



TSURUMI PUMP

KTZE 3-phase
50Hz

Heavy duty dewatering pump - equipped with
electrode auto control system
- 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.



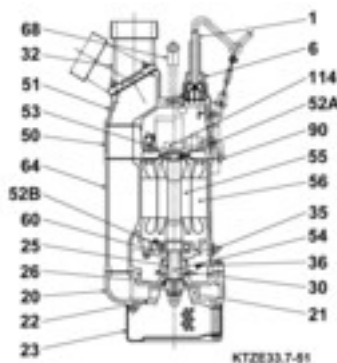
Electrode auto control system

The KTZE-type is equipped with a new eletrode type control system. This prevents unnecessary dry operation, which makes it ideal for work environments where noise must be prevented, for example, in night operation in residential areas. Pump operating is started when the water level rises and contacts the electrode. When the water-electrode contact is lost the timer starts operating and after one minute pump operation is stopped

Components:

001 Cable
006 Cable entrance
020 Pump casing
021 Impeller
022 Suction plate
023 Strainer
025 Mechanical seal
026 Oil sealing
030 Oil lifter
032. Outlet
035 Oil plug
036 Lubricant
050 Motor cover

051 Head cover
052A Upper bearing
052B Lower bearing
053 Motor protector
054 Shaft
055 Rotor
056 Stator
060 Bearing housing
064 Motor casing
068 Handle
090. Electrode
114 Relay

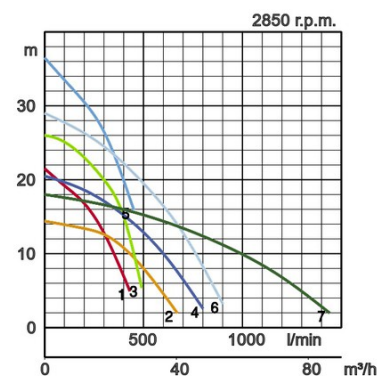


Specifications:

Model	Colour code curve	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
KTZE21.5	1	50	1,5	3,5	21,5	430	40,0	8,5	25	20
KTZE31.5	2	80	1,5	3,5	14,4	670	39,0	8,5	25	20
KTZE22.2	3	50	2,2	5,0	26,0	500	42,0	8,5	25	20
KTZE32.2	4	80	2,2	5,0	20,4	800	41,0	8,5	25	20
KTZE23.7	5	50	3,7	7,7	36,5	450	71,0	8,5	25	20
KTZE33.7	6	80	3,7	7,7	29,0	900	71,0	8,5	25	20
KTZE43.7	7	100	3,7	7,7	18,0	1440	71,0	8,5	25	20

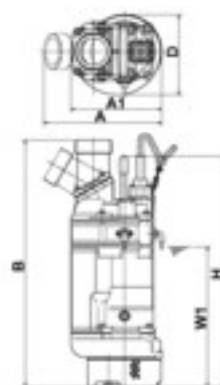


ø Discharge bore mm			50, 80, 100
Pumping Fluid	Temperature		0-40°C
	Type of Fluid		Spring water, Rain water, Ground water, Sand carrying water
Pump	Compo- nents	Impeller	Semi-open type impeller
		Shaft Seal	Double mechanical seal
		Bearings	Shielded ball bearings
	Material	Impeller	Chromium iron casting
		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	
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, NSSHÖU
Discharge Connection			Threaded flange/Hose coupling



Dimensions in mm:

Model	A	A1	B	D	H	W1
KTZE21.5	261	235	609	216	728	345
KTZE31.5	268	235	609	216	728	345
KTZE22.2	261	235	629	216	748	355
KTZE32.2	268	235	629	216	748	355
KTZE23.7	338	283	747	252	717	435
KTZE33.7	353	283	757	252	717	435
KTZE43.7	368	283	767	252	717	435



W1: lowest 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.



Contributing to World-wide Prosperity and
Understanding through Worker- and
Environment-friendly Production.

Designed for increased productivity through fully integrated streamlined production systems, Tsurumi's factory in Kyoto (Japan) features a production capacity of a full 1 million pumps per year. Large-scale modern R&D facilities offer optimum conditions for experimenting and testing of even super-large pumps and for developing new products to expand the possibilities and applications of pumps. To provide optimum conditions for our main asset, our workers, as well as for the environment, special emphasis is placed on optimized working conditions with airconditioning, minimized dust and exhaust gas emission, comprehensive recycling and waste recovery.

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We reserve the right to change specifications and designs herein for improvement without prior notice. Our pumps are for professional use only. In the event that Tsurumi (Europe) GmbH have, in exceptional cases taken over, a manufacturer's warranty, this entitles the enduser to assert remedy free of charge against Tsurumi (Europe) GmbH due to any defect to the product occurring during the guarantee period (see below), also then when the warranty claims against the seller do not or no longer exist. In the event of malfunction, which is attributable to the improper handling by the enduser, no guarantee claim shall arise. Further claims shall not result from the warranty, unless if something to the contrary has explicitly been determined. The decision as to whether remedy is effected by way of replacement or repair shall be at the choice of Tsurumi (Europe) GmbH. The claims shall be time barred after a period of three months after expiry of the guarantee period, however, not before expiry of the warranty period which is valid towards the seller. In the event of doubt, the warranty period shall correspond with the warranty period which is valid between the end-user and his seller.



con-KTZE-EN