SPECIFICATIONS	Model	KTD22.0	KTD-series
			2kW, 3-phase

Type of Pump
Submersible slurry pump for construction and foundation works, mining, and quarries, etc.

Type of Fluid
Water containing sand, mud, and slurry

Temperature: 0 to 40°C
(High temperature model available on special request)

Discharge Bore & Connection
50mm, Hose Coupling

Motor Output
2kW

Power Supply
Three-phase

Starting Method
Direct on Line

Motor
Continuous-duty rated, dry-type induction motor

Insulation Class: F
Degree of Protection: IP68

No. of Poles & Speed (Synchronous Speed)
2-pole, 3000/3600min^{-1} (50/60Hz)

Power Supply Voltages & Rated Currents

50Hz	60Hz
380V – 4.6A	220V – 8.4A
400V – 4.5A	380V – 4.9A
415V – 4.4A	440V – 4.1A

Power Cable
Sheath: PVC
Standard Length: 8m
200 to 600V supply:
1 x 4 x 1.25mm^2, O.D. 11.1mm

Dry Weight (excluding cable)
38kg

Impeller
Semi-open Impeller made of high-chromium cast iron

Solids Passage
50Hz – ϕ10mm
60Hz – ϕ10mm

Agitator
Ductile cast iron

Cable Entry with Anti-Wicking Block
Watertight cable entry with strain-relief device. The anti-wicking block prevents water incursion due to capillary action should the power cable be damaged or the end submerged.

Bearing
Permanently lubricated, deep-groove, double-shielded C3 ball bearings

Shaft
420 stainless steel

Shaft Seal (Mechanical Seal)
Furnished with a double-face mechanical seal located in oil chamber. Both upper and lower seal faces always run in a clean environment.

Upper Seal Face: SiC + SiC
Lower Seal Face: SiC + SiC

Oil Seal (Lip Seal)
Used as a "Dust Seal", it protects the mechanical seal from abrasive particles.

OIL LIFTER (Patented)
Equipped in oil chamber. It forcibly supplies lubricating oil to the mechanical seal and continues to supply the oil to the upper seal faces even if lubricant falls below the rated volume.

Type of Lubricating Oil & Volume
Turbine Oil (ISO VG32), 740ml

Motor Protection Device
A circle thermal protector built in the motor housing. Directly cuts the motor circuit if excessive heat builds up or an overcurrent condition occurs in the motor.

NO. A-20552-2

PUMP PERFORMANCE CURVES

TYPE	MODEL	FREQUENCY
Submersible Slurry Pump	KTD22.0 -51	50 Hz

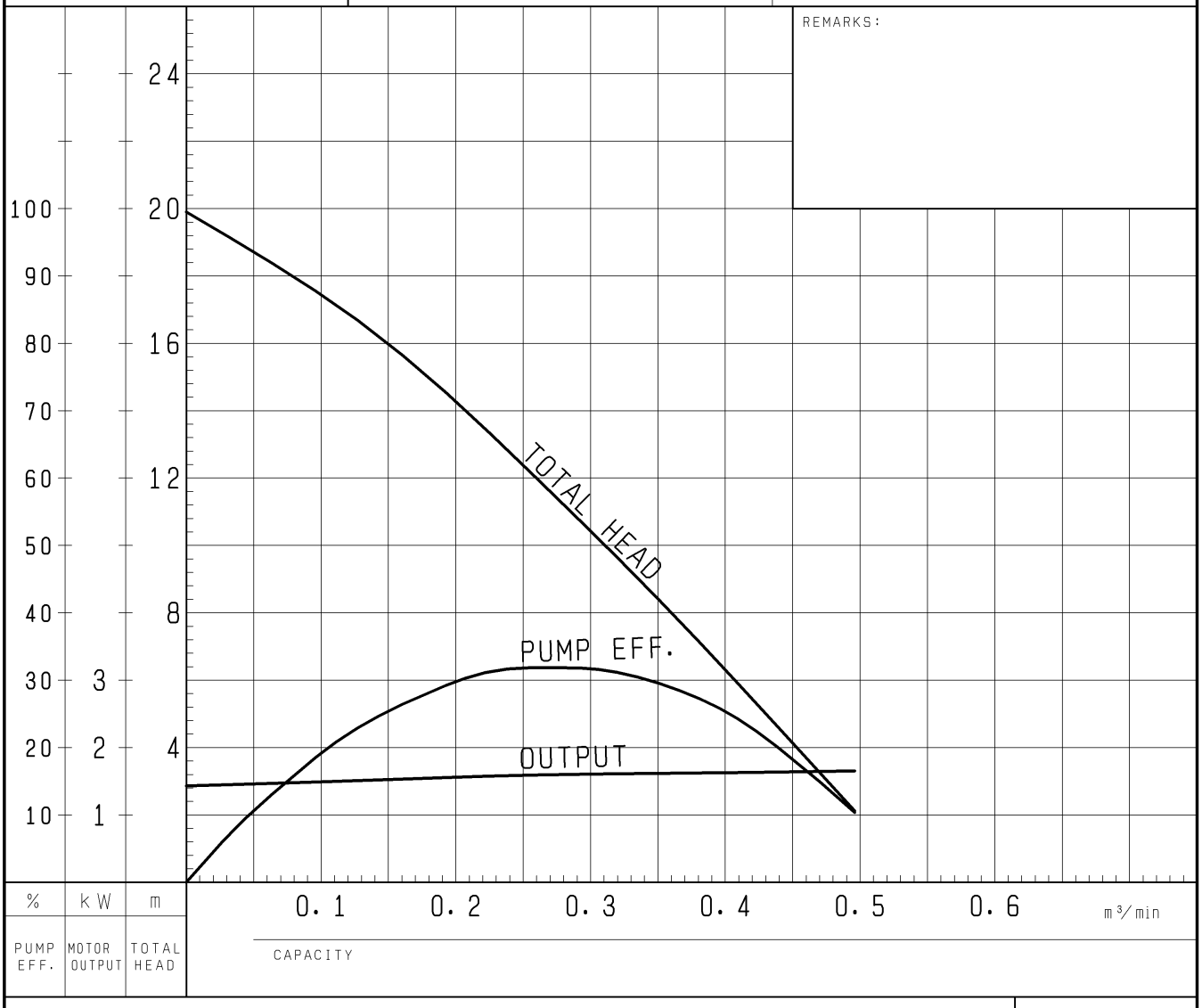
CUSTOMER'S NAME

EQUIPMENT TITLE

NO.

	STANDARD SPECIFICATIONS	REQUIRED SPECIFICATIONS
DISCHARGE BORE	50 mm	mm
TOTAL HEAD	12 m	m
CAPACITY	0.25 m³/min	m³/min
MOTOR OUTPUT	2 kW	kW
PHASE × VOLTAGE	3 φ × V	φ × V
CURRENT	A	A
POLES / REVOLUTION	2 P/ S.S. 3000 min⁻¹	P/ min⁻¹
STARTING METHOD	DIRECT ON LINE	
INSULATION CLASS	F	

REMARKS:



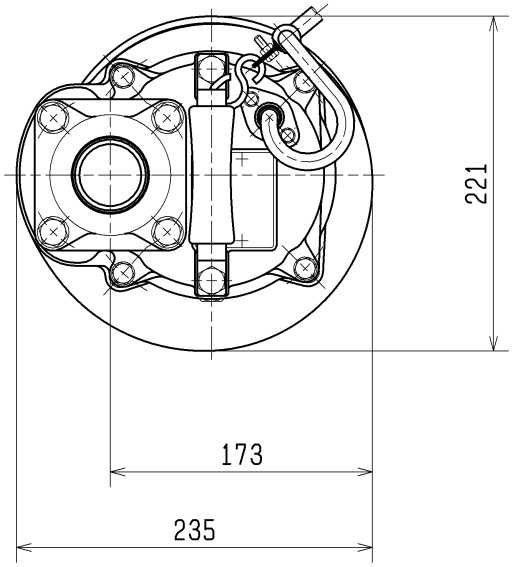
TSURUMI MFG. CO., LTD.

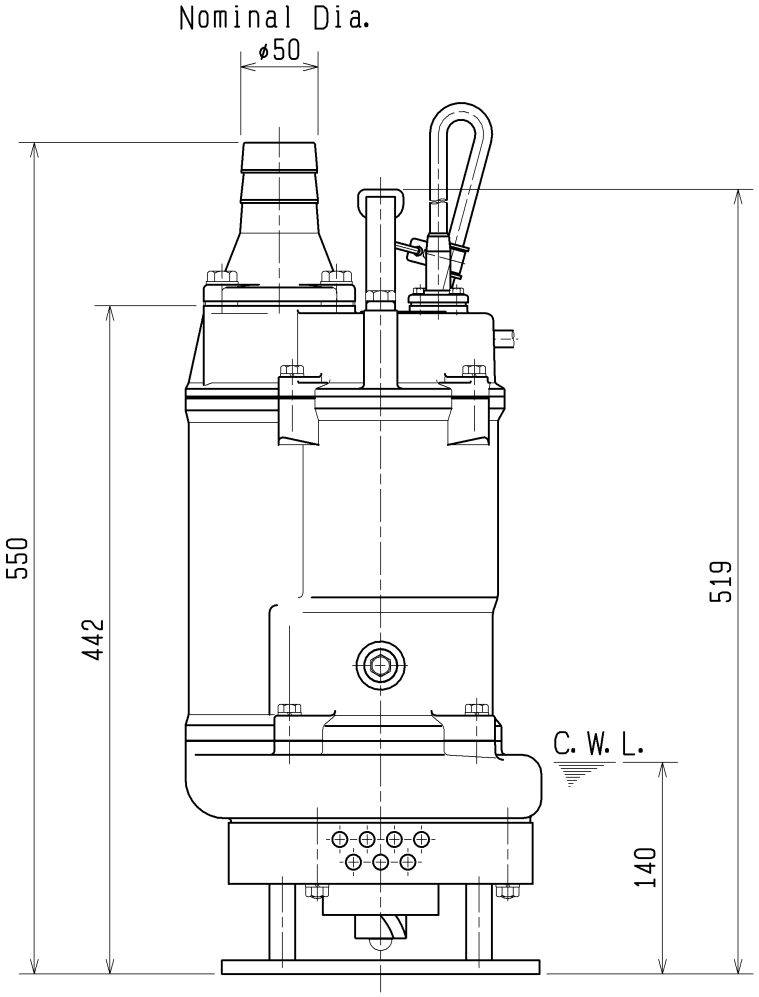
TSURUMI PUMP

DIMENSION DRAWING	No.		No.	A-20556-2
TYPE Submersible Slurry Pump		MODEL KTD22.0 -51/61		

Approximate Weight(※)
38kg

※excluding cable





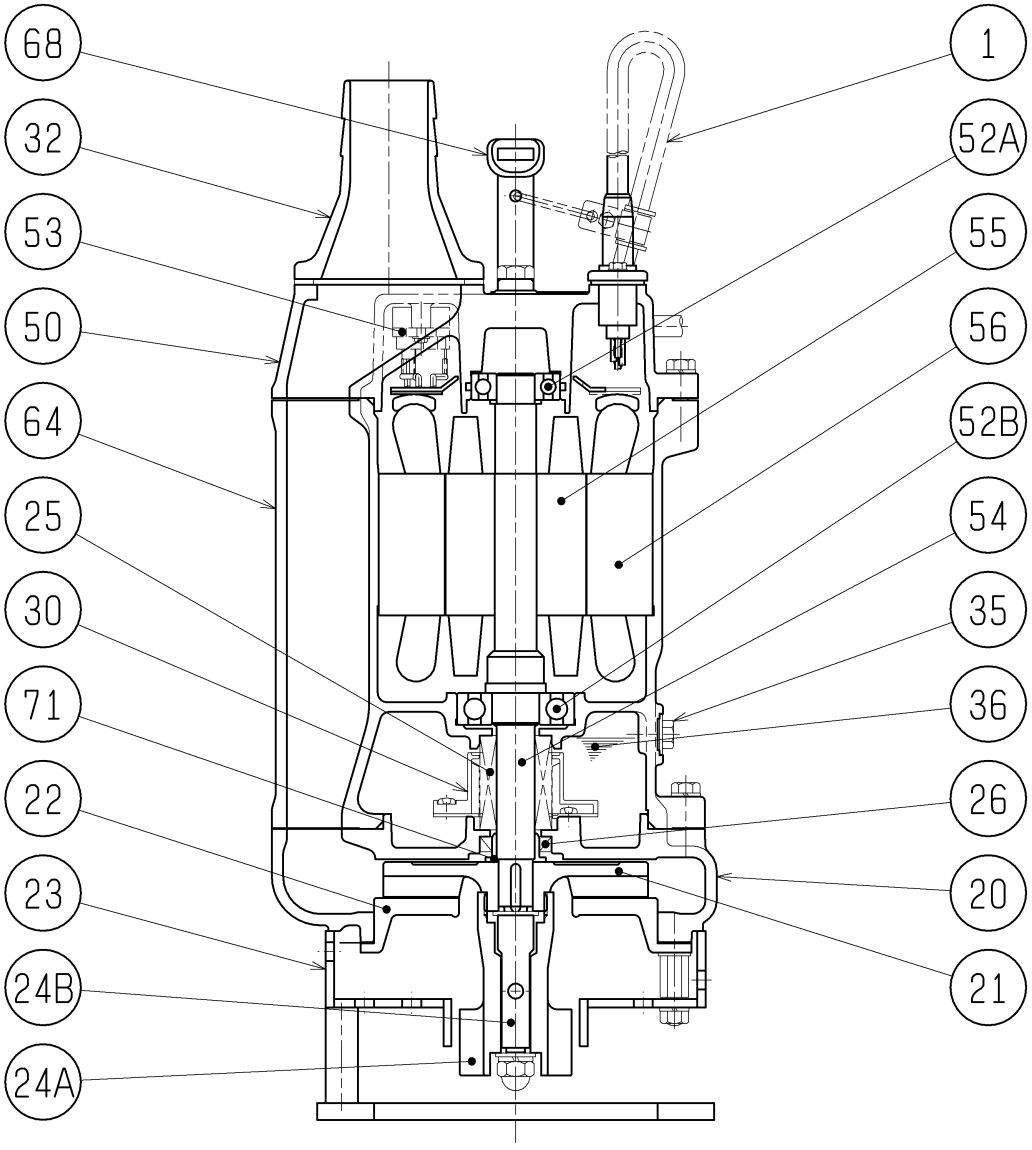
C.W.L.:Continuous runnning Water Level

TSURUMI MFG. CO.,LTD

unit:mm

TSURUMI PUMP

SECTIONAL DRAWING	No.		No.	A-20558-2
TYPE Submersible Slurry Pump		MODEL KTD22.0 -51/61		



REQ. SPECIFICATION

※ the wetted part

No.	DESCRIPTION	Q'TY	MATERIAL / NOTE	No.	DESCRIPTION	Q'TY	MATERIAL / NOTE
1	Cabtyre Cable	1	PVC Sheath	50	Motor Bracket	1	Gray Iron Casting
20	Pump Casing	1	Gray Iron Casting	52A	Upper Bearing	1	6204ZZC3
21	Impeller	1	Chromium Iron Casting	52B	Lower Bearing	1	6305ZZC3
22	Suction Cover	1	Ductile Iron Casting	53	Motor Protector	1	
23	Strainer Stand	1	Structure Steel & Carbon Steel Pipe	54	Shaft	1	Stainless Steel 420J2 (※)
24A	Agitator	1	Ductile Iron Casting	55	Rotor	1	
24B	Connecting Rod	1	Carbon Steel	56	Stator	1	
25	Mechanical Seal	1	H-20T	64	Motor Frame	1	Gray Iron Casting
26	Oil Seal	1	TC25388	68	Handle	1	Steel Sheet & Nitrile Butadiene Rubber
30	Oil Lifter	1	Plastic	71	Shaft Sleeve	1	Stainless Steel 304
32	Hose Coupling	1	Aluminium Die Casting				
35	Oil Plug	1	Stainless Steel 304				
36	Lubricant		Turbine Oil (ISO VG32)				

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