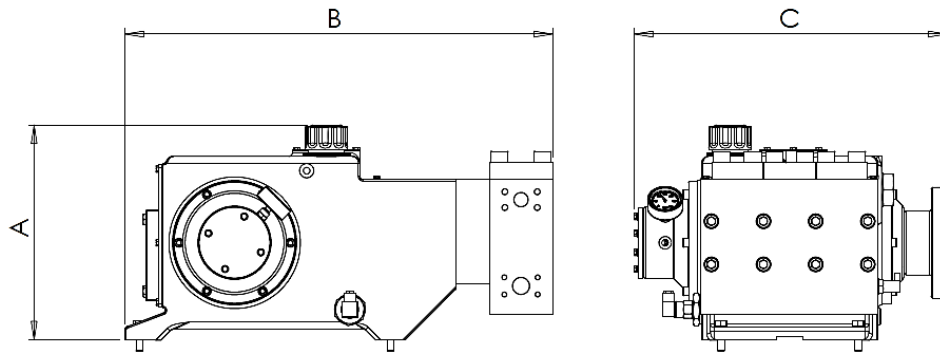
CONSTRUCTION

- 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 rams.
- 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 S50 pump is available upon request.

**DIMENSION DATA**

mm (inches)

A: 380 (14.5)**B:** 755 (29.7)**C:** 552 (21.7)**D:** 458 (18.0)**WEIGHT:**

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