Grinder -10000 Muffin Monster® -Inline series

The 10000 Muffin Monster sewage grinder is designed to protect pumps and other equipment by grinding down the toughest wastewater solids. Its dual-shafted, slow speed, high-torque design shreds tough solids that typically cause problems in the wastewater treatment process system. Its compact design fits into areas with limited space while providing the necessary power for downstream protection.

Construction

- Inline pipe configuration
- Pipe flange diameters of 100 mm and 150 mm
- · Hardened alloy steel cutters (standard), 120 mm diameter
- Ductile iron housings
- Hardened alloy steel shafts, 50 mm hex
- Mechanical seals with tungsten carbide faces, 6 bar working pressure

Performance

• Flow rates up to 125 m³/hr

Applications

- · Sludge lines
- Pump stations
- Private facility discharge to municipal sewer system
- Prison sewage system protection
- Industrial wet waste grinding and maceration

Monster Renew grinder

In place of repairing a worn grinder, choose a Monster Renew unit. Sulzer provides a new, factory-built grinder cartridge to replace the worn grinder cartridge. Remove the motor and reducer from the worn unit, install the motor and reducer on the Monster Renew unit, and install the new assembly in place of the worn unit. Benefits include:

- · Minimizes operational downtime
- · Quick turnaround
- · All new parts
- · Great time to upgrade unit
- Full factory warranty on the Monster Renew grinder cartridge







Muffin Monster motor assembly

- 1.5 kW gear motor standard, 2.2 kW gear motor optional
- Optional explosion proof and immersible electric motors available
- 25:1 reducer, cycloidal design

Muffin Monster controller

- Ensures maximum grinding ability with minimum stoppage
- Designed and programmed for specified motor

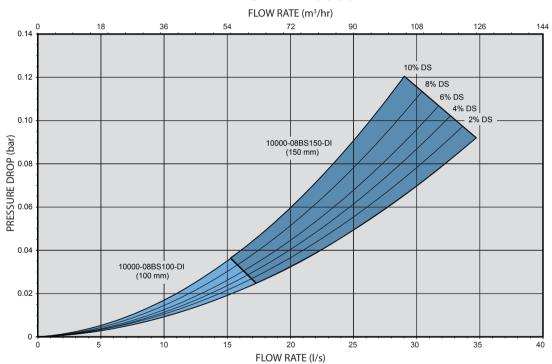
Muffin Monster grinder cutters

Tooth count	Thickness	Material
11-tooth	8 mm	Hardened alloy steel
13-tooth	5.5 mm	Hardened alloy steel
17-tooth Wipes Ready®	11 mm	Hardened alloy steel

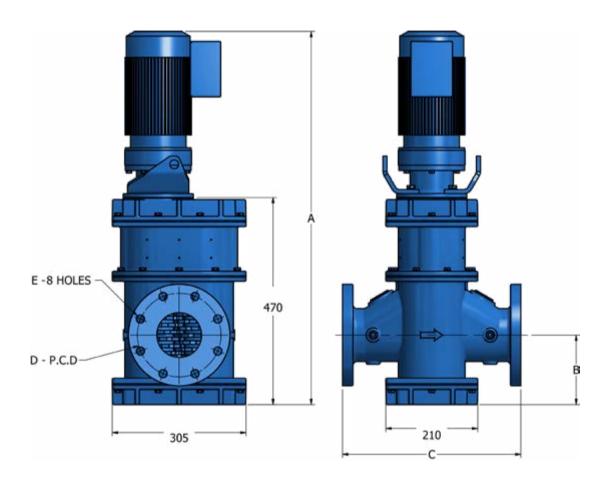
Muffin Monster grinder materials

Part	Standard
Housings	Ductile iron
Cutters	Hardened alloy steel
Shafts	Hardened alloy steel
Mechanical seals	Tungsten carbide faces
Gaskets	Cork and rubber

MODEL 10000



Dimensions (mm)



Inline model	Flow rate ¹ - m³/hr	Pipeline size - mm	Pressure drop - bar	Standard dimensions ² - mm										Approximate net weight - kg
			50.	A (IP55)	A (IP68)	В	С	D	E	9				
10000-B100-DI	62	100	0.03	1010	1160	158	406	180	19 (M16)	137				
10000-B150-DI	125	150	0.09	1010	1160	184	483	240	23 (M20)	147				

^{1. 0-2%} solids. In-Line unit typically installed prior to suction side of pump. Consult factory for analysis of application. 2. Drive dimensions are a maximum based on a unit with a 2.2 kW drive.

10000 Muffin Monster grinder model coding

Product family	Solids reduction sewage grinder	Q													
Grinder family	10K Muffin Monster		1												
	New unit with motor (specified separately)			1											
Grinder configuration	Monster Renew unit			Α											
	Monster Renew unit with spool			В											
Cutter stack height and	200 mm stack, 100 mm flange				J	1									
flange diameter	200 mm stack, 150 mm flange				J	2									
Flange type	BS EN 1092, PN16						D								
Cutter material	Alloy steel							1							
	11-tooth, 8 mm thick								F	3					
Cutter	13-tooth, 5.5 mm thick								Н	2					
	17-tooth Wipes Ready®, 11 mm thick								W	4					
Body material & colour	Cast iron blue										S				
Seals & gaskets material	Seal cartridge and cork & rubber gaskets											С			
Drum information	Not applicable												Х	Х	
Drive configuration	Single drive														S
Example:	10000-B100 with 13-tooth cutters	Q	1	1	J	1	D	1	Н	2	S	С	X	Χ	S

Muffin Monster motor assembly

Power	Voltage	Protection type	Motor model code
1.5 kW gear motor	400V, 3-phase, 50 Hz	IP55	QA1435BXM
2.2 kW gear motor	400V, 3-phase, 50 Hz	IP55	QB1435BXM
1.5 kW TEFC	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex d IIC T4)	QC2435B2M
1.5 kW Immersible	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QC3435B1M
2.2 kW TEFC	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex d IIC T4)	QD2435B2M
2.2 kW Immersible	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QD3435B1M

Muffin Monster controller

Cuinday matay tuna	Model code for IP65 control panel enclosure					
Grinder motor type	Powder coated mild steel material	Stainless steel material				
1.5 kW IP55	QK1P45XXX	QK1S45XXX				
1.5 kW IP68	QK2P45XXX	QK2S45XXX				
2.2 kW IP55	QL1P45XXX	QL1S45XXX				
2.2 kW IP68	QL2P45XXX	QL2S45XXX				