TSURUMI PUMP

FEATURES

- 1. Semi-open, high chrome iron impeller with replaceable / adjustable high chrome Iron wear rings, increases wear resistance, when pumpage contains abrasive particles.
- 2. Double inside mechanical seals with silicon carbide faces, (both top and bottom) running in an oil filled chamber and further protected by a lip seal running against a replaceable, 430 stainless steel shaft sleeve, provides for the most durable seal design available.
- 3. Highly efficient, continuous duty air filled, copper wound motor with class B, F insulation minimizes the cost of operation.
- 4. Built in thermal & amperage sensing protector prevents motor failure due to

overloading or accidental run -dry conditions.

LH - SERIES

DEWATERING PUMP

- 5. Double shielded, permanently lubricated, high temperature C3 ball bearings rated for a B-10 life of 60,000 hours, extend operational life.
- 6. Top discharge, flow-thru design enables operation at low water levels for extended periods.

APPLICATIONS

- 1. Commercial, industrial wastewater and construction site drainage.
- 2. Effluent transfer.
- 3. Decorative waterfalls and fountains.
- 4. Raw water supply from rivers or lakes.



SPECIFICATIONS



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

STANDARD
3" ~ 8" NPT (80 mm ~ 200 mm)
4 ~ 150 HP. (3 ~ 110 Kw)
26.4 ~ 1717.0 GPM. (0.1 ~ 6.5 m ³ /min)
20.5 ~ 604.0 Ft. (6.25 ~ 184.1m)
104° F. (40° C.)

Cast Iron, Ductile C **High Chrome Cast** 420 Stainless Steel Cast Iron 304 Stainless Steel 50 - 150HP (37 - 11 Silicon Carbide NBR (Nitrile Butadie Semi-open, solids h 0.236 - 0.787" (6 - 2

Prelubricated, Doub

Air Filled, 3600 RPI 208/230/460/575 V Class B, F

Submersible Power 50 - 65' (15 - 20m)

Manual

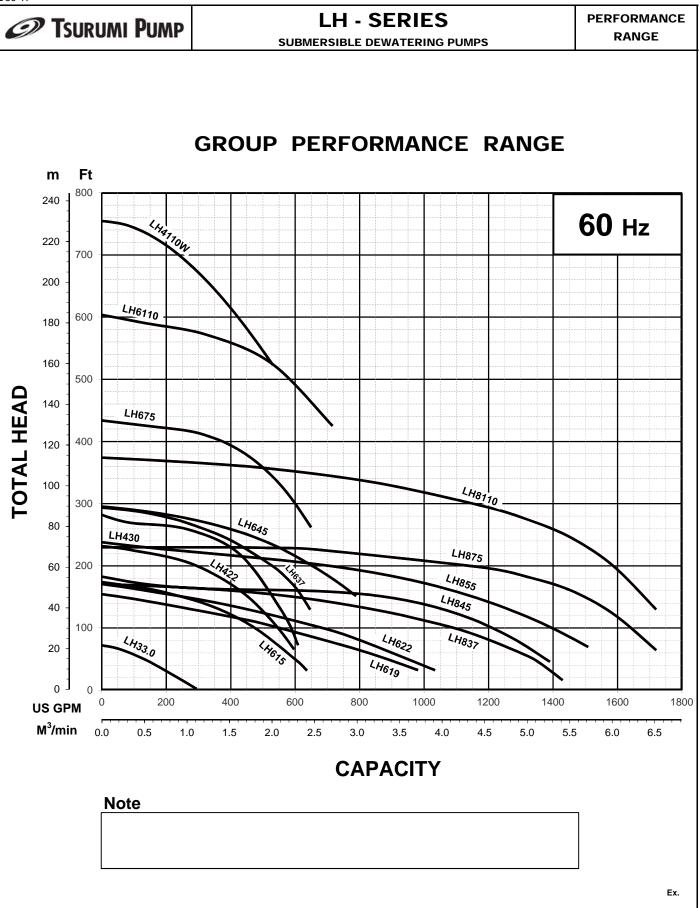


$\delta.25 \sim 184.1 \text{m}$	
Cast Iron Iron I	
l 10 kW)	
iene Rubber) handling. 20mm)	
ble Shielded	
M, 60 Hz. ⁄., 3 Phase.	
r Cable	Length as Required.

OPTIONS

TS-303 Float Switch





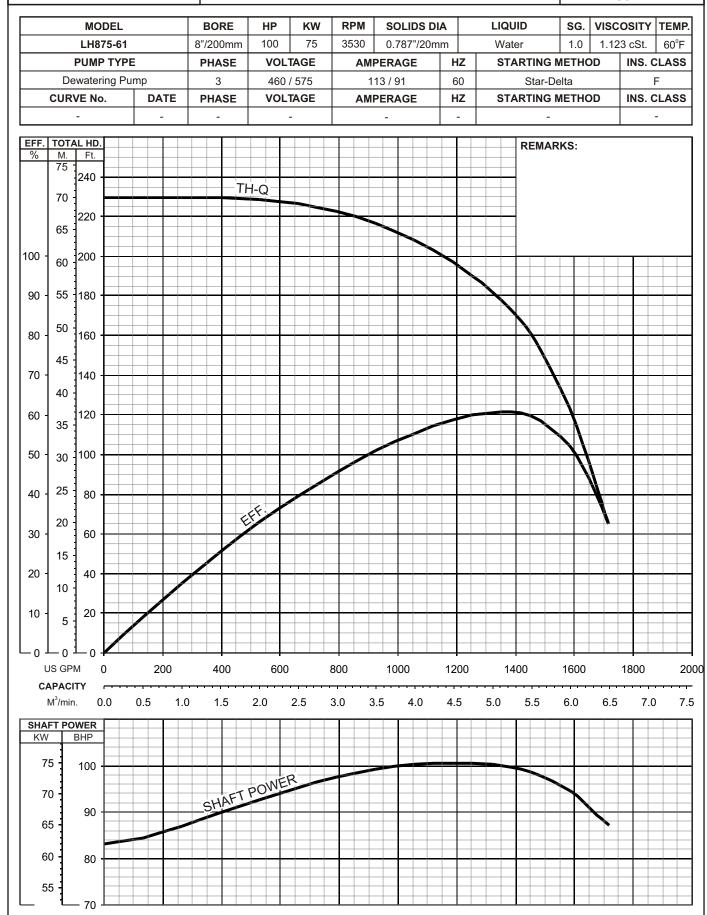
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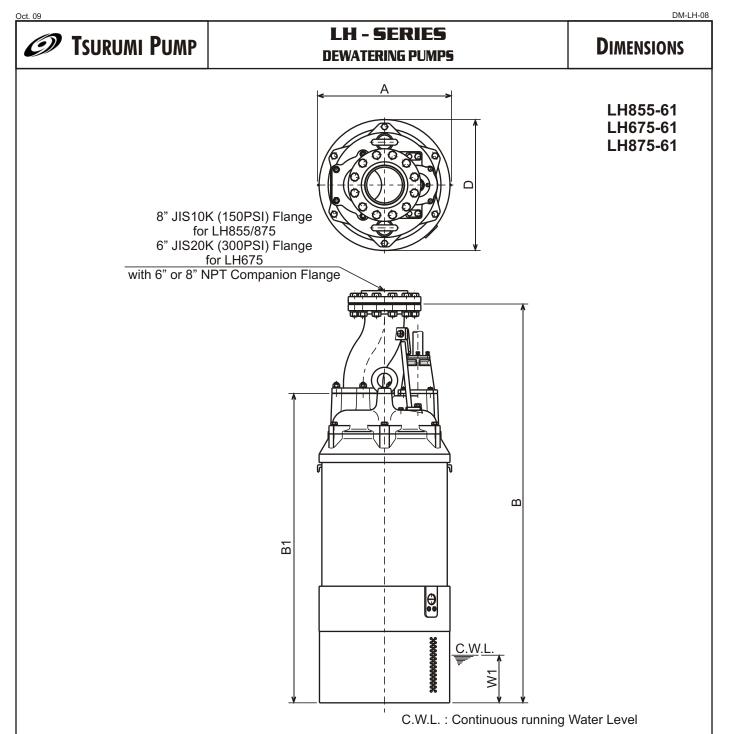
TSURUMI PUMP

LH - SERIES DEWATERING PUMPS

Performance Curve

60-PC-LH-17





DIMENSIONS:USCS (Inch)

Model	HP	NOM.		Pump 8	& Motor		C.W.L.	Wt.
		SIZE	Α	В	B1	D	W1	(lbs.)
LH855-61	75	8"	22 3/16	67 9/16	51 3/16	21 5/8	7 7/8	1810
LH675-61	100	6"	22 3/16	66	51 3/16	21 5/8	7 7/8	1910
LH875-61	100	8"	22 3/16	67 9/16	51 3/16	21 5/8	7 7/8	1910

DIMENSIONS:METRIC (mm)

kW	NOM.		Pump 8	& Motor		C.W.L.	Wt.
	SIZE	Α	В	B1	D	W1	(kg)
55	200	563	1716	1300	550	200	820
75	150	563	1676	1300	550	200	865
75	200	563	1716	1300	550	200	865
	55 75	SIZE 55 200 75 150	SIZE A 55 200 563 75 150 563	SIZE A B 55 200 563 1716 75 150 563 1676	SIZE A B B1 55 200 563 1716 1300 75 150 563 1676 1300	SIZE A B B1 D 55 200 563 1716 1300 550 75 150 563 1676 1300 550	SIZE A B B1 D W1 55 200 563 1716 1300 550 200 75 150 563 1676 1300 550 200

9	Tsurumi Pun		SERIES RING PUMPS	SECTIONAL	VIE
		37		-48 LH859 LH679 -1 LH879	5-61
		51		-(3) -(6)	
		53		52A	
		64		55 56	
		52B		26A	
		25 90		(54) (36)	
		30		35	
		29 71A		60 26C	
		20A			
		208		-26B	
		(34) (23)		(21) (43)	
ITEM#	DESCRIPTION Power Cable	MAIN MATERIAL / NOTE Chloroprene Sheath AWG 2/6, 4/1, 14/3 -50f	RELA TED AS TM, A ISI CODE	RELATED EN CODE	Q'
3	Gland	Cast Iron	A48M Class30B	EN1561 GJL-200	1
	Stuff ing Box Upper Pump Casing	Cast Iron Cast Iron	A48M Class30B A48M Class30B	EN 1561 GJL-200 EN 1561 GJL-200	1
	opper rump casing		A48M Class30B	EN1561 GJL-200	_
20A	Lower Pump Casing	I Cast Iron			
20A 20B	Low er Pump Casing Impeller	Cast Iron High Chrome Cast Iron	A532 Class III Type A	DN 1695 G-X2600 27	_
20A 20B 21	Low er Pump Casing Impeller Suction Strainer	Cast Iron High Chrome Cast Iron Steel	A532 Class III Type A A283 Grade D	DN 1695 G-X260027 EN 10025 S275	1
20A 20B 21 23 25	Impeller Suction Strainer Mechanical Seal	High Chrome Cast Iron Steel Silicon Carbide / H-50T			1
20A 20B 21 23 25 26A	Impeller Suction Strainer Mechanical Seal Oil Seal	High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759			1 1 1
20A 20B 21 23 25 26A 26B	Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal	High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812	A283 Grade D	EN 10025 S275	1 1 1 1
20A 20B 21 23 25 26A 26B 26C	Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel	A283 Grade D S 30400	EN 10025 S275	
20A 20B 21 23 25 26A 26B 26C 29	Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring Oil Casing	High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron	A283 Grade D S 30400 A48M Class30B	EN 10025 S275 1.4301 EN 1561 GJL-200	1 1 1 1 1 1
20A 20B 21 23 25 26A 26B 26B 26C 29 30	Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter	High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled)	A283 Grade D S 30400 A48M Class30B A109/A 1008	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130	
20A 20B 21 23 25 26A 26B 26C 29 30 34	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth	High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X2600/27	
20A 20B 21 23 25 26A 26B 26C 29 30 30 34 35	Impeller Suction Strainer Mechanical Seal Oil Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter	High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled)	A283 Grade D S 30400 A48M Class30B A109/A 1008	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36	Impeller Suction Strainer Mechanical Seal Oil Seal Dil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X2600/27	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ppe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A53 Type F + A283 Grade D	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 37 43 48	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron / NPT 6"or 8"	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ppe + Steel / 6" JS20K or 8" JIS10K Aluminium Alloy Cast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250	1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 1 3 3 1 1 1
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 37 43 43 48 50 51	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Onrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ripe + Steel / 6" JB20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron Cast Iron Cast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 34 35 36 37 43 35 50 51 52A	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Alloy Cast Iron / NPT 6"or 8" Cast Iron Cast Iron Kast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 35 36 37 43 35 50 51 52A 52B	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Onrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Ripe + Steel / 6" JB20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron Cast Iron Cast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50 51 52A 52B 53	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JE20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron #NU310C3 #7313ADBC3 w/ Spacer	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B A48M Class30B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-200	
20A 20B 21 23 25 26A 26C 29 30 34 35 36 37 43 48 50 51 52A 52B 53 54	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Corpanion Flange Motor Bracket Motor Head Qover Upper Bearing Low er Bearing Motor Protector Shaft	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Alloy Cast Iron / NPT 6"or 8" Cast Iron Cast Iron Kast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 35 36 37 43 48 50 51 52A 52B 53 54 55	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector Shaft Rotor	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JE20K or 8" JIS10K Aluminium Allo y Cast Iron Cast Iron #NU310C3 #7313ADBC3 w/ Spacer	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class35B A48M Class30B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-200	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 35 36 37 43 48 50 51 52A 52B 522B 53 54 55 56	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector Shaft Rotor	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Alloy Cast Iron Cast Iron #NUB10C3 #7313ADBC3 w/ Spacer Stainless Steel	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 448M Class30B S 42000	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-200 1.4028	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 35 36 37 43 48 50 51 52A 52B 52B 53 54 55 56 60	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lift er Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Rpe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron Zast Iron #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Katinless Steel Cast Iron Cast Iron Cast Iron Zast Iron Cast Iron Katinless Steel Cast Iron Stainless Steel Cast Iron Stainless Steel Cast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B S 448M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class30B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50 51 52A 53 54 55 56 60 64	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Allo y Cast Iron #NU310C3 #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class35B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250	
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 50 51 52A 52B 53 54 55 60 64 65	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing Outer Cover	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Stainless Steel Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron Zast Iron #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Stainless Steel	A283 Grade D S 30400 A48M Class30B A109/A 1008 A53 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class35B A48M Class35B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 10025 S275	1 1
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 48 50 51 52A 52B 53 54 55 60 64 65 71A	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing Outer Cover Shaft Sleeve (Upper)	High Chrome Cast Iron Steel Silicon Carbide / H50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Steel (Cold Rolled) High Chrome Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JB20K or 8" JIS10K Aluminium Alloy Cast Iron / NPT 6"or 8" Cast Iron #NU310C3 #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron Cast Iron Cast Iron Steel Stainless Steel Stainless Steel	A283 Grade D S 30400 A48M Class30B A109/A 1008 A532 Class IIIType A S 30400 A532 Class IIIType A S 30400 A48M Class30B A48M Class30B A48M Class35B A48M Class35B A48M Class35B A48M Class35B A48M Class35B A48M Class35B S 42000 S 42000 S 42000 S 42000	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 1561 GJL-200 EN 1695 G-X260027 1.4301 DN 1695 G-X260027 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 10025 S275 1.4	1 1
20A 20B 21 23 25 26A 26B 26C 29 30 34 35 36 37 43 50 51 52A 52B 53 54 55 56 60 64 65 71A 71B	Impeller Suction Strainer Mechanical Seal Oil Seal Labyrinth Ring Oil Casing Oil Lifter Suction Mouth Oil Plug Lubricant Flanged Discharge Pipe Cathodic Protection Plate Companion Flange Motor Bracket Motor Bracket Motor Head Cover Upper Bearing Low er Bearing Low er Bearing Motor Protector Shaft Rotor Stator Bearing Housing Motor Housing Outer Cover	High Chrome Cast Iron Steel Silicon Carbide / H-50T Nitrile Butadiene Rubber / TC-60759 Nitrile Butadiene Rubber / TCN-557812 Stainless Steel Cast Iron Stainless Steel Cast Iron Stainless Steel Turbine Oil BO VG32 or SAE10W-20 Steel Pipe + Steel / 6" JS20K or 8" JIS10K Aluminium Allo y Cast Iron Zast Iron #7313ADBC3 w/ Spacer Stainless Steel Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Cast Iron Stainless Steel	A283 Grade D S 30400 A48M Class30B A109/A 1008 A53 Class III Type A S 30400 A53 Type F + A283 Grade D A48M Class30B A48M Class30B A48M Class30B A48M Class30B A48M Class35B A48M Class35B	EN 10025 S275 1.4301 EN 1561 GJL-200 EN 10130 DN 1695 G-X260Q27 1.4301 DN 1615 St 3 + EN 10025 S275 EN 1561 GJL-200 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 1561 GJL-250 EN 10025 S275	1 1 <td< td=""></td<>



LH - SERIES DEWATERING PUMPS

SAMPLE SPECIFICATIONS

1. SCOPE OF SUPPLY -

Furnish and install TSURUMI Model ______ Submersible Pump(s). Each unit shall be capable of delivering _____GPM (_____m³/min) at _____Feet (_____m) TDH. The pump(s) shall be designed to pump waste water or effluent 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. Pump(s) shall be of the top discharge, flow through design.

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 plates shall be high chrome iron. 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 up to 75 HP and LH875/890/8110 shall be furnished with 150 lb. (10 kg/cm²) flat face flange and NPT companion flange. LH675/690/6110 shall be furnished with 300 lb. (20 kg/cm²) flat face flange and NPT companion flange. Impellers shall be of the multi-vane enclosed solids handling design equipped with back pump out vanes and shall be slip fit to the shaft and key driven. The unit(s) shall include built in cathodic protection.

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 be rated to preclude the incursion of water up to 42.6 PSI (98.4 Ft.) submergence. Units shall have silicon carbide mechanical seal faces. Mechanical seal hardware shall be stainless steel. Unit(s) shall incorporate seal pressure relief ports. Units 75 Hp and above shall be supplied with electrode type seal sensor. All unit(s) shall be fitted with a replaceable shaft sleeve.

4. MOTOR-

The pump motor(s) shall be ______ H P., ______ kW., ______V., 60 Hz. 3 Phase and shall be NEMA MG-1, Design Type B equivalent. Motor(s) shall be rated at full load amps. Motor(s) shall have a 1.15 service factor and shall be rated for 20 starts per hour. Motor(s) shall be air filled, copper wound, class F or B (up to 30 HP) insulated with built in thermal protection for each winding. Motor shaft shall be 420 stainless steel and shall be supported by two high temperature bearings, with a B-10 life rating at best efficiency point of 60,000 hours. On units up to 60 HP, the bottom bearing shall be two row, double shielded, C3, deep groove type ball bearing, and the top bearing shall be single row, double shielded, C3, angular contact type ball bearing, and the top bearing shall be re-greasable, two row, C3, angular contact type ball bearing, and the top bearing shall be re-greasable, single row, C3, cylindrical roller bearing. Motors shall be D.O.L. or stardelta start (40 HP and above), and shall be suitable for across the line start or variable speed applications, utilizing a properly sized variable frequency drive.

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.