B 50 • 80mm

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TSURUMI PUMP

The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.



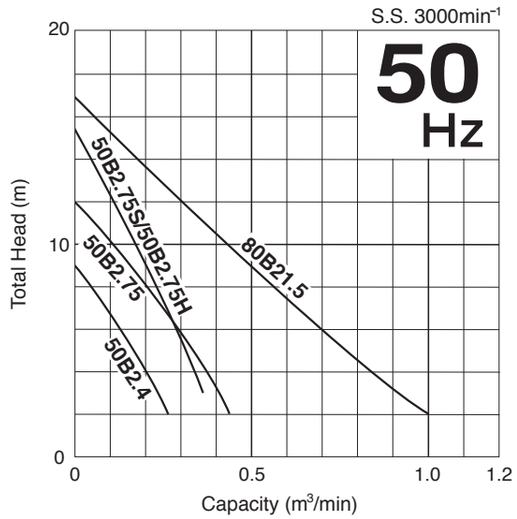
Free Standing

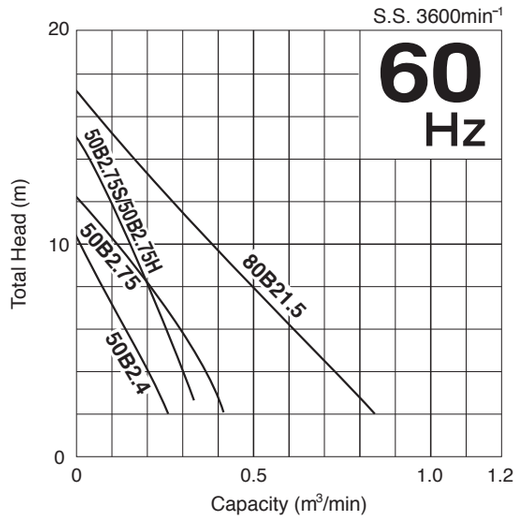
Guide Rail Fitting

Major Standard Specifications

Discharge Bore mm			50	80
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters	
	Fluid Temperature		0 to 40℃	
Pump	Structure	Impeller	Channel Impeller	
		Shaft Seal	Double Mechanical Seal with Oil Lifter	
		Bearing	Double-shielded Ball Bearing	
	Materials	Impeller	Gray Iron Casting	
		Casing	Gray Iron Casting	
		Shaft Seal	SiC	
Motor	Type, Pole		Dry Type Submersible Induction Motor	
			2-pole	
	Class of Insulation		Class E Class F (1.5kW only)	
	Phase		Single-phase (suffix "S") Three-phase	
	Starting Method		Capacitor Start (single-phase only) Direct on Line	
	Protection Device (built-in)		Circle Thermal Protector	
	Lubricant		Turbine Oil (ISO VG32)	
	Materials	Frame	Gray Iron Casting	
		Shaft	403 Stainless Steel 420 Stainless Steel (1.5kW only)	
		Cable	PVC	
Discharge Connection			Screwed Flange	

Performance Curves





* Standard, Automatic and Auto-Alternation models have the identical performance.

Standard Specifications

Discharge Bore mm	Standard Model			Automatic Model			Auto-Alternation Model			Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min-1	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs				Cabtyre Cable					
														Standard Model		Automatic & Auto-Alternation Model			200 ~ 240 V		380 ~ 575 V			
	Free Standing	Guide Rail Fitting		Free Standing	Guide Rail Fitting		Free Standing	Guide Rail Fitting						Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting	No. of Cables	Cores × mm2	Outer Dia. mm	Cores × mm2	Outer Dia. mm	Length m	Material
		TOS	TS		TOS	TS		TOS	TS														
50	50B2.4	TOS50B2.4	TS50B2.4	——	——	——	——	——	——	0.4	D.O.L.	3000/3600	35×22/35×18	25	24	—	—	1	4×1.25	11.1	4×1.25	11.1	6	PVC
50	50B2.75S	TOS50B2.75S	TS50B2.75S	50BA2.75S	TOS50BA2.75S	TS50BA2.75S	——	——	——	0.75	Capacitor	3000/3600	45×20/51×23	32	30	34	32	1	110 ~ 120 V 3×2.0	10.9	220 ~ 240 V 3×1.25	10.1	5	PVC
50	50B2.75H	TOS50B2.75H	TS50B2.75H	——	——	——	——	——	——	0.75	D.O.L.	3000/3600	21×25	24	23	—	—	1	4×1.25	11.1	4×1.25	11.1	6	PVC
50	50B2.75	TOS50B2.75	TS50B2.75	——	——	——	——	——	——	0.75	D.O.L.	3000/3600	45×20/51×23	25	24	—	—	1	4×1.25	11.1	4×1.25	11.1	6	PVC
80	80B21.5	TOS80B21.5	TS80B21.5	80BA21.5	TOS80BA21.5	TS80BA21.5	80BW21.5	TOS80BW21.5	TS80BW21.5	1.5	D.O.L.	3000/3600	49×41/49×35	36	34	40	38	1	4×1.25	11.1	4×1.25	11.1	6	PVC

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc

Model Number Designation

50 B A 2 .75 S H

- 50: Discharge bore in millimeters
- B: Name of the Series
- A: Operation Sub Code
  - None : None Automatic Operation
  - A : Automatic Operation
  - W : Auto-Alternation Operation
- 2: Number of poles of the motor
- .75: Rated motor output in kilowatts
- S: Phase
  - None : Three-phase
  - S : Single-phase
- H: Sub code for the pumping head
  - H : High head

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)
- Screwed Flange

Guide Rail Fitting - TOS

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)
- JIS 10kg/cm2 Flange (with Packing, Bolts & Nuts)
- Foundation Bolts (with Nuts)

Guide Rail Fitting - TS

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

B 100mm ▶

B 100mm

Product Index
Drawing Index

TSURUMI PUMP

The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.



Free Standing

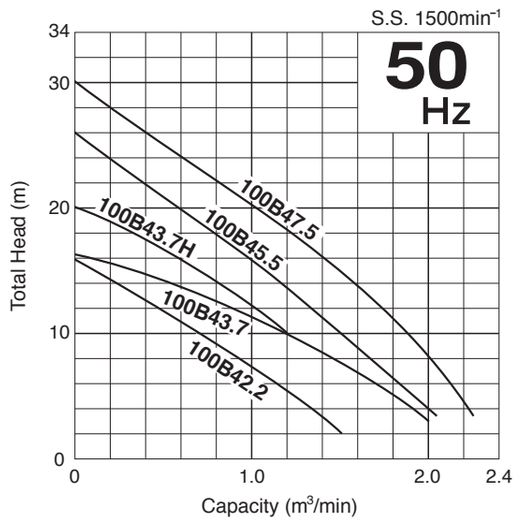


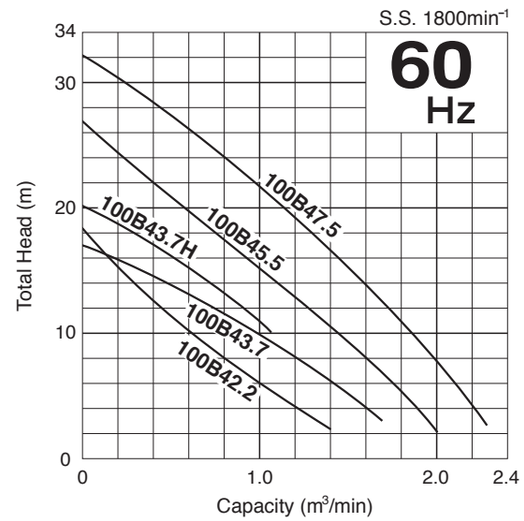
Guide Rail Fitting

Major Standard Specifications

Discharge Bore mm			100
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			4-pole
	Class of Insulation		Class E (3.7kW and below) Class F (5.5kW and above)
	Phase		Three-phase
	Starting Method		Direct on Line
	Protection Device (built-in)		Circle Thermal Protector
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	PVC (3.7kW and below) Chloroprene Rubber (5.5kW and above)
Discharge Connection			JIS 10K Flange

Performance Curves





* Standard, Automatic and Auto-Alternation models have the identical performance.

Standard Specifications

Discharge Bore mm	Standard Model			Automatic Model			Auto-Alternation Model			Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs				Cabtyre Cable					
														Standard Model		Automatic & Auto-Alternation Model		No. of Cables	200 ~ 240 V		380 ~ 575 V		Length m	Material
	Free Standing	Guide Rail Fitting TOS	Guide Rail Fitting TS	Free Standing	Guide Rail Fitting TOS	Guide Rail Fitting TS	Free Standing	Guide Rail Fitting TOS	Guide Rail Fitting TS					Free Standing	Guide Rail Fitting	Free Standing	Guide Rail Fitting		Cores × mm²	Outer Dia. mm	Cores × mm²	Outer Dia. mm		
100	100B42.2	TOS100B42.2	TS100B42.2	100BA42.2	TOS100BA42.2	TS100BA42.2	100BW42.2	TOS100BW42.2	TS100BW42.2	2.2	D.O.L.	1500/1800	47x53/47x46	68	64	78	74	1	4×2.0	11.8	4×2.0	11.8	6	PVC
100	100B43.7	TOS100B43.7	TS100B43.7	100BA43.7	TOS100BA43.7	TS100BA43.7	100BW43.7	TOS100BW43.7	TS100BW43.7	3.7	D.O.L.	1500/1800	81x53/81x47	84	80	94	90	1	4×3.5	13.9	4×2.0	11.8	6	PVC
100	100B43.7H	TOS100B43.7H	TS100B43.7H	——	——	——	——	——	——	3.7	D.O.L.	1500/1800	35x62/35x55	81	77	—	—	1	4×3.5	13.9	4×2.0	11.8	6	PVC
100	100B45.5	TOS100B45.5	TS100B45.5	——	——	——	——	——	——	5.5	D.O.L.	1500/1800	40x51/40x43	149	142	—	—	1	4×3.5	14.1	4×3.5	14.1	8	Chloroprene Rubber
100	100B47.5	TOS100B47.5	TS100B47.5	——	——	——	——	——	——	7.5	D.O.L.	1500/1800	40x61/40x54	162	155	—	—	1	4×5.5	16.8	4×5.5	16.8	8	Chloroprene Rubber

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc

Model Number Designation

100 B A 4 3.7 H

- 100 — Discharge bore in millimeters
- B — Name of the Series
- A — Operation Sub Code
  - None : None Automatic Operation
  - A : Automatic Operation
  - W : Auto-Alternation Operation
- 4 — Number of poles of the motor
- 3.7 — Rated motor output in kilowatts
- H — Sub code for the pumping head
  - H : High head

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)
- JIS 10kg/cm² Flange (with Packing, Bolts & Nuts)

Guide Rail Fitting - TOS

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)
- JIS 10kg/cm² Flange (with Packing, Bolts & Nuts)
- Foundation Bolts (with Nuts)

Guide Rail Fitting - TS

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

◀ B 50 • 80mm
B 150mm ▶

B 150mm

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TSURUMI PUMP

The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.

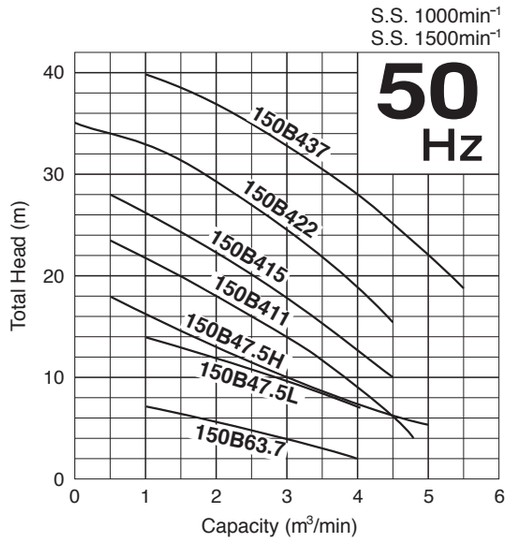


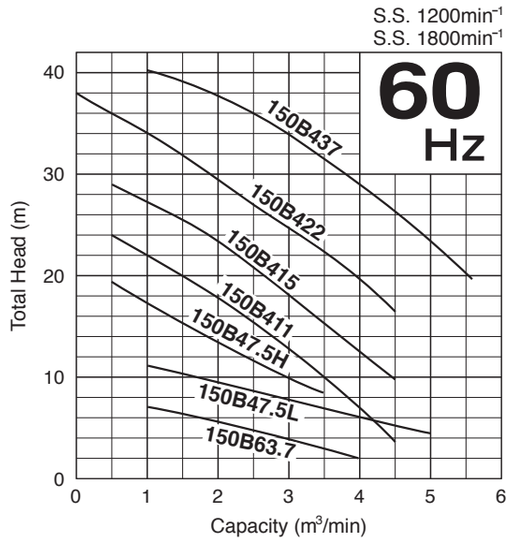
Free Standing

Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore mm			150
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			4, 6-pole
	Class of Insulation		Class B (3.7kW only) Class F
	Phase		Three-phase
	Starting Method		Direct on Line (7.5kW and below) Star-delta (11kW and above)
	Protection Device (built-in)		Circle Thermal Protector (7.5kW and below) Miniature Thermal Protector (11kW and above)
			Leakage Sensor (22kW and above)
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model: Free Standing	Model: Guide Rail Fitting	Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm *1	Dry Weight *2 kgs: Free Standing	Dry Weight *2 kgs: Guide Rail Fitting	Cabtyre Cable: No. of Cables	200 ~ 240 V: Cores × mm²	200 ~ 240 V: Outer Dia. mm	380 ~ 575 V: Cores × mm²	380 ~ 575 V: Outer Dia. mm	Length m	Material
150	150B63.7	TOS150B63.7	3.7	D.O.L.	1000/1200	70/55	280	250	1	4×3.5	14.1	4×3.5	14.1	6	Chloroprene Rubber
150	150B47.5H	TOS150B47.5H	7.5	D.O.L.	1500/1800	75/70	210	180	1	4×5.5	16.8	4×5.5	16.8	8	Chloroprene Rubber
150	150B47.5L	TOS150B47.5L	7.5	D.O.L.	1500/1800	60/50	196	171	1	4×5.5	16.8	4×5.5	16.8	8	Chloroprene Rubber
150	150B411	TOS150B411	11	Star-Delta	1500/1800	75	250	220	3	4×3.5 3×3.5 2×1.25	14.1 12.9 9.8	4×3.5 3×3.5 2×1.25	14.1 12.9 9.8	8	Chloroprene Rubber
150	150B415	TOS150B415	15	Star-Delta	1500/1800	75	270	240	3	4×5.5 3×5.5 2×1.25	16.8 15.2 9.8	4×5.5 3×5.5 2×1.25	16.8 15.2 9.8	8	Chloroprene Rubber
150	150B422	TOS150B422	22	Star-Delta	1500/1800	75	460	390	3	4×14 3×14 3×1.25	21.7 19.7 10.5	4×14 3×14 3×1.25	21.7 19.7 10.5	10	Chloroprene Rubber
150	150B437	TO150B437	37	Star-Delta	1500/1800	40×72/40×50	680	580	3	4×22 3×22 3×1.25	28.8 26.1 10.5	4×22 3×22 3×1.25	28.8 26.1 10.5	10	Chloroprene Rubber

*1 The impeller passages from 3.7 to 22kW models are described by the sphere diameter that can pass through the impeller.
*2 Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

Model Number Designation

150 B 4 7.5 H

- 150 — Discharge bore in millimeters
- B — Name of the Series
- 4 — Number of poles of the motor
- 7.5 — Rated motor output in kilowatts
- H — Sub code for the pumping head
  - H : High head
  - L : Low head

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TOS / TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

◀ B 100mm

B 200mm ▶

B 200mm

Product Index
Drawing Index

TSURUMI PUMP

The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.

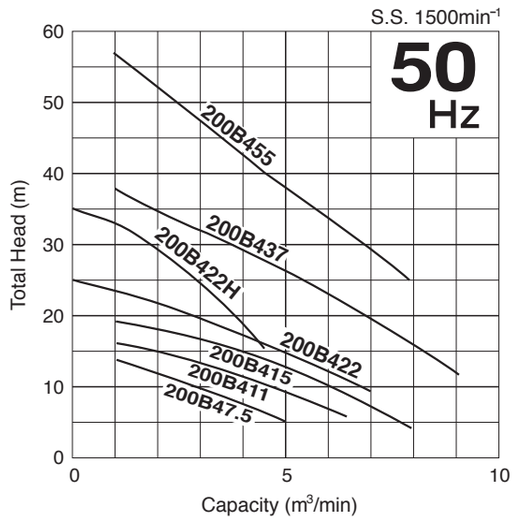


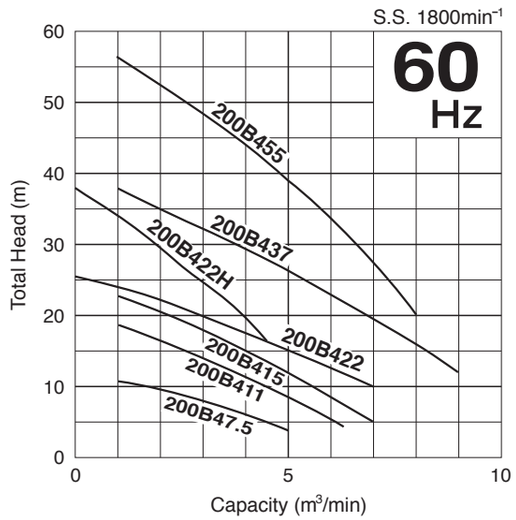
Free Standing

Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore mm			200
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			4-pole
	Class of Insulation		Class E (55kW only) Class F
	Phase		Three-phase
	Starting Method		Direct on Line (7.5kW only) Star-delta
	Protection Device (built-in)		Circle Thermal Protector (7.5kW only) Miniature Thermal Protector
			Leakage Sensor (22kW and above)
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model: Free Standing	Model: Guide Rail Fitting	Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm *1	Dry Weight *2 kgs: Free Standing	Dry Weight *2 kgs: Guide Rail Fitting	Cabtyre Cable: No. of Cables	200 ~ 240 V: Cores × mm²	200 ~ 240 V: Outer Dia. mm	380 ~ 575 V: Cores × mm²	380 ~ 575 V: Outer Dia. mm	Length m	Material
200	200B47.5	TO200B47.5	7.5	D.O.L.	1500/1800	80×60/100×50	203	208	1	4×5.5	16.8	4×5.5	16.8	8	Chloroprene Rubber
200	200B411	TO200B411	11	Star-Delta	1500/1800	68×60/65×58	252	257	3	4×3.5	14.1	4×3.5	14.1	8	Chloroprene Rubber
										3×3.5	12.9	3×3.5	12.9		
										2×1.25	9.8	2×1.25	9.8		
200	200B415	TO200B415	15	Star-Delta	1500/1800	70×60/69×60	302	287	3	4×5.5	16.8	4×5.5	16.8	8	Chloroprene Rubber
										3×5.5	15.2	3×5.5	15.2		
										2×1.25	9.8	2×1.25	9.8		
200	200B422H	TO200B422H	22	Star-Delta	1500/1800	75	465	420	3	4×14	21.7	4×14	21.7	10	Chloroprene Rubber
										3×14	19.7	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
200	200B422	TO200B422	22	Star-Delta	1500/1800	75	450	390	3	4×14	21.7	4×14	21.7	10	Chloroprene Rubber
										3×14	19.7	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
200	200B437	TO200B437	37	Star-Delta	1500/1800	40×77	710	605	3	4×22	28.8	4×14	21.7	10	Chloroprene Rubber
										3×22	26.1	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
200	200B455	TO200B455	55	Star-Delta	1500/1800	40×110/45×90	1060	1020	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		

*1 The impeller passage of 22kW models are described by the sphere diameter that can pass through the impeller.

*2 Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

*7cores[3×38 & 1×22 & 3×2]

Model Number Designation

200 B 4 22 H

- 200 — Discharge bore in millimeters
- B — Name of the Series
- 4 — Number of poles of the motor
- 22 — Rated motor output in kilowatts
- H — Sub code for the pumping head : H : High head

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

◀ B 150mm
B 250mm ▶

B 250mm

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Drawing Index

TSURUMI PUMP

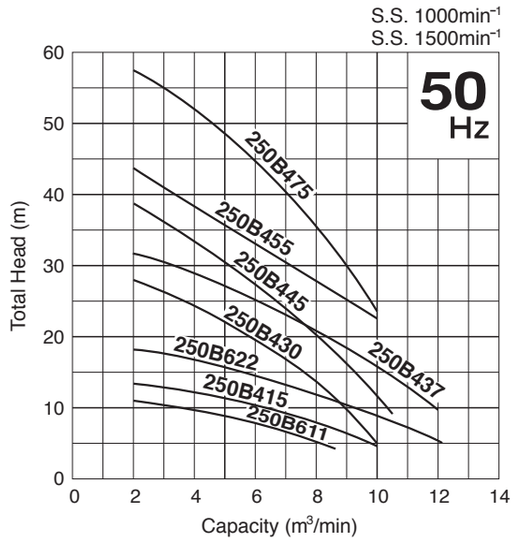
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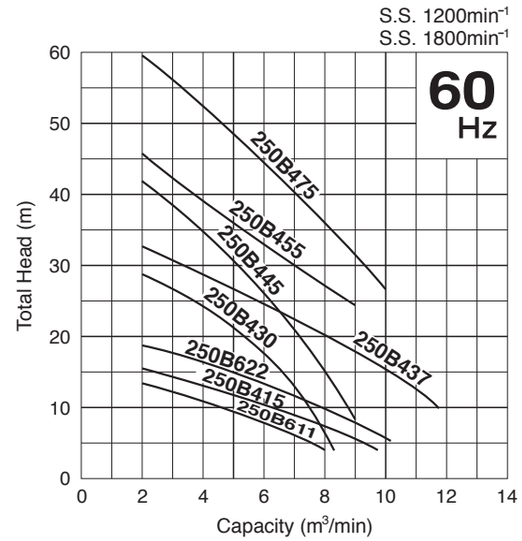


Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore		mm	250
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			4, 6-pole
	Class of Insulation		Class B (11kW only) Class E (55kW and 75kW only) Class F
	Phase		Three-phase
	Starting Method		Star-delta
	Protection Device (built-in)		Miniature Thermal Protector
			Leakage Sensor (22kW and above)
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model: Free Standing	Model: Guide Rail Fitting	Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm *1	Dry Weight *2 kgs: Free Standing	Dry Weight *2 kgs: Guide Rail Fitting	Cabtyre Cable: No. of Cables	200 ~ 240 V: Cores × mm²	200 ~ 240 V: Outer Dia. mm	380 ~ 575 V: Cores × mm²	380 ~ 575 V: Outer Dia. mm	Length m	Material
250	250B611	TO250B611	11	Star-Delta	1000/1200	80×68/80×58	430	390	1	9C[7×5.5 & 2×2]	24.4	9C[7×3.5 & 2×2]	21.3	8	Chloroprene Rubber
250	250B415	TO250B415	15	Star-Delta	1500/1800	73/64	420	380	3	4×5.5	16.8	4×5.5	16.8	8	Chloroprene Rubber
										3×5.5	15.2	3×5.5	15.2		
										2×1.25	9.8	2×1.25	9.8		
250	250B622	TO250B622	22	Star-Delta	1000/1200	90×90/96×76	735	630	3	4×14	21.7	4×14	21.7	10	Chloroprene Rubber
										3×14	19.7	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
250	250B430	TO250B430	30	Star-Delta	1500/1800	75×80/76×76	730	610	3	4×14	21.7	4×14	21.7	10	Chloroprene Rubber
										3×14	19.7	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
250	250B437	TO250B437	37	Star-Delta	1500/1800	63×80/65×76	765	640	3	4×22	28.8	4×22	28.8	10	Chloroprene Rubber
										3×22	26.1	3×22	26.1		
										3×1.25	10.5	3×1.25	10.5		
250	250B445	TO250B445	45	Star-Delta	1500/1800	45×70/45×68	780	680	3	—	—	4×14	21.7	10	Chloroprene Rubber
										—	—	3×14	19.7		
										—	—	3×1.25	10.5		
250	250B455	TO250B455	55	Star-Delta	1500/1800	45×70/45×68	1100	1040	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		
250	250B475	TO250B475	75	Star-Delta	1500/1800	35×75/35×78	1150	1090	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		

*1 The impeller passage of 15kW model is described by the sphere diameter that can pass through the impeller.

*2 Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

*7cores[3×38 & 1×22 & 3×2]

Model Number Designation

250 B 6 11

- 250 — Discharge bore in millimeters
- B — Name of the Series
- 6 — Number of poles of the motor
- 11 — Rated motor output in kilowatts

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

◀ B 200mm
B 300mm ▶

B 300mm

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Drawing Index

TSURUMI PUMP

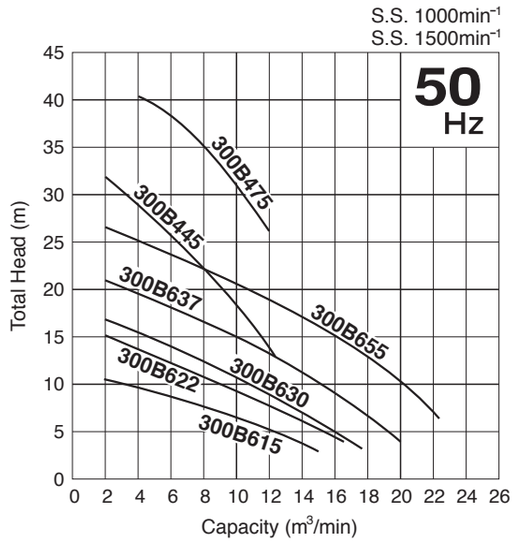
The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.

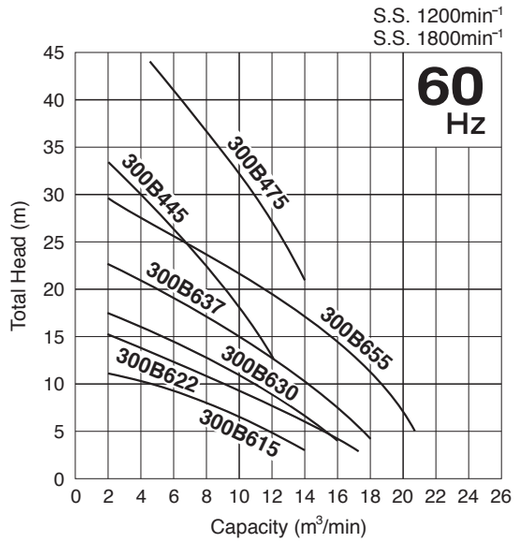


Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore			mm: 300
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			4, 6-pole
	Class of Insulation		Class B (15kW only) Class E (55kW and 75kW only) Class F
	Phase		Three-phase
	Starting Method		Star-delta
	Protection Device (built-in)		Miniature Thermal Protector
			Leakage Sensor (22kW and above)
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model: Free Standing	Model: Guide Rail Fitting	Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs: Free Standing	Dry Weight * kgs: Guide Rail Fitting	Cabtyre Cable: No. of Cables	200 ~ 240 V: Cores × mm²	200 ~ 240 V: Outer Dia. mm	380 ~ 575 V: Cores × mm²	380 ~ 575 V: Outer Dia. mm	Length m	Material
300	300B615	TO300B615	15	Star-Delta	1000/1200	140×90/140×60	550	520	1	9C[7×8 & 2×2]	24.4	9C[7×5.5 & 2×2]	24.4	8	Chloroprene Rubber
300	300B622	TO300B622	22	Star-Delta	1000/1200	140×76/127×76	790	685	3	4×14	21.7	4×14	21.7	10	Chloroprene Rubber
										3×14	19.7	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
300	300B630	TO300B630	30	Star-Delta	1000/1200	130×115/140×76	815	685	3	4×22	28.8	4×22	28.8	10	Chloroprene Rubber
										3×22	26.1	3×22	26.1		
										3×1.25	10.5	3×1.25	10.5		
300	300B637	TO300B637	37	Star-Delta	1000/1200	140×100/140×65	850	725	3	4×22	28.8	4×22	28.8	10	Chloroprene Rubber
										3×22	26.1	3×22	26.1		
										3×1.25	10.5	3×1.25	10.5		
300	300B445	TO300B445	45	Star-Delta	1500/1800	60×90/70×76	870	740	3	—	—	4×14	21.7	10	Chloroprene Rubber
										—	—	3×14	19.7		
										—	—	3×1.25	10.5		
300	300B655	TO300B655	55	Star-Delta	1000/1200	105×90/110×90	1550	1500	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		
300	300B475	TO300B475	75	Star-Delta	1500/1800	60×80/65×90	1150	1100	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

*7cores[3×38 & 1×22 & 3×2]

Model Number Designation

300 B 6 15

- 300 — Discharge bore in millimeters
- B — Name of the Series
- 6 — Number of poles of the motor
- 15 — Rated motor output in kilowatts

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

◀ B 250mm
B 350mm ▶

B 350mm

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TSURUMI PUMP

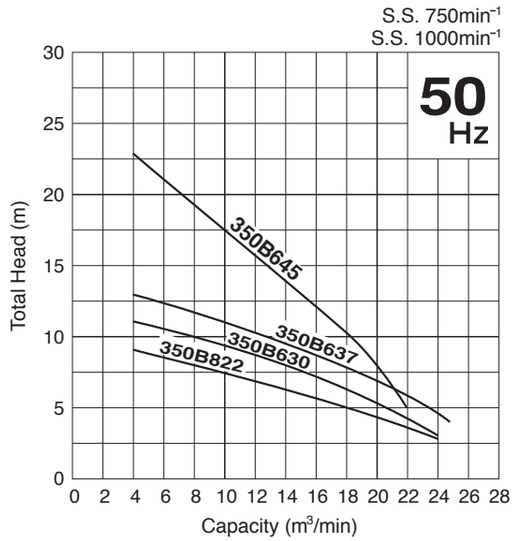
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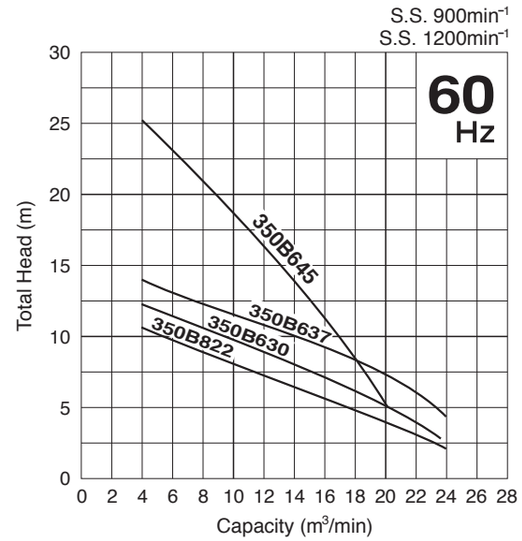


Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore mm			350
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			6, 8-pole
	Class of Insulation		Class F
	Phase		Three-phase
	Starting Method		Star-delta
	Protection Device (built-in)		Miniature Thermal Protector
			Leakage Sensor
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model: Free Standing	Model: Guide Rail Fitting	Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs: Free Standing	Dry Weight * kgs: Guide Rail Fitting	Cabtyre Cable: No. of Cables	Cabtyre Cable: 200 ~ 240 V: Cores × mm²	Cabtyre Cable: 200 ~ 240 V: Outer Dia. mm	Cabtyre Cable: 380 ~ 575 V: Cores × mm²	Cabtyre Cable: 380 ~ 575 V: Outer Dia. mm	Cabtyre Cable: Length m	Cabtyre Cable: Material
350	350B822	TO350B822	22	Star-Delta	750/900	156×100/160×90	965	815	3	4×14	21.7	4×14	21.7	10	Chloroprene Rubber
										3×14	19.7	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
350	350B630	TO350B630	30	Star-Delta	1000/1200	190×95/200×70	920	770	3	4×22	28.8	4×14	21.7	10	Chloroprene Rubber
										3×22	26.1	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
350	350B637	TO350B637	37	Star-Delta	1000/1200	190×130/200×100	970	815	3	4×22	28.8	4×14	21.7	10	Chloroprene Rubber
										3×22	26.1	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
350	350B645	TO350B645	45	Star-Delta	1000/1200	130×90/140×78	1550	1395	3	—	—	4×14	21.7	10	Chloroprene Rubber
										—	—	3×14	19.7		
										—	—	4×1.25	11.3		

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

Model Number Designation

350 B 8 22

- 350 — Discharge bore in millimeters
- B — Name of the Series
- 8 — Number of poles of the motor
- 22 — Rated motor output in kilowatts

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

◀ B 300mm

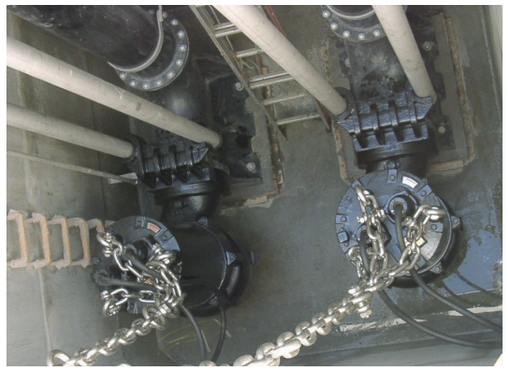
B 400mm ▶

B 400mm

Product Index | Drawing Index

TSURUMI PUMP

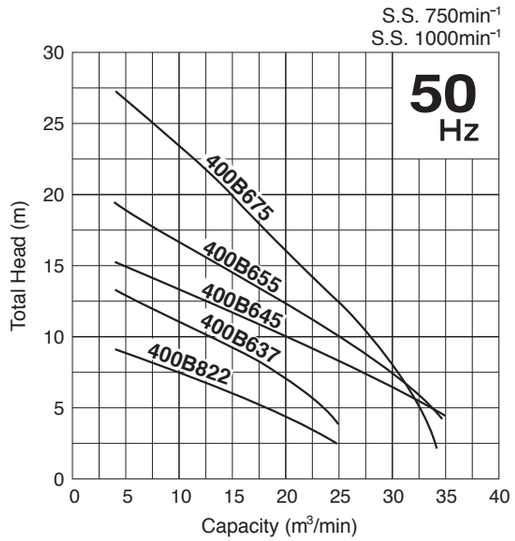
The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.

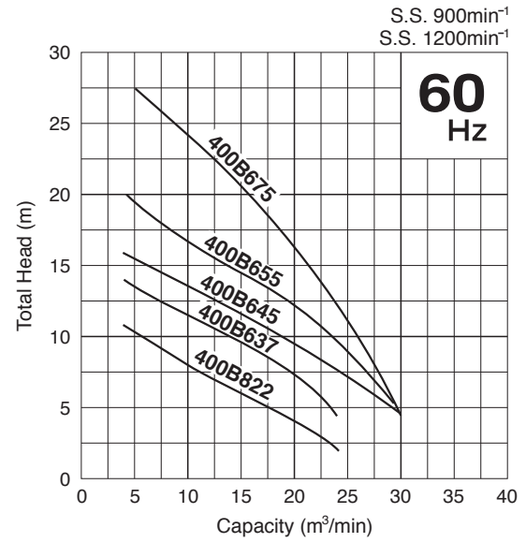


Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore mm			400
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			6, 8-pole
	Class of Insulation		Class E (55kW and 75kW only) Class F
	Phase		Three-phase
	Starting Method		Star-delta
	Protection Device (built-in)		Miniature Thermal Protector
			Leakage Sensor
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model: Free Standing	Model: Guide Rail Fitting	Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs: Free Standing	Dry Weight * kgs: Guide Rail Fitting	Cabtyre Cable: No. of Cables	200 ~ 240 V: Cores × mm²	200 ~ 240 V: Outer Dia. mm	380 ~ 575 V: Cores × mm²	380 ~ 575 V: Outer Dia. mm	Length m	Material
400	400B822	TO400B822	22	Star-Delta	750/900	156×109/160×90	985	920	3	4×14	21.7	4×14	21.7	10	Chloroprene Rubber
										3×14	19.7	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
400	400B637	TO400B637	37	Star-Delta	1000/1200	190×130/200×100	990	955	3	4×22	28.8	4×14	21.7	10	Chloroprene Rubber
										3×22	26.1	3×14	19.7		
										3×1.25	10.5	3×1.25	10.5		
400	400B645	TO400B645	45	Star-Delta	1000/1200	175×128/175×100	1650	1580	3	—	—	4×14	21.7	10	Chloroprene Rubber
										—	—	3×14	19.7		
										—	—	4×1.25	11.3		
400	400B655	TO400B655	55	Star-Delta	1000/1200	145×110/175×100	1750	1700	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		
400	400B675	TO400B675	75	Star-Delta	1000/1200	130×100/140×90	1850	1800	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

*7cores[3×38 & 1×22 & 3×2]

Model Number Designation

400 B 8 22

- 400 — Discharge bore in millimeters
- B — Name of the Series
- 8 — Number of poles of the motor
- 22 — Rated motor output in kilowatts

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

◀ B 350mm

B 500mm ▶

B 500mm

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TSURUMI PUMP

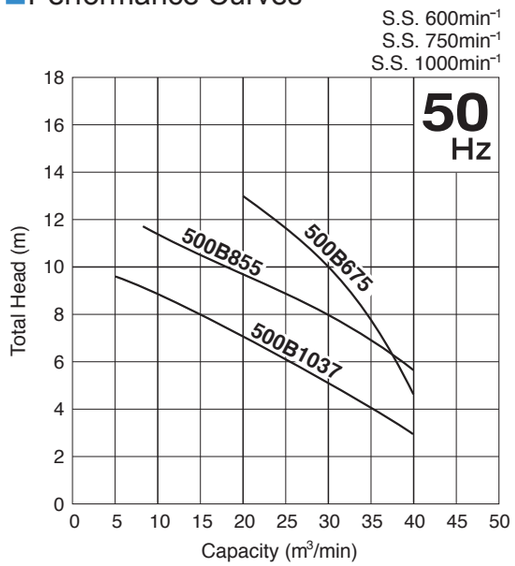
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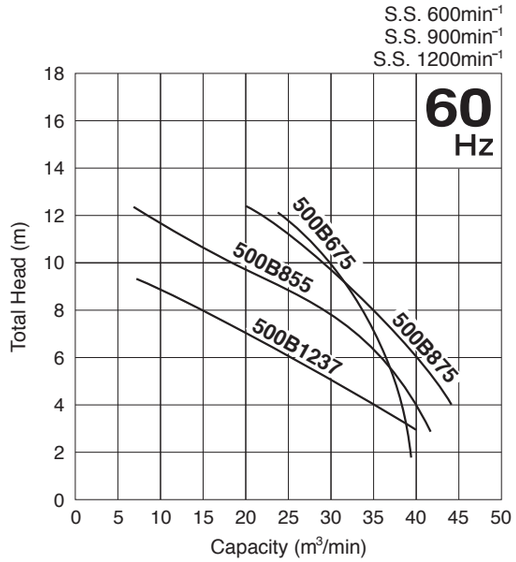


Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore mm			500
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			6, 8, 10, 12-pole
	Class of Insulation		Class E Class F (37kW only)
	Phase		Three-phase
	Starting Method		Star-delta
	Protection Device (built-in)		Miniature Thermal Protector
			Leakage Sensor
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model: Free Standing	Model: Guide Rail Fitting	Motor Output kW	Starting Method	Speed (S.S.) 50Hz/60Hz min⁻¹	Impeller Passage 50Hz/60Hz mm	Dry Weight * kgs: Free Standing	Dry Weight * kgs: Guide Rail Fitting	Cabtyre Cable: No. of Cables	200 ~ 240 V: Cores × mm²	200 ~ 240 V: Outer Dia. mm	380 ~ 575 V: Cores × mm²	380 ~ 575 V: Outer Dia. mm	Length m	Material
500	500B1037	TO500B1037	37	Star-Delta	600/——	225×100	2050	1950	2	7c[3×38]*	35.8	7c[3×38]*	35.8	10	Chloroprene Rubber
										3×38	35.9	3×38	35.9		
500	500B1237	TO500B1237	37	Star-Delta	——/600	225×100	2050	1950	2	7c[3×38]*	35.8	7c[3×38]*	35.8	10	Chloroprene Rubber
										3×38	35.9	3×38	35.9		
500	500B855	TO500B855	55	Star-Delta	750/900	175×140/175×80	2150	2050	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		
500	500B675	TO500B675	75	Star-Delta	1000/1200	130×120/130×100	2150	2050	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		
500	500B875	TO500B875	75	Star-Delta	——/900	190×80	2550	2450	2	—	—	7c[3×38]*	35.8	10	Chloroprene Rubber
										—	—	3×38	35.9		

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

*7cores[3×38 & 1×22 & 3×2]

Model Number Designation

500 B 10 37

- 500 — Discharge bore in millimeters
- B — Name of the Series
- 10 — Number of poles of the motor
- 37 — Rated motor output in kilowatts

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

B 600 • 700 • 800mm / 50Hz

Product Index

TSURUMI PUMP

The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.

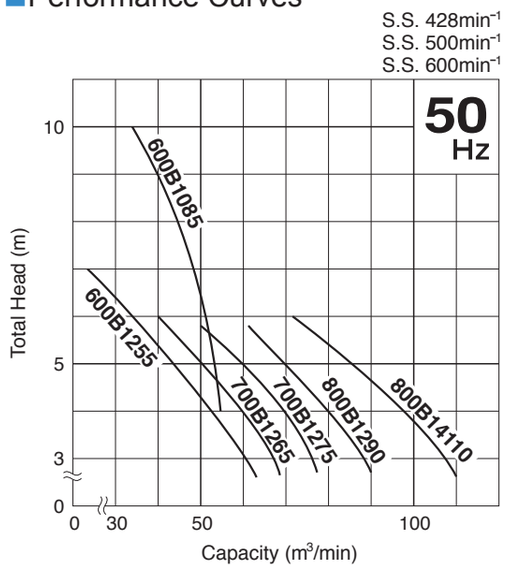


Guide Rail Fitting

Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore mm			600	700	800
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters		
	Fluid Temperature		0 to 40℃		
Pump	Structure	Impeller	Channel Impeller		
		Shaft Seal	Double Mechanical Seal with Oil Lifter		
		Bearing	Double-shielded Ball Bearing		
	Materials	Impeller	Gray Iron Casting		
		Casing	Gray Iron Casting		
		Shaft Seal	SiC		
Motor	Type, Pole		Dry Type Submersible Induction Motor		
			10, 12, 14-pole		
	Class of Insulation		Class F		
	Phase		Three-phase		
	Starting Method		Star-delta		
	Protection Device (built-in)		Miniature Thermal Protector		
			Leakage Sensor		
	Lubricant		Turbine Oil (ISO VG32)		
	Materials	Frame	Gray Iron Casting		
		Shaft	420 Stainless Steel		
		Cable	Chloroprene Rubber		
Discharge Connection			JIS 10K Flange		

Standard Specifications

Discharge Bore mm	Model		Motor Output kW	Starting Method	Speed (S.S.) min-1	Impeller Passage mm	Dry Weight * kgs		Cabtyre Cable				
	Free Standing	Guide Rail Fitting					Free Standing	Guide Rail Fitting	No. of Cables	380 ~ 575 V Cores × mm2	380 ~ 575 V Outer Dia. mm	Length m	Material
600	600B1255	TO600B1255	55	Star-Delta	500	220×100	3150	3350	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
600	600B1085	TO600B1085	85	Star-Delta	600	210×85	3100	3300	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
700	700B1265	TO700B1265	65	Star-Delta	500	300×85	4000	4400	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
700	700B1275	TO700B1275	75	Star-Delta	500	300×85	4200	4600	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
800	800B1290	TO800B1290	90	Star-Delta	500	300×90	5600	5800	2	7c[3×60]*2	45.7	10	Chloroprene Rubber
										3×60	45.7		
800	800B14110	TO800B14110	110	Star-Delta	428	310×90	5800	6000	2	7c[3×60]*2	45.7	10	Chloroprene Rubber
										3×60	45.7		

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

*1 7cores[3×38 & 1×22 & 3×2]
*2 7cores[3×60 & 1×22 & 3×2]

Model Number Designation

600 B 12 55

- 600 — Discharge bore in millimeters
- B — Name of the Series
- 12 — Number of poles of the motor
- 55 — Rated motor output in kilowatts

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)

B 600 • 700 • 800mm / 60Hz

Product Index

TSURUMI PUMP

The B-series is the basic model of the Tsurumi submersible sewage pumps, and it can be used for various kinds of field. A channel impeller practically prevents internal clogging and enables the pump to efficiently transfer sewage and wastewater containing solid matters. It is available as an extended line-up from 50 to 800 mm discharge bores.

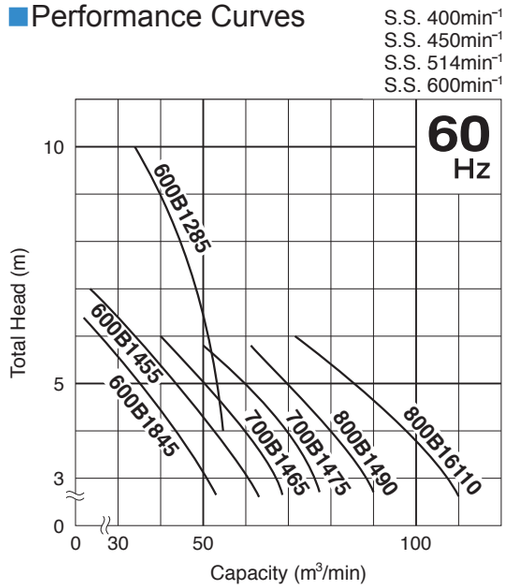


Guide Rail Fitting

Applications

- Transferring sewage and wastewater to wastewater treatment plant
- Draining wastewater from industrial plant
- Draining effluent from residence, hotel, commercial complex, etc
- Pumping storm water at flood control facility

Performance Curves





Major Standard Specifications

Discharge Bore mm			600 / 700 / 800
Pumping Fluid	Type of Fluid		Wastewater, and Liquid carrying Waste and Solid Matters
	Fluid Temperature		0 to 40℃
Pump	Structure	Impeller	Channel Impeller
		Shaft Seal	Double Mechanical Seal with Oil Lifter
		Bearing	Double-shielded Ball Bearing
	Materials	Impeller	Gray Iron Casting
		Casing	Gray Iron Casting
		Shaft Seal	SiC
Motor	Type, Pole		Dry Type Submersible Induction Motor
			12, 14, 16, 18-pole
	Class of Insulation		Class F
	Phase		Three-phase
	Starting Method		Star-delta
	Protection Device (built-in)		Miniature Thermal Protector
			Leakage Sensor
	Lubricant		Turbine Oil (ISO VG32)
	Materials	Frame	Gray Iron Casting
		Shaft	420 Stainless Steel
		Cable	Chloroprene Rubber
Discharge Connection			JIS 10K Flange

Standard Specifications

Discharge Bore mm	Model		Motor Output kW	Starting Method	Speed (S.S.) min-1	Impeller Passage mm	Dry Weight * kgs		Cabtyre Cable				
	Free Standing	Guide Rail Fitting					Free Standing	Guide Rail Fitting	No. of Cables	380 ~ 575 V Cores × mm2	380 ~ 575 V Outer Dia. mm	Length m	Material
600	600B1845	TO600B1845	45	Star-Delta	400	280×90	5000	5200	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
600	600B1455	TO600B1455	55	Star-Delta	514	220×100	3150	3350	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
600	600B1285	TO600B1285	85	Star-Delta	600	210×85	3100	3300	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
700	700B1465	TO700B1465	65	Star-Delta	514	300×85	4000	4400	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
700	700B1475	TO700B1475	75	Star-Delta	514	300×85	4200	4600	2	7c[3×38]*1	35.8	10	Chloroprene Rubber
										3×38	35.9		
800	800B1490	TO800B1490	90	Star-Delta	514	300×90	5600	5800	2	7c[3×60]*2	45.7	10	Chloroprene Rubber
										3×60	45.7		
800	800B16110	TO800B16110	110	Star-Delta	450	310×90	5800	6000	2	7c[3×60]*2	45.7	10	Chloroprene Rubber
										3×60	45.7		

* Dry weight
All weights excluding cable
Weights of guide rail fitting excluding duckfoot bend

*1 7cores[3×38 & 1×22 & 3×2]
*2 7cores[3×60 & 1×22 & 3×2]

Model Number Designation

600 B 18 45

- 600 — Discharge bore in millimeters
- B — Name of the Series
- 18 — Number of poles of the motor
- 45 — Rated motor output in kilowatts

Standard Accessories

Free Standing

- Discharge Bend (with Packing & Bolts)

Guide Rail Fitting - TO

- Lifting Chain 5m, (with Shackles)
- Guide Support (with Bolts & Nuts)
- Guide Hook (with Bolts)
- Duckfoot Bend
- Guide Connector (with Bolts)