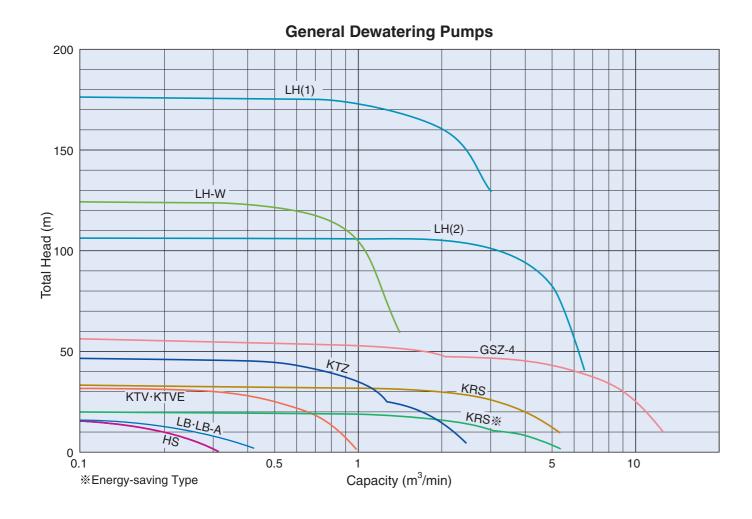


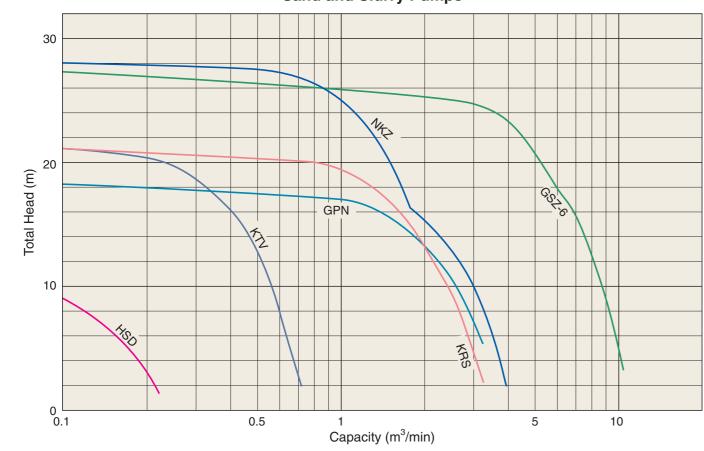
Construction Dewatering Pumps



Performance Range



Sand and Slurry Pumps



Specification Table

			Diochargo	Mot	tor	Dis	charge Des	sign			
(Category	Series	Discharge Bore	Output No. of		Top Dis	scharge	Side	Center Flange	Impeller	Automatic Operation
			mm	kŴ	Poles	Flow-Thru	Side Flow	Discharge	i lango		Oporation
	Small Size	LB·LB-A	50	0.48~1.5	2	0				Semi-vortex /Semi-open (LB-1500)	Electrode (LB-A)
		HS	50~80	0.4~0.75	2			0		Semi-vortex	
ing	Medium Size	KTV•KTVE	50~80	0.75~5.5	2		0			Semi-vortex	Electrode (KTVE)
wate		KTZ	50~150	1.5~11	2		0			Semi-open	
General Dewatering	High Volume	KRS	80~250	2.2~22	4	(KRS1022)	(except KRS1022)		O (KRS1022)	Semi-open /Closed (KRS1022)	
Gen		KRS (Energy-saving Type)	100~200	3~9	4		0			Semi-open /Closed (KRS-63/85.5)	
	High Volume & High Head	GSZ-4	150~250	37~75	4			0		Closed	
	High Head	LH	100~200	15~110	2	0			0	Closed	
		HSD	50	0.55	2			0		Semi-vortex	
	Slurry	KTV	50~80	2~3	2		0			Semi-vortex	
		KRS	80~150	4~9	4		0			Semi-open	
		NKZ	80~150	2.2~11	4			0		Semi-open	
	Sand	GPN	80~100	5.5~11	4			0		Semi-open	
		GSZ-6	200	22~37	6			0		Semi-open	
I	Deepwell	LH-W	50~100	3.0~30	2	0			(5.5kW or above)	Closed /Semi-open (3.0kW)	
Res	sidual Water	LSC	25	0.48	2	0				Semi-vortex	
[Drainage	LSP	25	0.48	2	0				Semi-vortex	

Discharge Design

■Top Discharge

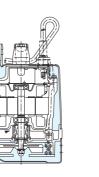
• Flow-Thru Design

<LB·LB-A·KRS1022·LH·LH-W· LSC·LSP>

This structure is such that before sucked in water is discharged, it flows between the outer cover and the motor to forcibly cool the motor. This system can also be applied to continuous operation exposed to the air.

• Side Flow Design <KTV • KTVE • KTZ • KRS (except KRS1022)>

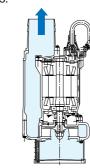
This side flow mechanism is efficiently designed to feed sucked in water along the channel provided on one side of the motor, and discharge the water while forcibly cooling the motor. This pump discharges from the top so that it can be installed in confined locations.

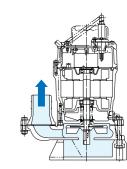


- ■Side Discharge
- Spiral Design

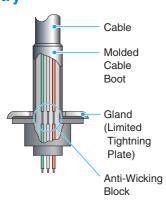
<HS · GSZ-4 · HSD · NKZ · GPN ·
GSZ-6>

Spiral casing type pumps have large channels to efficiently process sand and silt laden water. Use of a high-performance motor allows continuous operation exposed to the air.





An anti-wicking block is provided at the cable entry section of the motor chamber. Even if the cable jacket becomes damaged or the tip of the cable is accidentally immersed in water, this device prevents water from traveling into the motor chamber through capillary action.



Dual Inside Mechanical Seal

A dual inside mechanical seal, located in the oil chamber together with the Oil Lifter, has two sealing faces made of quality materials, including silicon carbide (SiC). The advantages of this seal are two-fold; it eliminates spring failure caused by corrosion, abrasion

or fouling, which can prevent the seal faces from closing properly, and prevents loss of cooling to the bottom seal faces during run-dry conditions, which causes the bottom seal to fail.



Automatic Motor Protection Device

A built-in thermal motor protection device reacts to the heat caused by overcurrent or run-dry conditions. It not only cuts off the motor circuit automatically but also resets by itself. When the motor cools down to a safe operating temperature, the motor restarts.



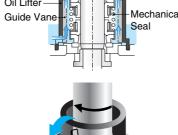


Miniature Thermal Protector

Circle Thermal Protector

Oil Lifter (Patent Pending)

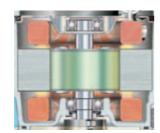
The Oil Lifter was developed as a lubricating device for the mechanical seal. Utilizing the centrifugal force of the shaft seal, the Oil Lifter forcibly supplies lubricating oil to the upper seal faces even if the lubricant falls below the specified volume. This amazingly simple device reliably lubricates and cools but also stabilizes the effect of the shaft seal and extends the length of the inspection period.





Bearings

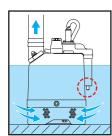
High-grade bearings for high-temperature operation are used. Also, as deep-groove, double-shield ball bearings are used, and as the bearings are permanently lubricated by grease, there is no need for injection of lubricating oil.



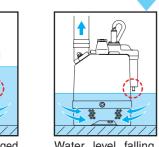
High-Performance Motor

A motor having stable high performance that meets Tsurumi's high standards of quality is used.

Automatic Operation <LB-A·KTVE>

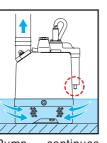


Electrode submerged in water. Pump starts operation.



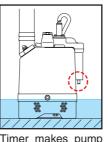
Water level falling. Electrode emerged from water and timer starts.



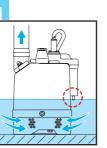


Pump continues operation for 1 min.

3



Timer makes pump to stop operation.



Water level reaches electrode. restarts.

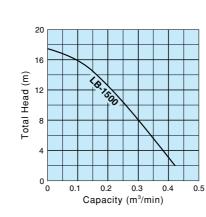
Submersible Pumps General Dewatering

Single-phase Portable General Dewatering Pumps



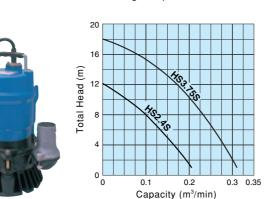
Model	Discharge Bore	Motor Output kW	Dry Weight	Dimensions mm	
Model	mm		kgs	D	Н
LB-480	50	0.48	10.4	187	286
LB-800	50(80)	0.75	13.2	187	337
Automatic					
LB-480A	50	0.48	11.0	223	286
LB-800A	50(80)	0.75	13.8	223	337

LB-1500



Model	Discharge Bore	Motor Output	Dry Weight	Dimensi	ions mm
iviodei	mm	kW	kgs	D	Н
LB-1500	50(80)	1.5	33	187	600

Single-phase Portable General Dewatering Pumps



Model	Discharge Bore	Motor Output	Dry Weight	Dimensions mm	
Model	mm	kW	kgs	D	Н
HS2.4S	50	0.4	11.3	241	328
HS3.75S	80(50)	0.75	17.5	285	388

^{*}Note that smaller discharge may increase friction loss.

Indicated weight is the dry weight of the pump itself excluding cables. Approximate dimensions are given for indicated dimensions as shown in the figure.

Single-phase

Features

A typical model easy-to-use high-tech model that is durable, compact and light

Applications

· Draining sand-carrying water in construction and civil engineering works



Features

Designed for operating 8inch casing, while providing maximum durability and performance

Applications

- · Well-dewatering
- · Draining and carrying water in construction and civil engineering works
- *Three-phase model available upon request

Features

Performance of the highly reliable pump is not impaired even if worn.

Applications

• Draining sand-carrying water in construction and civil engineering works



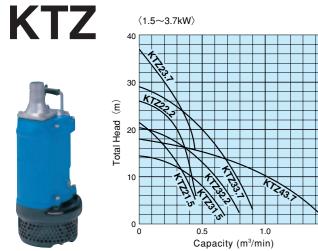
KTV·KTVE

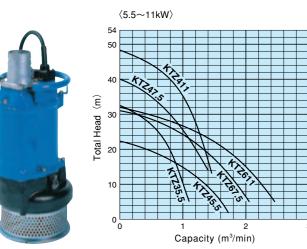


KTVE : Automatic pump with electrode

Mo	Model		Discharge Motor		eight kgs	Dimensions mm		
Manual	Automatic	Bore mm	Output kW	Manual	Automatic	D	Manual	Automatic
KTV2-8	KTVE2.75	50	0.75	11.5	12.7	200	355	401
KTV2-15	KTVE21.5	50(80)	1.5	21.0	22.0	240	392	462
KTV2-22	KTVE22.2	50(80)	2.2	23.0	25.0	240	412	462
KTV2-37H		50	3.7	36.0		285	510	
KTV2-37	KTVE33.7	80(100)	3.7	36.0	40.0	285	510	585
KTV3-55	KTVE35.5	80(100)	5.5	47.0	52.0	300	545	620

Three-phase General Dewatering Pumps





■ Features

High-grade pump featuring excellent wear resistance, convenience and mobility

Applications

- · Draining sand-carrying water in construction and civil engineering works
- · Deepwell pre-dewatering





Features

Generally applicable high-grade pump that can be used efficiently in draining in general civil engineering through to deepwell applications

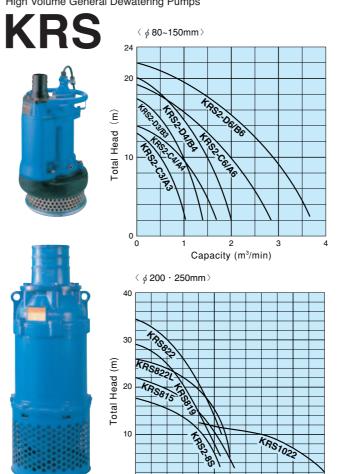
Applications

5

- · Draining sand-carrying water in construction and civil engineering works
- · Deepwell pre-dewatering

Model	Discharge Bore	Motor Output	Dry Weight	Dimensi	ons mm
iviouei	mm	kW	kgs	D	Н
KTZ21.5	50	1.5	30	235	509
KTZ22.2	50	2.2	34	235	529
KTZ23.7	50	3.7	63	283	627
KTZ31.5	80	1.5	30	235	509
KTZ32.2	80	2.2	34	235	529
KTZ33.7	80	3.7	63	283	627
KTZ35.5	80	5.5	82	306	671
KTZ43.7	100	3.7	63	283	642
KTZ45.5	100	5.5	82	306	686
KTZ47.5	100	7.5	105	330	764
KTZ411	100	11	133	373	806
KTZ67.5	150	7.5	107	330	799
KTZ611	150	11	136	373	826

High Volume General Dewatering Pumps



■ Features

4-pole motor used. Typical model of generally applicable pump with a wide range of variations

Applications

- · Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- Water intake from river or lakes
- · Draining storm water in a flood control facility

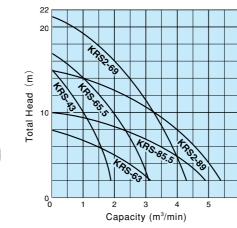
Model	Discharge Bore	Motor Output		Dimensions mm		
IVIOGEI	mm	kW	kgs	D	Н	
KRS2-C3/A3	80	2.2	72	340	619	
KRS2-D3/B3	80	3.7	91/89	362/349	704	
KRS2-C4/A4	100	3.7	88	349	719	
KRS2-D4/B4	100	5.5	98/95	362/349	709	
KRS2-C6/A6	150	7.5	130	415	767	
KRS2-D6/B6	150	11	158/150	434/415	813/812	
KRS2-8S	200	11	174	472	933	
KRS815	200	15	235	481	1069	
KRS819	200	18.5	385	572	1238	
KRS822	200	22	390	572	1238	
KRS822L	200	22	390	572	1238	
KRS1022	250	22	450	520	1439	



KRS(Energy-saving Type)



KRS1022



Capacity (m³/min)

Model	Discharge Bore	Motor Output	Dry Weight	Dimensions mm	
Model	mm	kW	kgs	D	Н
KRS-43	100	3	95	378	723
KRS-63	150	3	97	384	866
KRS-65.5	150	5.5	118	425	790
KRS2-69	150	9	155	490	812
KRS-85.5	200	5.5	126	446	941
KRS2-89	200	9	175	473	933

Features

Energy-saving and space-saving type exclusively for low heads

Applications

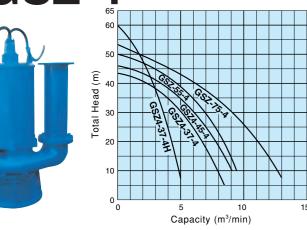
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- · Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- · Water intake from river or lakes
- · Draining storm water in a flood control facility



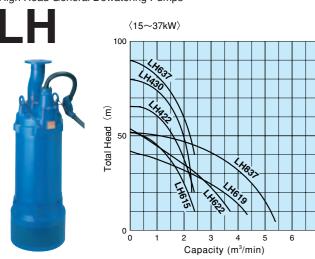
High Volume & High Head General Dewatering Pumps

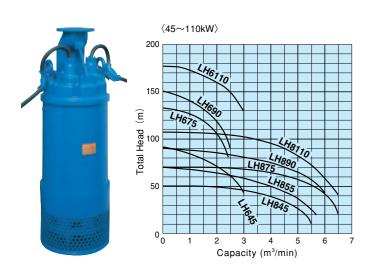
GSZ-4



Model	Discharge Bore	Motor Output	Dry Weight	Dimensions mm	
Wodel	mm	kW	kgs	D	Н
GSZ4-37-4H	150	37	730	900	1400
GSZ4-37-4	200	37	710	915	1403
GSZ4-45-4	200	45	620	915	1403
GSZ-55-4	250	55	1150	1050	1500
GSZ-75-4	250	75	1200	1050	1500

High Head General Dewatering Pumps





■ Features

Equipped with a 4-pole motor, the pumps in this series display their true virtues where a massive amount of water must be drained in a very short period of time.

Applications

- · Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- · Water intake from river or lakes
- · Draining storm water in a flood control facility



Features

High water pressure resistance makes it adaptable in deepwells.

Applications

- · Draining sand-carrying water in foundation and civil engineering works such as, river, dam, tunnel, subway, bridge, harbor, etc.
- Deepwell pre-dewatering
- · Draining or supplying water in quarries and mining

Model	Discharge Bore	Motor Output	Dry Weight	Dimensi	ons mm
Model	mm	kW '	kgs	D	Н
LH422	100	22	350	420	1352
LH430	100	30	355	420	1352
LH615	150	15	213	330	1014
LH619	150	19	350	420	1423
LH622	150	22	360	420	1423
LH637	150	37	495	530	1448
LH645	150	45	510	530	1448
LH675	150	75	850	550	1676
LH690	150	90	1100	592	1787
LH6110	150	110	1200	592	1787
LH837	200	37	495	530	1488
LH845	200	45	510	530	1488
LH855	200	55	810	550	1716
LH875	200	75	850	550	1716
LH890	200	90	1150	592	1787
LH8110	200	110	1250	592	1787

Single-phase Portable Slurry Pump



Model	Discharge Bore	Motor Output	Dry Weight	Dimensi	ons mm
iviodei	mm	kW .	kgs	D	Н
HSD2.55S	50	0.55	15	234	391

■ Features

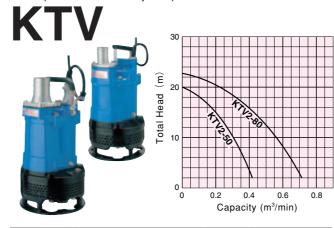
Single-phase, 550W pump equipped with agitator for transferring slurry

■ Applications

• Draining slurry mixed water in civil engineering works or foundation works



Three-phase Portable Slurry Pumps



Model	Discharge Bore	Motor Output	Dry Weight	Dimensi	ons mm
iviodei	mm	kW	kgs	D	Н
KTV2-50	50(80)	2	25	250	450
KTV2-80	80(100)	3	38	295	550

Features

Compact, lightweight type equipped with agitator for transferring slurry

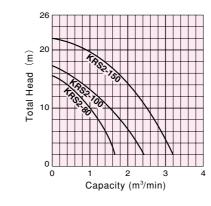
Applications

- Transferring or draining bentonite slurry used for slurry drilling
- · Draining slurry mixed water in civil engineering works or foundation works









Model	Discharge Bore	Motor Output	Dry Weight	Dimensions mr	
Model	mm	kW	kgs	D	Н
KRS2-80	80	4	105	350	786
KRS2-100	100	6	143	415	815
KRS2-150	150	9	170	434	879

Features

Typical model of slurry pump equipped with agitator for transferring slurry

Applications

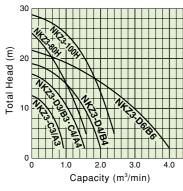
- Transferring or draining bentonite slurry used for slurry drilling
- Draining slurry mixed water in civil engineering works or foundation works



7 8

NKZ



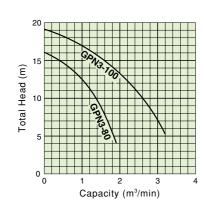


Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
			D	Н
80	2.2	91	467	664
80	3.7	100	467	709
80	5.5	132	491	754
100	3.7	97	467	709
100	5.5	115	485	715
100	11	196	547	841
150	11	192	620	798
	80 80 80 100 100	mm kW 80 2.2 80 3.7 80 5.5 100 3.7 100 5.5 100 11	mm kW kgs 80 2.2 91 80 3.7 100 80 5.5 132 100 3.7 97 100 5.5 115 100 11 196	80 2.2 91 467 80 3.7 100 467 80 5.5 132 491 100 3.7 97 467 100 5.5 115 485 100 11 196 547

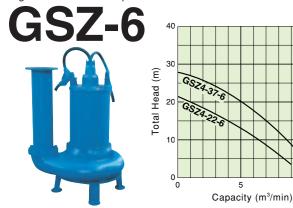
Sand

High Power Sand Pumps





Model	Discharge Bore	Motor Output	Dry Weight	Dimensions mm	
iviodei	mm	kW	kgs	D	Н
GPN3-80	80	5.5	145	487	777
GPN3-100	100	11	217	617	860



Model	Discharge Bore	Motor Output	Dry Weight	Dimensions mm	
Model	mm	kW	kgs	D	Н
GSZ4-22-6	200	22	750	965	1393
GSZ4-37-6	200	37	850	1047	1416

Features

All pumps in this series provide very smooth passage of sandy earth and slime. A forcibly cooled motor ensures long and continuous pump operation exposed to the air.

Applications

- · Draining sandy and muddy water in civil engineering works such as harbor construction and river-development construction works
- · As a drainage facility in batcher plants, ready-mixed concrete plants, ceramics factories, etc.



Features

A powerful sand pump with an agitator and a forced cooling motor. Special-steel wearing parts have increased the pump's life.

Applications

- · Draining sandy and muddy water in civil engineering works such as harbor construction and river-development construction works
- As a drainage facility in batcher plants, ready-mixed concrete plants, ceramics factories, etc.
- · Draining water containing iron scale in steel factories

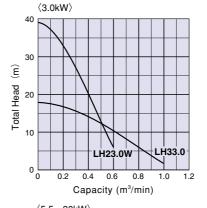
Features

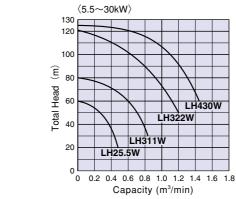
Equipped with a 6-pole, forced cooling motor. Specialsteel wearing parts have increased the pump's life.

Applications

- · Collecting sand or gravel or draining water containing gravel, sand, or iron scale
- · As a drainage facility in batcher plants, ready-mixed concrete plants, ceramics factories, etc.
- · Draining water containing iron scale in steel factories

Deepwell Pumps LH-W 3.0kW





■ Features

Higher head type of LH

Applications

- · Deepwell pre-dewatering
- · Extra high-head pumping applications



Model	Discharge Bore mm	Motor Output kW	Dry Weight kgs	Dimensions mm	
Model				D	Н
LH23.0W	50	3.0	46	185	630
LH25.5W	50	5.5	80	244	750
LH33.0	80	3.0	42	185	645
LH311W	80	11	130	270	1024
LH322W	80	22	304	330	1235
LH430W	100	30	324	365	1375

Note: LH33.0 is a single-stage pump.

Residual Water Drainage

Submersible Single-phase Portable Residue Dewatering Pump

Capacity (m3/min)

D H

316

10

196

Discharge Bore | Motor Output | Dry Weight | Dimensions mm

12

0.48

Single-phase Portable Self-priming Residue Dewatering Pump

Original residual dewatering pump capable of pumping water down to a minimum level of 1mm

Applications

■ Features

- Draining storm water on the ground sumps in construction and civil engineering works
- · Draining residual water at utility intercept sumps or water storage tanks
- Draining wash water in water storage tanks

Single-phase

Features

Novel mechanism design pump equipped with a reverse flow prevention device, capable of carrying by one hand



Applications

- Draining storm water on the ground sumps in construction and civil engineering works
- · Draining residual water at utility intercept sumps or water storage tanks
- · Draining wash water in water storage tanks

Model

LSC1.4S

LSP

Suction & Discharge | Motor Output | Dry Weight | Dimensions mm Model D H LSP1.4S 12.5 276

Transcending Language and Borders



OSAKA HEADQUARTERS

16-40, 4-chome, Tsurumi, Tsurumi-ku, Osaka 538-8585, Japan Phone 81-6-6911-7271 Fax 81-6-6911-0100 E-mail: intsales@tsurumipump.co.jp URL http://www.tsurumipump.co.jp/english



TSURUMI (AMERICA), INC. 1625 Fullerton Court, Glendale Heights,

TSURUMI (EUROPE) GMBH

E-mail: sales@tsurumi-europe.com

H&E TSURUMI PUMP CO., LTD.

E-mail: info@tsurumi.com.hk

GERMANY

HONG KONG

Phone 1-630-793-0127 Fax 1-630-793-0146 E-mail: info@tsurumiamerica.com

Heltorfer St. 14, D-40472 Dusseldorf, Germany Phone 49-211-4179373 Fax 49-211-4791429

Unit 2503-5, 25/F., Ocean Building, 80 Shanghai St., Kowloon, Hong Kong Phone 852-2730-7208 Fax 852-2730-6531

KYOTO PI ANT

1-1, Kaminaranagaike, Yawata-city, Kyoto 614-8163, Japan Phone 81-75-971-0831 Fax 81-75-971-1316



SINGAPORE

TSURUMI (SINGAPORE) PTE. LTD.

48 Toh Guan Road East, #01-138, Enterprise Hub, Singapore 608586 Phone 65-6760-8338 Fax 65-6760-1268 E-mail: sales@tsurumipump.com.sg

MALAYSIA

TSURUMI PUMP(MALAYSIA)SDN. BHD.

No.11, Jalan PJU 3/49, Sunway Damansara Technology Park, 47810 Petaling Jaya, Selangor Darul Ehsan, Malaysia Phone 60-3-7803-3373 Fax 60-3-7806-3748 E-mail: info@tsurumi.com.my

THAILAND

TSURUMI PUMP (THAILAND) CO., LTD.

493/3 Rama 3 Road, Bangkloe, Bangkorlam, Bangkok 10120, Thailand Phone 66-2-291-2340 Fax 66-2-291-2322 E-mail: sales@tsurumipump.co.th

YONAGO PLANT

2700, Yomi-cho, Yonago-city, Tottori 683-0851, Japan Phone 81-859-29-0811 Fax 81-859-24-0602



CHINA

TSURUMI (SHANGHAI) CO., LTD.
Rm. 1201, Building D. No.80 Caobao Road,
Xuhui, Shanghai 200235, China
Phone 86-21-6432-6010 Fax 86-21-6432-6013
E-mail: sh.sales@tsurumipump.com.cn

TAIWAN

TSURUMI PUMP TAIWAN CO., LTD. No.67, Fengtian St., Bade City, Tao-yuan, 334 Taiwan

Phone 886-3-368-9830 Fax 886-3-368-9832 E-mail: sales@tsurumipump.com.tw

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