SPECIFICATIONS

TSURUMI PUMP

FEATURES

- Semi-open, Mixed Flow, impeller, with replaceable adjustable wear plate, increases wear resistance when pumpage contains abrasive particles.
- 2. Double inside mechanical seals with silicon carbide faces, (both top and bottom) running in an oil filled chamber and further protected by a lip seal running against a replaceable, 430 stainless steel shaft sleeve, provides for the most durable seal design available.
- Highly efficient, continuous duty air filled, copper wound motor with class E, B, F insulation minimizes the cost of operation.
- 4 .Double shielded, permanently lubricated, high temperature C3 ball bearings, rated for a B-10 life of 60,000 hours, extend operational life.

SPECIFICATIONS

Discharge Size Horsepower Range Performance Range Capacity Head Maximum water temperature Materials of Construction Casing Impeller Agitator Shaft Motor Frame Fasteners Mechanical Seal Elastomers Impeller Type Solids Handling Capability

Bearings

Motor Nomenclature Type, Speed, Hz. Voltage, Phase Insulation

Accessories

Operational Mode

KRS2 - SERIES HIGH VOLUME - DEWATERING PUMP

- 5. Top discharge, flow-thru design enables operation at low water levels for extended periods.
- 6. 4 pole motor increases product life and offers greater convenience.
- 7. Agitator installed on the motor shaft extension forcibly agitates the fluid for easy and efficient transmission of sludge and slime.(KRS2-80/ -100/-150/KRS822L-SK)

APPLICATIONS

- 1. Commercial, industrial wastewater and construction site drainage.
- 2. Effluent transfer.
- 3. Decorative waterfalls and fountains.
- Raw water supply from rivers or lakes.

STANDARD

3 ~ 14" NPT (80 ~ 350 mm) 3 ~ 50 HP. (2.2 ~ 37 kW) 66.0~4359.0 GPM.(0.25~16.50 m³/min) 16.4 ~ 113.0 Ft. (5.0 ~ 34.4 m) 104^o F. (40^o C.)

Cast Iron Ductile Cast Iron , High Chrome Cast Iron (KRS2-80/-100/-150/KRS822L-SK) 420 Stainless Steel Cast Iron 304 Stainless Steel Silicon Carbide NBR (Nitrile Butadiene Rubber) Semi-open , Mixed Flow ,with Agitator 0.472 - 1.97" (12.0 - 50.0mm)

Prelubricated, Double Shielded

Air Filled, 1800 RPM, 60 Hz. 208/230/460/575 V., 3 Phase Class E, F, B

Submersible Power Cable 50' (15.0 m)

Manual



Length as Required

TS-301 Float Switch

60-PC-KRS-0A



KRS - SERIES HIGH VOLUME - DEWATERING & AGITATOR PUMPS

RANGE







Tsurumi Pump

KRS - SERIES HIGH VOLUME - DEWATERING PUMPS

Performance Curve





DIMENSIONS:USCS (Inch)

Model	HP	NOM.	Pump & Motor					C.W.L.	*Wt.	
		SIZE	Α	A1	В	B1	D	Н	W1	(lbs.)
KRS815-61	20	8"	18 15/16	13 11/16	38 9/16	32 15/16	17 5/16	37 3/8	10 7/8	530

*Excluding Cable

DIMENSIONS:METRIC (mm)

Model	kW	NOM.	Pump & Motor					C.W.L.	*Wt.	
		SIZE	Α	A1	В	B1	D	Η	W1	(kg)
KRS815-61	15	200	481	347	979	837	440	949	275	240

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ITEM#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	Q'TY
1	Power Cable	Chloroprene Sheath AWG6/4-50ft			1
6	Stuffing Box	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
20	Pump Casing	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
21	Impeller	Ductile Cast Iron	A536 100-70-03	EN 1563 GJS-700-2	1
22	Suction Cover	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
23	Suction Strainer	Steel (Cold Rolled)	A109/A1008	EN 10130	1
25	Mechanical Seal	Silicon Carbide / H-40			1
26	Oil Seal	NBR / TC-456812			1
30	Oil Lifter	PBT Plastic W/(GF+MD)40			1
32	Discharge Connection	Cast Iron / NPT 8"	A48M Class30B	EN 1561 GJL-200	1
35	Oil Plug	Stainless Steel	S 30400	1.4301	2
36	Lubricant	Turbine Oil ISO VG32 or SAE 10W-20			
49	Bottom Plate	Malleable Cast Iron	A47 Grade 32510	EN 1562 GJMB-350-10	1
50	Motor Bracket	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
52A	Upper Bearing	#6309ZZC3			1
52B	Lower Bearing	#6311ZZC3			1
53	Motor Protector				1
54	Shaft	Stainless Steel	S 42000	1.4028	1
55	Rotor				1
56	Stator				1
60	Bearing Housing	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
64	Motor Housing	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
68	Handle	Steel Pipe + Steel (Cold Rolled)	A53 Type F + A109/A1008	DIN 1615 St 33 + EN 10130	1
71	Shaft Sleeve	Stainless Steel	S 40300	1.4000	1

KRS815-61



KRS - SERIES HIGH VOLUME - DEWATERING PUMPS

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

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2. MATERIALS OF CONSTRUCTION -

Construction of major parts of the pumping unit(s) shall be as follows: Pump casing shall be gray cast iron, ASTM A48 CLASS 35. Motor frame shall be gray cast iron. Field adjustable/replaceable wear plate shall be gray cast iron (ASTM A48 CLASS 35) or high chrome cast iron (40 HP and above). Impellers on units up to 30 HP / 8" bore shall be of the multi-vane semi -open design, and shall be ductile cast iron (ASTM A536 100-70-03). Impeller on KRS1022 shall be of the multi-vane enclosed design, and shall be ductile cast iron (ASTM A536 100-70-03). Impellers on KRS-1230/1437 shall be of the multi-vane semi-open design, and shall be ductile cast iron (ASTM A536 100-70-03). Impellers on KRS-1230/1437 shall be of the multi-vane semi-open design, and shall be high chrome cast iron. Impellers shall be equipped with back pump out vanes, slip fit to the shaft and key driven. Internal and external surfaces coming into contact with the pumpage shall be protected by a fused polymer coating. All exposed fasteners shall be stainless steel. All units shall be furnished with ______" NPT discharge connector.

3. MECHANICAL SEAL -

All units shall be furnished with a dual inside mechanical shaft seal located completely out of the pumpage, running in a separate oil filled chamber and further protected by an exclusionary oil seal located between the bottom seal faces and the fluid being pumped. The oil chamber shall be fitted with a device that shall provide positive lubrication of the top mechanical seal, (down to one third of the standard oil level). The device shall not consume any additional electrical power. Mechanical seals shall rated to preclude the incursion of water up to 42.6 PSI. (98.4 Ft.) submergence. Units shall be have silicon carbide upper and lower mechanical seal faces. Mechanical seal hardware shall be stainless steel.

4. MOTOR-

5. POWER CABLE AND CABLE ENTRANCE -

The pump power cable shall be suitable for submersible pump applications and shall be field replaceable utilizing standard submersible pump cable. The cable entrance shall incorporate built in strain relief and a combination three way mechanical compression sealing with a fatigue reducing boot (up to 30 Hp). The cable entrance assembly shall contain a anti-wicking block to eliminate water incursion into the motor due to capillary wicking