

Submersible Sewage Pumps High Head Cutter C



Cutting up foreign matter to ensure smooth pumping Suitable for pumping over long distances

The C-series, high-head type, incorporates a cutter mechanism that cuts up foreign matters sucked up with wastewater to prevent the pump from clogging. The mechanism is composed of sintered tungsten carbide alloy edges integrated with an impeller and a suction cover with a saw-tooth suction port. The impeller is equipped with two vanes, namely, two edges that act as a rotating cutter, that provide higher cutting efficiency. The impeller and suction cover are made of high-chromium cast iron, ensuring excellent durability and enabling the pump to maintain high performance for an extended period. The submersible high-head cutter pumps are appropriate for today's water-conservation society.

Applications

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

Rise Average Total Head Cases 5 C

Performance Comparison

Semi-open Channel Impeller with Cutter Mechanism



Features

1. Anti-wicking Cable Entry

The cable entry has an anti-wicking block. It prevents ingress of water that may occur when the cable is damaged or the end of the cable is accidentally submerged.

2. Motor Protector

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.

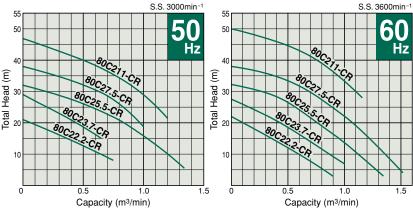
3. Dual Inside Mechanical Seal

Tsurumi incorporates the dual inside mechanical seal (dual face mechanical seal located in an oil bath) in all pumps. As both top and bottom sealing faces are lubricated by the oil only, it ensures a longer life of the product and a stable sealing effect.

4. OIL LIFTER (patent pending)

The OIL LIFTER is a lubricating device that forcibly lubricates the mechanical seal. It further stabilizes the functions of the mechanical seal and extends the life expectancy of the seal and also the maintenance term.





Standard Specifications 50/60Hz												
Discharge Bore	Model		Motor	Phase	Speed (S.S.)	Starting Method	Max. Head	Impeller	Dry Weight** kgs		Cable Length	
mm	Free Standing	ee Guide Rail	kW		(3.3.) min ⁻¹	weillou	m	Passage mm	Free Standing	Guide Rail Fitting	m	
80	80C22.2-CR	TOS80C22.2-CR	2.2	Three	3000/3600	D.O.L.	21 / 22	22 31/20 31	77	68	10	
80	80C23.7-CR	TOS80C23.7-CR	3.7	Three	3000/3600	D.O.L.	29 / 27.5	22 31.3/22 31	80	71	10	
80	80C25.5-CR	TOS80C25.5-CR	5.5	Three	3000/3600	D.O.L.*	32 / 32.3	29 23.2/29 23	136.5	123	10	
80	80C27.5-CR	TOS80C27.5-CR	7.5	Three	3000/3600	D.O.L.*	38 / 38	26 25.5/29 23	141.5	128	10	
80	80C211-CR	TOS80C211-CR	11	Three	3000/3600	Star-Delta	47 / 50	26 26.7/26 25.5	156.5	143	10	

Star-Delta available upon request

All weights excluding cable *>

Weights of guide rail fitting excluding duckfoot bend

We reserve the right to change the specifications and designs for improvement without prior notice.

TSURUMI MANUFACTURING CO., LTD.

Your Dealer

Maior Standard Specifications

Dischar	ge Bore	mm	80			
Pumping Fluid	Type of I	Fluid	Sewage, Wastewater, and Liquid carrying Waste and Solid Matters			
	Fluid Ter	mperature	0 to 40YC			
	Chrusture	Impeller	Semi-open Channel Impeller with Cutter Mechanism			
	Structure	Shaft Seal	Double Mechanical Seal with Oil Lifter			
		Bearing	Double-shielded Ball Bearing			
Pump		Impeller	Chromium Iron Casting			
		Cutting Edge	Tungsten Carbide Alloy			
	Materials	Casing	Gray Iron Casting			
		Suction Cover	Chromium Iron Casting			
		Shaft Seal	Silicon Carbide			
			Dry Type Submersible Induction Motor			
	Type, Po	ne	2-pole			
	Insulatio	n	Class F			
	Phase		Three-phase			
	Starting	Method	D.O.L. (7.5kW and below) Star-Delta (5.5kW and above)			
Motor	Protectio (built-in)	on Device	Circle Thermal Protector Miniature Thermal Protector (11kW only)			
	Lubricar	nt	Turbine Oil (ISO VG32)			
	Materials	Frame	Gray Iron Casting			
		Shaft	420 Stainless Steel			
	Waterials	Cable	PVC (3.7kW and below) Chloroprene Rubber (5.5kW and above			
Dischar	ge Conn	ection	JIS 10kg/cm ² Flange			

Standard Accesories

Free Standing

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

Guide Rail Fitting

- 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)