C 50 • 80mm

The C-series incorporates a channel impeller with cutter mechanism. A sintered tungsten carbide alloy tip is brazed on the impeller vane and rotates on the serrated part of the suction cover. This mechanism cuts fibrous matters flowed into the impeller and discharge them.





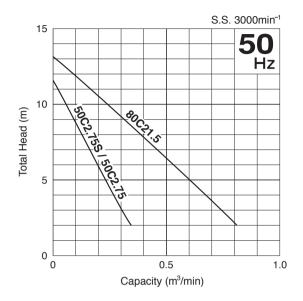
Free Standing

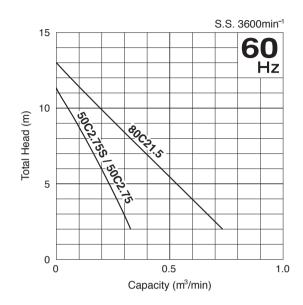
Guide Rail Fitting

■Major Standard Specifications

Discharge Bore mm			50	80						
Pumping Fluid	Type of F	luid	Wastewater, and Liquid carrying Waste and Solid Matters							
Fluid	Fluid Tem	perature	0 to 40℃							
		Impeller	Channel	Impeller	with Cutter Mechanism					
	Structure	Shaft Seal	Double N	/lechanica	al Seal with Oil Lifter					
		Bearing	Double-shielded Ball Bearing							
Pump		Impeller	Gray Iron	n Casting						
	Materials	Casing	Gray Iron Casting							
	iviatoriais	Suction Cover	Ductile Iron Casting							
		Shaft Seal	SiC							
	Type, Pol	0	Dry Type Submersible Induction Motor							
	туре, го	E	2-pole							
	Class of I	nsulation	Class E Class F (1.5kW only)							
	Phase		Single-phase (suffix "S") Three-phase							
Motor	Starting N	1ethod	Capacitor Start (single-phase only) Direct on Line							
	Protection I	Device (built-in)	Circle Thermal Protector							
	Lubricant		Turbine Oil (ISO VG32)							
		Frame	Gray Iron Casting							
	Materials	Shaft	420 Stainless Steel							
		Cable	PVC							
Discharge	e Connecti	on	Screwed Flange							

■Performance Curves





TSURUMI PUMP

■Standard Specifications

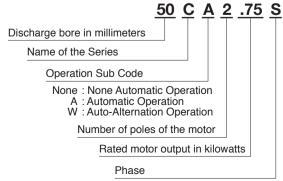
		Standard Model Automatic Model			Auto Alternation Model					Speed	eed Impeller		Dry Weight * kgs			Cabtyre Cable								
Discha Bor	iye	Stariuaru ivid	Juei	Automatic Model Auto-Alternation Model		Motor Starting		(S.S.)	Passage	Standard Model Auto-Alternation Model		natic & lation Model		200 ~ 240 V		380 ~ 575 V								
DUI	Free	Guide Ra	ail Fitting	Free	Guide Ra	ail Fitting	Free	Guide Rail Fitting		Output	Method	50Hz/60Hz	50Hz/60Hz	Free	Guide Rail	Guide Rail Free		No. of Cables	Cores ×	Outer	Outer Cores × Outer		Length	Material
mn	Standing	TOS	TS	Standing	TOS	TS	Standing	TOS	TS	kW		min⁻¹	mm	Standing	Fitting	Standing	Fitting	Cables	mm ²	mm	mm ²	mm	m	
50	50C2.75S	TOS50C2.75S	TS50C2.75S	50CA2.75S	TOS50CA2.75S	TS50CA2.75S				0.75	Capacitor	3000/3600	31×27/28×27	32	30	34	32	1	3×2.0		3×1.25		5	PVC
50	50C2.75	TOS50C2.75	TS50C2.75	50CA2.75	TOS50CA2.75	TS50CA2.75	50CW2.75	TOS50CW2.75	TS50CW2.75	0.75	D.O.L	3000/3600	31×27/28×27	24	23	25	24	1	4×1.25	11.1	4×1.25	11.1	6	PVC
80	80C21.5	TOS80C21.5	TS80C21.5	80CA21.5	TOS80CA21.5	TS80CA21.5	80CW21.5	TOS80CW21.5	TS80CW21.5	1.5	D.O.L	3000/3600	43×60/37×60	36	36	40	39	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



None: Three-phase S: Single-phase

■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)

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

100mm

TSURUMI PUMP

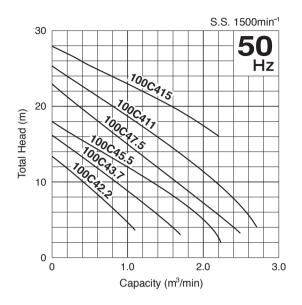
The C-series incorporates a channel impeller with cutter mechanism. A sintered tungsten carbide alloy tip is brazed on the impeller vane and rotates on the serrated part of the suction cover. This mechanism cuts fibrous matters flowed into the impeller and discharge them.

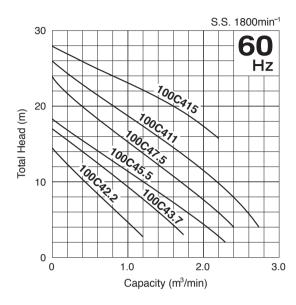


Applications

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

■Performance Curves





■Major Standard Specifications

Discharge Bore mm			100								
Pumping Fluid	Type of F	luid	Wastewater, and Liquid carrying Waste and Solid Matters								
i iaia	Fluid Tem	perature	0 to 40℃								
		Impeller	Channel Impeller with Cutter Mechanism								
	Structure	Shaft Seal	Double Mechanical Seal with Oil Lifter								
		Bearing	Double-shielded Ball Bearing								
Pump		Impeller	Gray Iro	n Casting							
	Materials	Casing	Gray Iron	n Casting							
	iviateriais	Suction Cover	Ductile Iron Casting								
		Shaft Seal	SiC								
	Type Pol	0	Dry Type Submersible Induction Motor								
	Type, Pol	е	4-pole								
	Class of I	nsulation	Class E (3.7kW and below) Class F (5.5kW and above)								
	Phase		Three-phase								
Motor	Starting N	lethod (Direct on Line (7.5kW and below) Star-delta (11kW and above)								
WOTO	Protection (built-in)	n Device	Circle Thermal Protector (7.5kW and below) Miniature Thermal Protector (11kW and above								
	Lubricant		Turbine Oil (ISO VG32)								
		Frame	Gray Iron Casting								
	Materials	Shaft	420 Stainless Steel								
		Cable	PVC (3.7kW and below) Chloroprene Rubber (5.5kW and above)								
Discharge	Discharge Connection			JIS 10K Flange							

■Standard Specifications

		Model				Speed	Impeller	Dry Weight*		* Cabtyre Cable						
Discharge		Model		Motor Starting			Passage	kgs		No. of	200 ~ 240 V		380 ~ 575 V			
Bore	Free Guide Rail Fitting			Output Method		50Hz/60Hz	50Hz/60Hz	Free	Free Guide Rail		Cores ×	Outer Dia.	Cores × Outer Dia.		Length	Material
mm	Standing	TOS	TS	kW		min-1	mm	Standing	Fitting	Cables	mm ² mm mm ²	mm ²	mm	m		
100	100C42.2	TOS100C42.2	TS100C42.2	2.2	D.O.L	1500/1800	67×56/62×56	68	64	1	4×2.0	11.8	4×2.0	11.8	6	PVC
100	100C43.7	TOS100C43.7	TS100C43.7	3.7	D.O.L	1500/1800	70×81/64×81	84	80	1	4×3.5	13.9	4×2.0	11.8	6	PVC
100	100C45.5	TOS100C45.5	TS100C45.5	5.5	D.O.L	1500/1800	82×68/68×68	142	135	1	4×3.5	14.1	4×3.5	14.1	8	Chloroprene Rubber
100	100C47.5	TOS100C47.5	TS100C47.5	7.5	D.O.L	1500/1800	76×69/71×68	155	148	1	4×5.5	16.8	4×5.5	16.8	8	Chloroprene Rubber
100	100C411	TOS100C411	TS100C411	11	Star-Delta	1500/1800	82×75/87×75	178	171	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
100	100C415	TOS100C415		15	Star-Delta	1500/1800	87×45/77×40	322	315	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

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

■ Model Number Designation

100 C 4 2.2 Discharge bore in millimeters Name of the Series Number of poles of the motor Rated motor output in kilowatts

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)