



**TSURUMI PUMP**

**KTZ** 3-phase  
50Hz

Heavy duty dewatering pump  
- for professional use

Generally applicable high grade pump that can be used efficiently in draining in civil engineering. Maximum water depth 25m. Incorporating on the job requirements in the initial product design, Tsurumi has built a powerful new series of pumps to match the demands of tough drainage jobs.



## Top Discharge



Pumped water cools the motor and discharges as illustrated. The motor can be cooled even when pumping a small amount of water. The top discharge arrangement allows access into areas with space limitations.



## Rugged

By offering a cast iron pump body, our durability is increased over standard aluminium body pumps. With each motor size there is a choice between high head and high volume performance ranges.

## Efficient motor cooling

Slim line design with a top discharge offers economy of space. There is efficient motor cooling through a side flow channel.

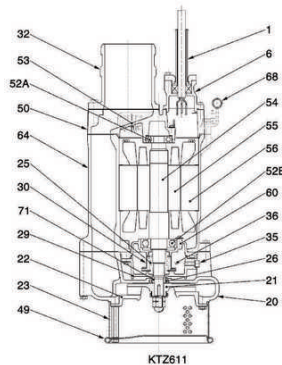


## Increased water-pressure resistance

An newly developed mechanical seal endures water pressure of up to 2,5 kgf/cm<sup>2</sup>. This makes the pumps usable at greater depth, such as in deep wells, to say nothing of use at general construction sites.

## Components:

001 Cable	036 Lubricant
006 Cable entrance	050 Motor cover
020 Pump casing	052A Upper bearing
021 Impeller	052B Lower bearing
022 Suction plate	053 Motor protector
023 Strainer	054 Shaft
025 Mechanical seal	055 Rotor
026 Oil sealing	056 Stator
030 Oil lifter	060 Bearing housing
032 Hose coupling	064 Motor casing
035 Oil plug	068 Handle



## Cast Iron used:

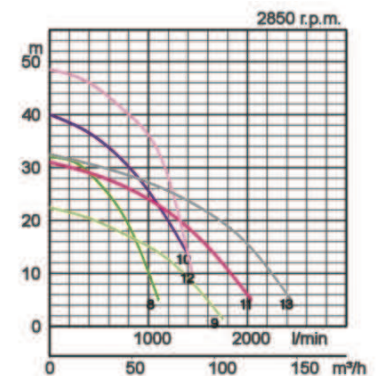
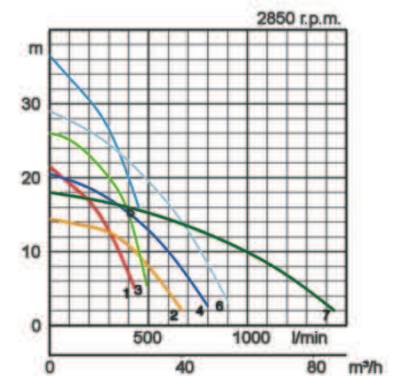
	Brinell hardness:
Chromium iron casting	415 - 425
Grey iron casting EN-GJL-200	150 - 230
Ductile iron casting EN-GJS-500-7	150 - 220

## Specifications:

Model	Colour code	Bore mm	Motor output kW	Rated current A	Head max. m	Capacity max. l/min	Dry weight kg w/o cable	Max. solid handling ø mm	Max. water depth m	Cable length m
KTZ21.5	1	50	1,5	3,5	21,5	430	30,0	8,5	25	20
KTZ31.5	2	80	1,5	3,5	14,4	670	30,0	8,5	25	20
KTZ22.2	3	50	2,2	5,0	26,0	500	34,0	8,5	25	20
KTZ32.2	4	80	2,2	5,0	20,5	800	34,0	8,5	25	20
KTZ23.7	5	50	3,7	7,7	36,5	450	63,0	8,5	25	20
KTZ33.7	6	80	3,7	7,7	29,0	900	63,0	8,5	25	20
KTZ43.7	7	100	3,7	7,7	18,0	1440	63,0	8,5	25	20
KTZ35.5	8	80	5,5	11,4	32,0	1100	82,0	10	25	20
KTZ45.5	9	100	5,5	11,4	22,5	1750	82,0	10	25	20
KTZ47.5	10	100	7,5	15,0	40,0	1400	105,0	12	25	20
KTZ67.5	11	150	7,5	15,0	31,0	2040	107,0	20	25	20
KTZ411	12	100	11,0	22,0	48,5	1440	133,0	12	25	20
KTZ611	13	150	11,0	22,0	32,5	2440	136,0	20	25	20

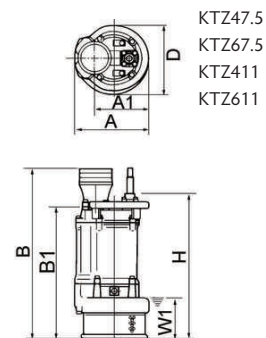
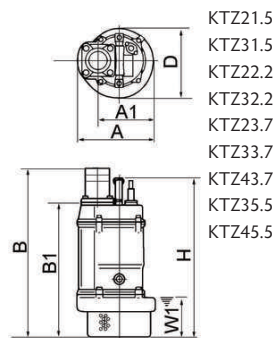


ø Discharge bore mm		50, 80, 100, 150	
Pumping Fluid	Temperature	0-40°C	
	Type of Fluid	Spring water, Rain water, Ground water, Sand carrying water	
Pump	Components	Impeller	Semi-open type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		Casing	Grey iron casting EN-GJL-200
		Suction Plate	Ductile iron casting EN-GJS-500-7
	Shaft Seal	Silicon carbide in oil bath	
Motor	Type, Poles	Induction motor, 2 poles, IP68	
	Lubrication	Turbine oil (ISO VG32)	
	Motor Protector (built-in)	Circle thermal cut-out	
	Insulation	Insulation class F	
	Phase / Voltage	3-phase / 400V / 50Hz / d.o.l.	
	Material	Casing	Grey iron casting EN-GJL-200
		Shaft	Stainless steel EN-X30Cr13
Cable		Rubber, H07RN-F	
Discharge Connection	Threaded flange/Hose coupling		



## Dimensions in mm:

Model	A	A1	B	B1	D	H	W1
KTZ21.5	235	173	509	401	216	478	120
KTZ31.5	235	173	509	401	216	478	120
KTZ22.2	235	173	529	421	216	498	120
KTZ32.2	235	173	529	421	216	498	120
KTZ23.7	283	208	627	504	252	637	150
KTZ33.7	283	208	627	504	252	637	150
KTZ43.7	283	208	642	504	252	637	150
KTZ35.5	306	218	671	548	259	688	150
KTZ45.5	306	218	686	548	259	688	150
KTZ47.5	330	240	764	626	314	687	190
KTZ67.5	330	240	799	626	314	687	190
KTZ411	373	260	806	645	350	740	190
KTZ611	373	260	826	645	350	740	190



W1: continuous running water level

In the event of abrasive and corrosive utilization, stronger wear and tear will take place naturally in certain components. In this regard, please pay attention to our website [www.tsurumi.eu/english/applications.htm](http://www.tsurumi.eu/english/applications.htm).

