# Grinder -10002 Muffin Monster<sup>™</sup>-Open channel series

The 10002 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

- Open channel configuration
- Cutter chamber opening height of 185 mm
- Hardened alloy steel cutters (standard), or optional stainless steel cutters available, 120 mm diameter
- Ductile iron housings
- Hardened alloy steel shafts, 50 mm hex
- Mechanical seals with tungsten carbide faces (6 bar working pressure) or optional severe-duty seals available (10.3 maximum dry working pressure)
- Available with channel or wall mounted frame for easy installation

# Performance

• Flow rates up to 41.4 m<sup>3</sup>/hr

# **Applications**

- Pump stations
- Collection systems
- Headworks at wastewater treatment
- · 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 grinder cutters**

Tooth count	Thickness	Material
7-tooth	11 mm	Hardened alloy steel*
11-tooth	8 mm	Hardened alloy steel*
17-tooth Wipes Ready™	11 mm	Hardened alloy steel

\* Available in optional stainless steel.

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# **Muffin Monster motor assembly**

- 1.5 kW gear motor standard, 2.2 kW gear motor optional
- Optional explosion proof (1.5 kW, 2.2 kW and 4.0 kW) and immersible electric motors (1.5 kW, 2.2 kW and 3.7 kW) available
- 25:1 reducer, cycloidal design

### **Muffin Monster frame options**

- · Adapt grinders for easy installation
- · Channel frames to fit most channel types
- · Wall frames to mount on flat or round walls
- Type 304 or 316 stainless steel construction
- Guide rails for easy installation and maintenance

#### **Muffin Monster controller**

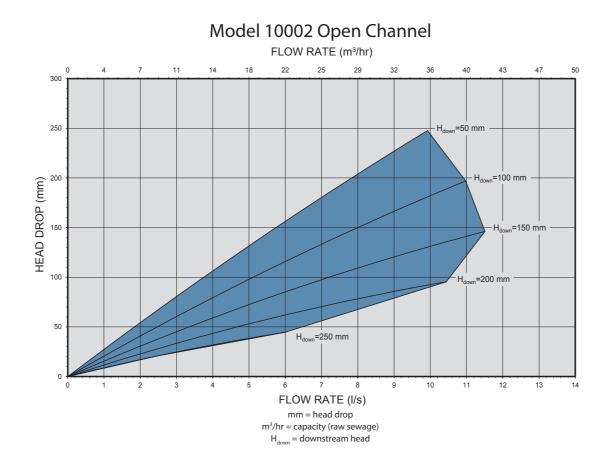
- Ensures maximum grinding ability with minimum stoppage
- Designed and programmed for specified motor

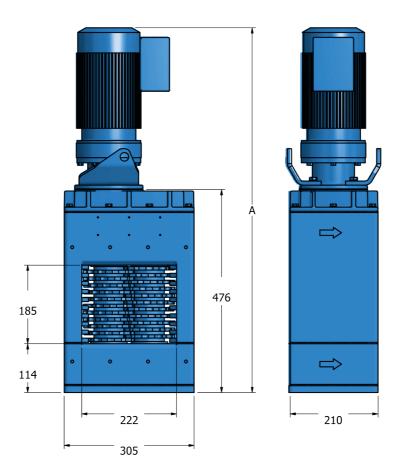
# Muffin Monster grinder materials

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

\*\* Available in optional stainless steel.

\*\*\* Available in optional Viton™.

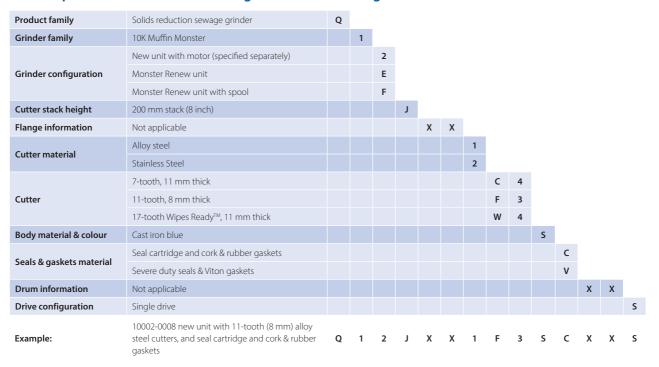




Open channel model	Flow rate <sup>1</sup> - m³/hr	Head drop - mm	Standard dimensions <sup>2</sup> - mm		Approximate net weight <sup>3</sup> - kg
			A (IP55)	A (IP68)	9
10002-0008-DI	41.4	146	1'015	1'160	255

Flow based on optimum channel conditions. Consult factory for analysis of application.
Drive dimensions are a maximum based on a unit with a 2.2 kW drive. Extended drive shafts are available on request.

3. Weight is based on a unit with a 2.2 kW IP68 drive.



# 10002 Open channel Muffin Monster grinder model coding

# **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	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex d IIC T4)	QC2435B2M
1.5 kW	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QC3435B2M
2.2 kW	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex d IIC T4)	QD2435B2M
2.2 kW	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QD3435B1M
4.0 kW	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex de IIC T4)	QE2435B2M
3.7 kW	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QE3435B1M

## **Muffin Monster controller**

Cuiu dan matan tana	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	
4.0 kW IP55	QM1P45XXX	QM1545XXX	
3.7 kW IP68	QM2P45XXX	QM2S45XXX	

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