



 **TSURUMI PUMP™**

BN

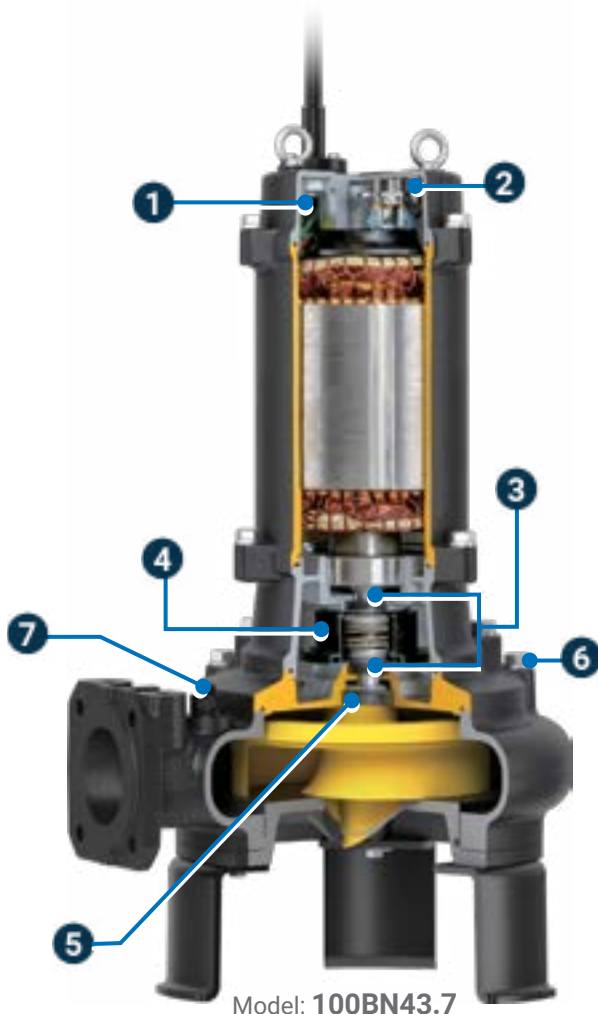
Submersible
Smashing Cutter Pump

BN Submersible Smashing Cutter Pump

Built for Reliable Solids Handling

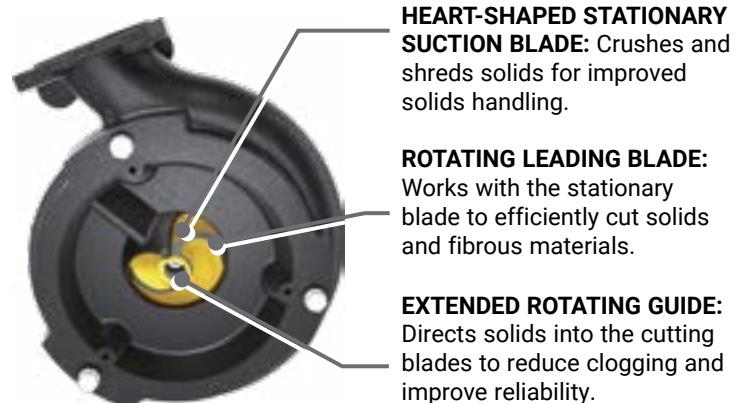
The Tsurumi BN Series is a heavy-duty submersible wastewater pump engineered for applications where clogging is a constant challenge. Its exclusive smashing cutter mechanism efficiently handles solids and long fibrous materials, while rugged construction and proven Tsurumi technologies deliver dependable performance, extended service life, and simplified maintenance.

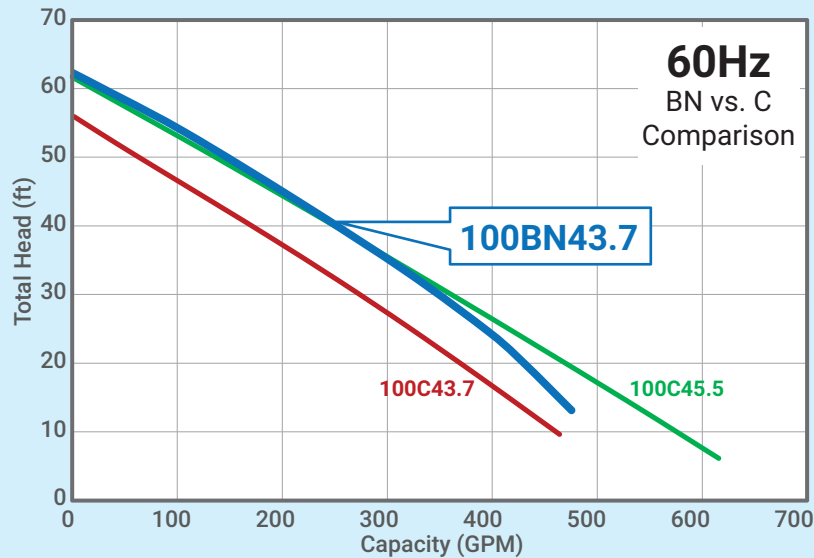
Ideal for municipal, commercial, and industrial wastewater applications where reliable solids handling is essential.



- 1 ANTI-WICKING CABLE ENTRY:** Prevents water from entering the motor through the cable, protecting the motor from moisture and condensation.
- 2 MOTOR PROTECTOR:** Built-in thermal protection automatically shuts off the motor during overheating or overload conditions to help prevent damage.
- 3 DUAL INSIDE MECHANICAL SEALS WITH SILICON CARBIDE FACES:** Oil-lubricated dual mechanical seals with silicon carbide faces provide exceptional resistance to wear, heat, and corrosion for longer seal life.
- 4 OIL LIFTER:** Tsurumi's exclusive Oil Lifter continuously lubricates and cools the seal faces, extending seal life even at low oil levels.
- 5 OIL SEAL:** Acts as a dust seal to protect the mechanical seals from abrasive particles and contaminants.
- 6 BACK PULL-OUT DESIGN:** Allows the motor and impeller assembly to be removed without disconnecting the pump casing, simplifying maintenance and inspection.
- 7 AIR RELEASE VALVE:** Automatically releases trapped air to prevent air lock and maintain reliable pump operation.

ANTI-CLOGGING SMASHING MECHANISM





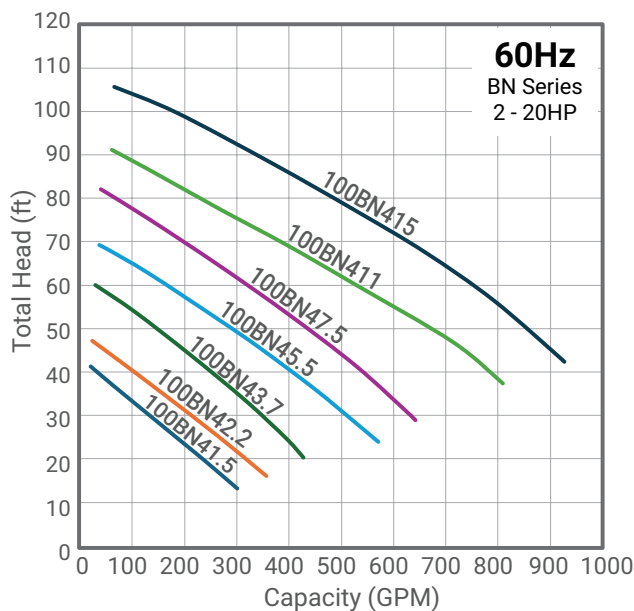
**Engineered to Do More
with Less**

**Less Installed Horsepower
for Comparable Performance**

A 5 HP 100BN43.7 can replace a 7 HP 100C45.5, reducing motor costs and energy consumption while maintaining application performance.

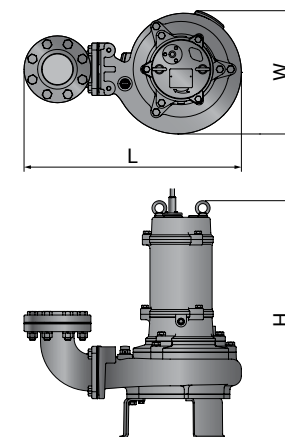
BN Series Specifications

Group Curves

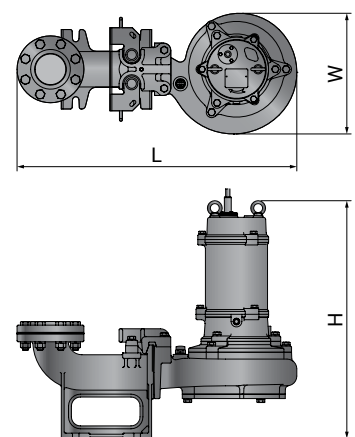


Dimensions

Free Standing Installation



Guide Rail Installation



Model	Motor Output hp	Discharge Size inch	Phase	Starting Method	Dimensions L x W x H inch		Weight lbs		Cable Length* ft	Need Thermal Relay in Panel
					Free Standing Installation	Guide Rail Installation	Pump with Bend*	Pump Unit Only*		
100BN41.5	2	4	Three	D.O.L.	23.9 x 11.6 x 24.9	30.1 x 11.2 x 25.8	168	141	32	No
100BN42.2	3				24.8 x 13.4 x 26	31 x 13.2 x 25.9	179	152		No
100BN43.7	5				24.8 x 13.4 x 27.9	31 x 13.2 x 27.9	203	176		No
100BN45.5	7.5				27 x 16.1 x 36.6	35.6 x 15.4 x 36.5	366	331		No
100BN47.5	10				27 x 16.1 x 35.9	35.6 x 15.4 x 35.8	384	348		No
100BN411	15				28.4 x 17.2 x 39.4	37.1 x 17.2 x 39	509	472		Yes
100BN415	20				28.4 x 17.2 x 42.1	37.1 x 17.2 x 41.7	545	509		Yes

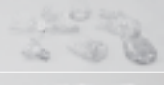
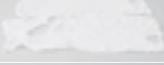
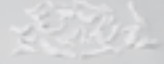
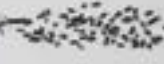
*No cable

*No cable

*Optional:
Cable length extension

Engineered to Shred the Toughest Solids

Built on the success of the popular C Series, the BN Series takes cutter pump performance to a new level with enhanced shredding capability and improved anti-clogging technology for more reliable wastewater handling.

	Original	BN SERIES SMASHING CUTTER	C Series Cutter
Aluminium Can			
Plastic Bottle			
Hand Towel			
Wet Wipes			
Face Mask			
Plastic Bag			
Rubber Gloves			
Pantyhose			
Adult Diaper			
Cable			
Rope			
Cardboard			
Polypropylene Band			



Watch
Pump in Action



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