#### GSZBL-P1

## C TSURUMI PUMP

### **FEATURES**

- 1. Enclosed, high chrome cast iron or Stainless Steel impeller with field adjustable/replaceable wear plate provides for high wear resistance when the pumpage contains abrasive particles.
- Highly efficient, continuous duty air filled, copper wound motor with class F, E, insulation minimizes the cost of operation.
- 3. Built in thermal protection prevents motor failure due to overloading, accidental run-dry and single phasing in three phase units.
- 4. Double inside mechanical seals with silicon carbide faces, running in an oil filled chamber, further protected by a labyrinth seal,running against a

Replaceable,430 stainless steel shaft sleeve and seal pressure relief ports,-

### SPECIFICATIONS

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

Bearings

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

Accessories

**Operational Mode** 

## **GSZ-4/6-SERIES**

[4Pole]HIGH VOLUME - DEWATERING PUMP [6Pole]HIGH VOLUME - SAND PUMP & AGITATOR PUMP

Providing for the most durable seal design available.

- 5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours provide for extended operational life.
- 6. The agitator installed on the motor shaft extension forcibly agitates the fluid for easy and efficient Transmission of sludge and slime. (GSZ5-37-6SK)

### APPLICATIONS

- 1. Commercial, industrial wastewater and construction site drainage.
- 2. Sand & Gravel pit drainage.
- 3. Sediment removal from sumps or basins.

### **STANDARD**

6"~10" NPT (150mm ~ 250 mm) 30 HP.~ 100 HP. (22 kW ~ 75 kW) 528 ~ 4621 GPM (2.0 ~17.5 m<sup>3</sup>/min) 24.6 Ft. ~ 197.0 Ft. (7.5 m ~ 60.0 m) 104°F. (40°C.)

Cast Iron High Chrome Iron/Stainless Steel 420 Stainless Steel Cast Iron/Steel Jacket 304 Stainless Steel 4P-1800RPM Motor Model Silicon Carbide NBR (Nitrile Butadiene Rubber) Enclosed, Open, solids handling 0.394 ~ 1.97" (10 - 50mm)

Prelubricated, Double Shielded

Air Filled, 1200 & 1800 Rpm, 60 Hz. 460 or 575 V., 3 Phase Class F or E

Submersible Power Cable 50' (15 m)

Manual

# **SPECIFICATIONS**



OPTIONS

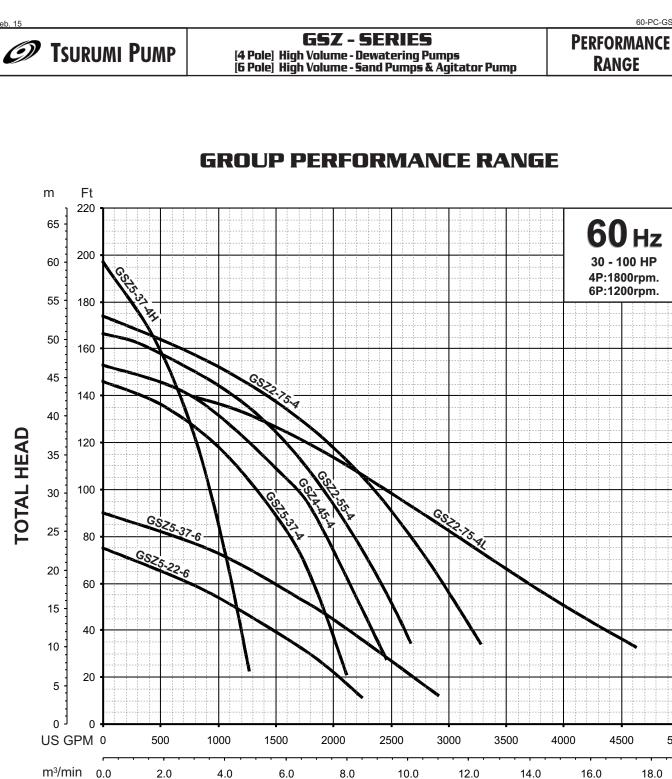
Length as Required.

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60-PC-GSZ-00

5000

18.0



CAPACITY

10.0

12.0

14.0

16.0

8.0

2.0

4.0

6.0

Feb. 15



# TSURUMI PUMP

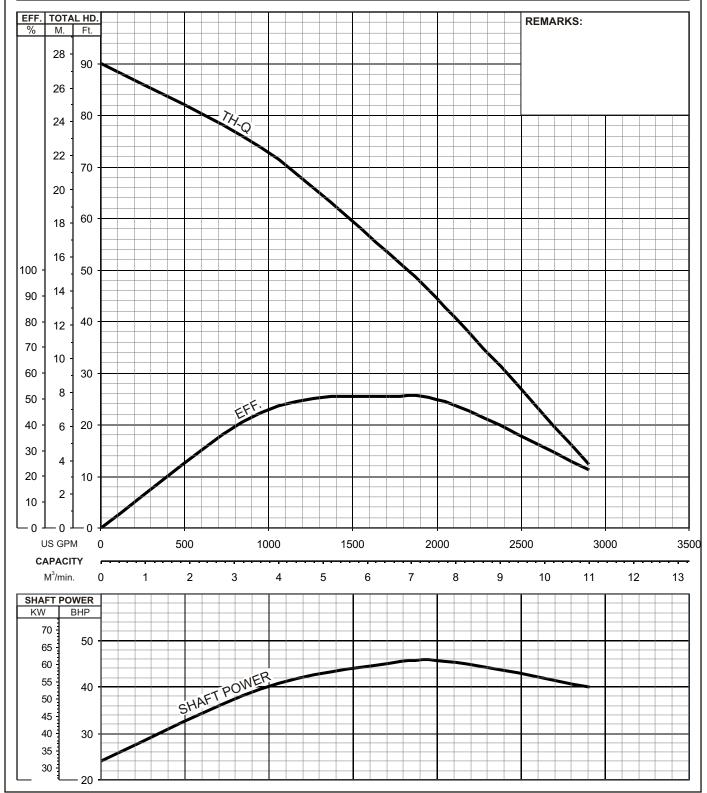
### GSZ-G SERIES HIGH VOLUME - SAND PUMPS

# PERFORMANCE

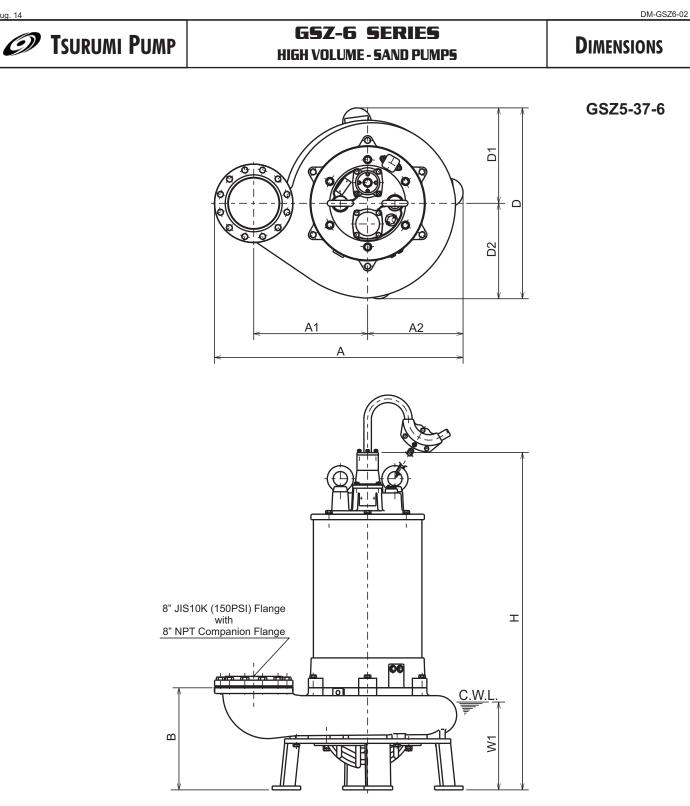
60-PC-GSZ6-02

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MODEL		BORE	HP	KW	RPM	SOLIDS DI	A	LIQUID	SG. VISC		OSITY	TEMP.		
GSZ5-37-6		8"/200mm	50	37	1160	1.97"/50mm Water		1.0	1.12	23 cSt	60ºF			
PUMP TYPE		PHASE	VOL	TAGE	AM	PERAGE	AGE HZ STARTING METHOD		STARTING METHOD			LASS		
High Volume - Sand	High Volume - Sand Pump		460/575 <u>64</u> / <u>52</u> 60 St		Star-De	Star-Delta		I	F					
CURVE No.	DATE	PHASE	VOL	TAGE	AM	PERAGE	HZ	STARTING METHOD		Z STARTING METHOD		D	INS. C	LASS
-	-	-		-		-		-		-				-





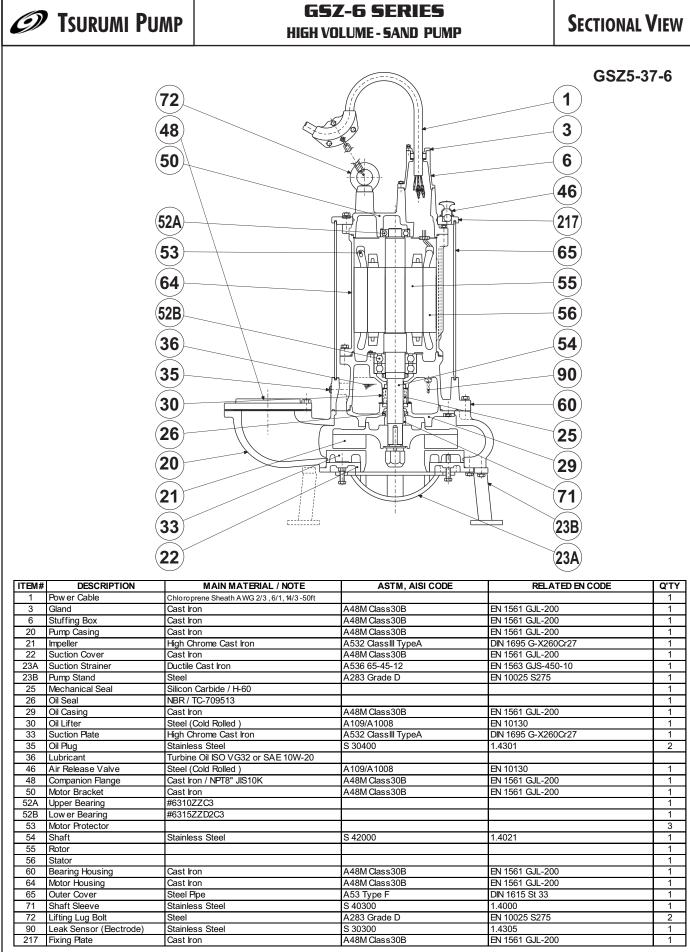


C.W.L. : Continuous running Water Level

	DIMENSIONS:USCS (Inch)													
	Model	HP	NOM.	Pump & Motor									C.W.L.	*Wt.
	Woder		SIZE	Α	A1	A2	В	B1	D	D1	D2	Н	W1	(lbs.)
	GSZ5-37-6	50	8"	41 1/4	18 7/8	15 13/16	16 15/16	16 15/16	31 5/8	15 13/16	15 13/16	55 15/16	14 5/8	1500
L														

DIM ENSIONS: METRIC (mm) *Excluding Cable													
Model	kW	NOM.				Pu	mp & Mo	tor				C.W.L.	*Wt.
Woder		SIZE	Α	A1	A2	В	B1	D	D1	D2	Н	W1	(kg)
GSZ5-37-6	37	200	1047	480	402	430	430	804	402	402	1421	370	680

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SEC-GSZ6-02



### **GSZ-6 SERIES** HIGH VOLUME - SAND PUMPS

## SAMPLE SPECIFICATIONS

### **1. SCOPE OF SUPPLY** -

Furnish and install TSURUMI Model \_\_\_\_\_\_ Submersible Pump(s). Each unit shall be capable of delivering \_\_\_\_\_GPM (\_\_\_\_\_m<sup>3</sup>/min) at \_\_\_\_\_Feet (\_\_\_\_\_m) TDH. The pump(s) shall be designed to pump waste water without damage during operation. The pump(s) shall be designed so that the shaft power required (BHP)/(kW) shall not exceed the motor rated output throughout the entire operating range of the pump performance curve.

### **2. MATERIALS OF CONSTRUCTION -**

Construction of major parts of the pumping unit(s) shall be gray cast iron, ASTMA48 CLASS 35. Impellers and field adjustable/replaceable wear plate shall be high chrome cast iron. Impellers shall be of the multi-vane semi-open design equipped with back pump out vanes and shall be 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 150 lb. (10 kg/cm<sup>2</sup>) flat face flange and NPT companion flange.

### **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 have silicon carbide versus silicon carbide upper and lower mechanical seal faces. Mechanical seal hardware shall be stainless steel. All unit(s) shall be fitted with a replaceable 403 stainless steel shaft sleeve.

### 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. 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.