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/KRS-200/KRS822L -SK))

APPLICATIONS 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 °F. (40 °C.)

Cast Iron Ductile Cast Iron , High Chrome Cast Iron (KRS2-80/-100/-150/KRS-200/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)

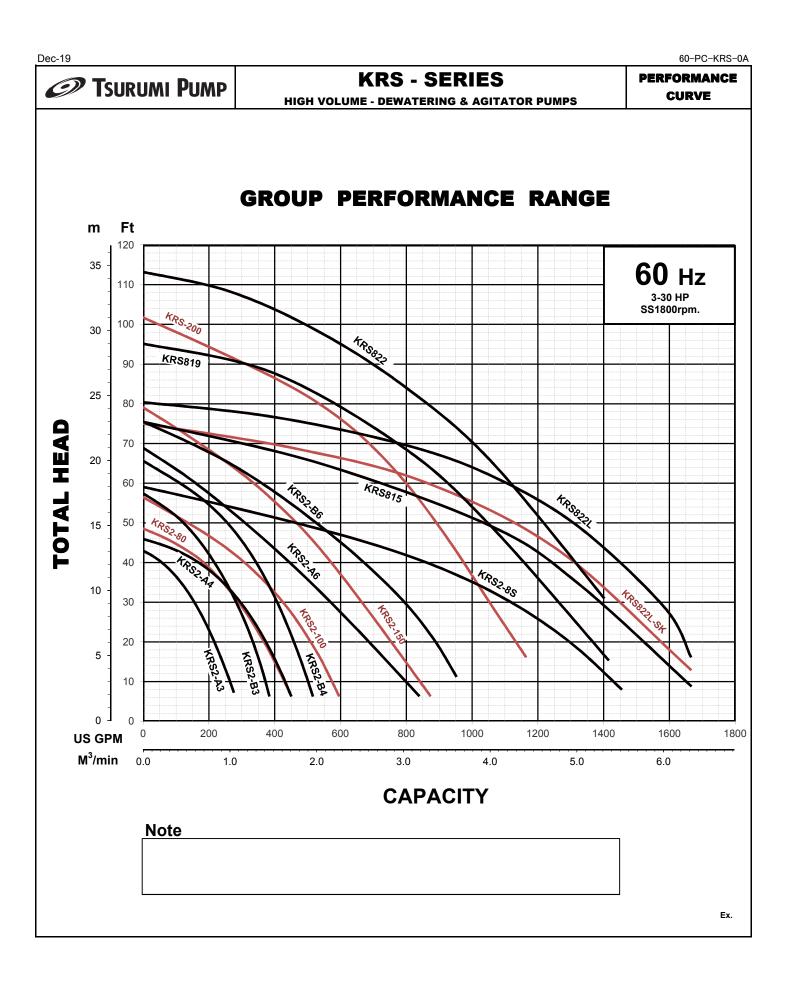
Prelubricated, Double Shielded

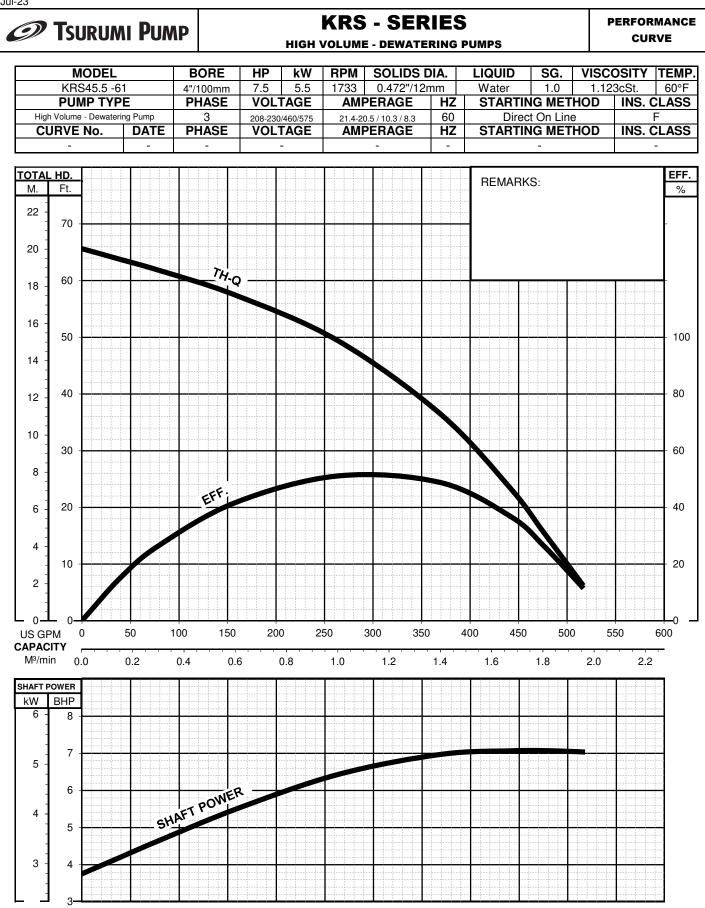
Air Filled, 1800 RPM, 60 Hz. 208/230/460/575 V., 3 Phase Class E, F, B

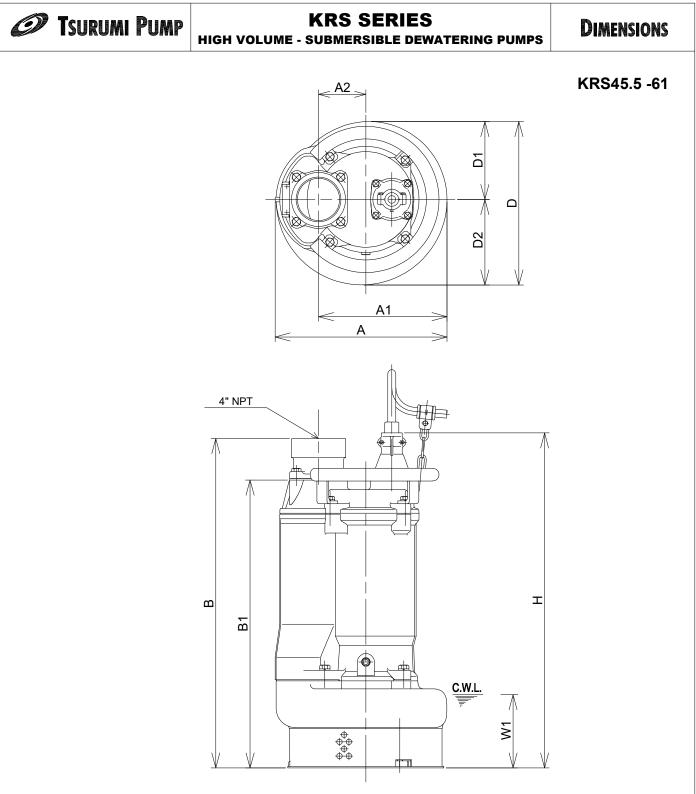
Submersible Power Cable 50' (15.0 m)

Manual





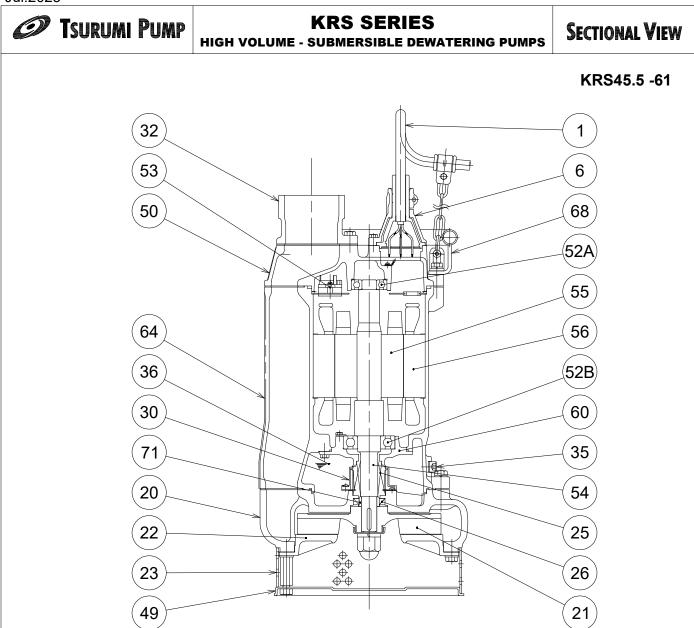




C.W.L. :Continuous running Water Level

DIMENSIONS:USCS (Inch)													
Model	HP	NOM.	Pump & Motor									C.W.L.	*Wt.
		SIZE	Α	A1	A2	В	B1	D	D1	D2	н	W1	(lbs.)
KRS45.5-61	7.5	4"	13 13/16	10 3/16	3 15/16	27 7/16	24	12 11/16	6 1/8	65/8	27 15/16	6 1/8	214
DIMENSIONS:METRIC (mm) *Excluding Cable													
Model	kW	NOM.	Pump & Motor								C.W.L.	*Wt.	
		SIZE	Α	A1	A2	В	B1	D	D1	D2	н	W1	(kg)
KRS45.5-61	5.5	100	351	259	100	697	609	323	155	168	709	155	97

Jul.2023



ITEM#	DESCRIPTION	MAIN MATERIAL / NOTE	ASTM, AISI CODE	RELATED DIN CODE	Q'TY
1	Power Cable	Chloroprene Sheath AWG12/4-50ft			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-30			1
26	Oil Seal	NBR/TC-355511			1
30	Oil Lifter	PBT Plastic W/(GF+MD)40			1
32	Hose Coupling	Cast Iron / NPT 4"	A48M Class30B	EN 1561 GJL-200	1
35	Oil Plug	Stainless Steel	S 30400	1.4301	1
36	Lubricant	Turbine Oil ISO VG32 or SAE 10W-20			
49	Bottom Plate	Steel (Cold Rolled)	A109/A1008	EN 10130	1
50	Motor Bracket	Cast Iron	A48M Class30B	EN 1561 GJL-200	1
52A	Upper Bearing	#6305ZZC3			1
52B	Lower Bearing	#6308ZZC3			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 (Cold Rolled) + Steel Pipe	A109/A1008 + A53 Type F	EN 10130 + DIN 1615 St33	1
71	Shaft Sleeve	Stainless Steel	S 40300	1.4000	1



KRS - SERIES HIGH VOLUME - DEWATERING PUMPS

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

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 30B. Motor frame shall be gray cast iron. Field adjustable/replaceable wear plate shall be gray cast iron, ASTM A48 CLASS 30B 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. 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 should the power cable be accidentally damaged.