

Grinder - 40002 Muffin Monster® - Open channel series

SULZER

The 40002 Muffin Monster excels in wet and dry grinding applications. It protects pumps and other sensitive equipment by grinding down the toughest wastewater solids. Its powerful, dual-shafted, slow speed, high-torque design shreds the toughest solids.

Construction

- Open channel configuration
- Grinder cutter stack heights from 450 mm to 800 mm
- Hardened alloy steel cutters (standard), 190 mm diameter
- Ductile iron housings
- Hardened alloy steel shafts, 64 mm hex
- Mechanical seals with tungsten carbide faces, 10.3 bar maximum dry working pressure
- Available with channel or wall mounted frame for easy installation

Performance

- Flow rates up to 477 m³/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
11-tooth	11 mm	Hardened alloy steel



Muffin Monster motor assembly

- 7.5 kW power
- Optional explosion proof and immersible motors available
- 35:1 reducer, cycloidal design

Muffin Monster frame options

- Adapt grinders for easy installations
- 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

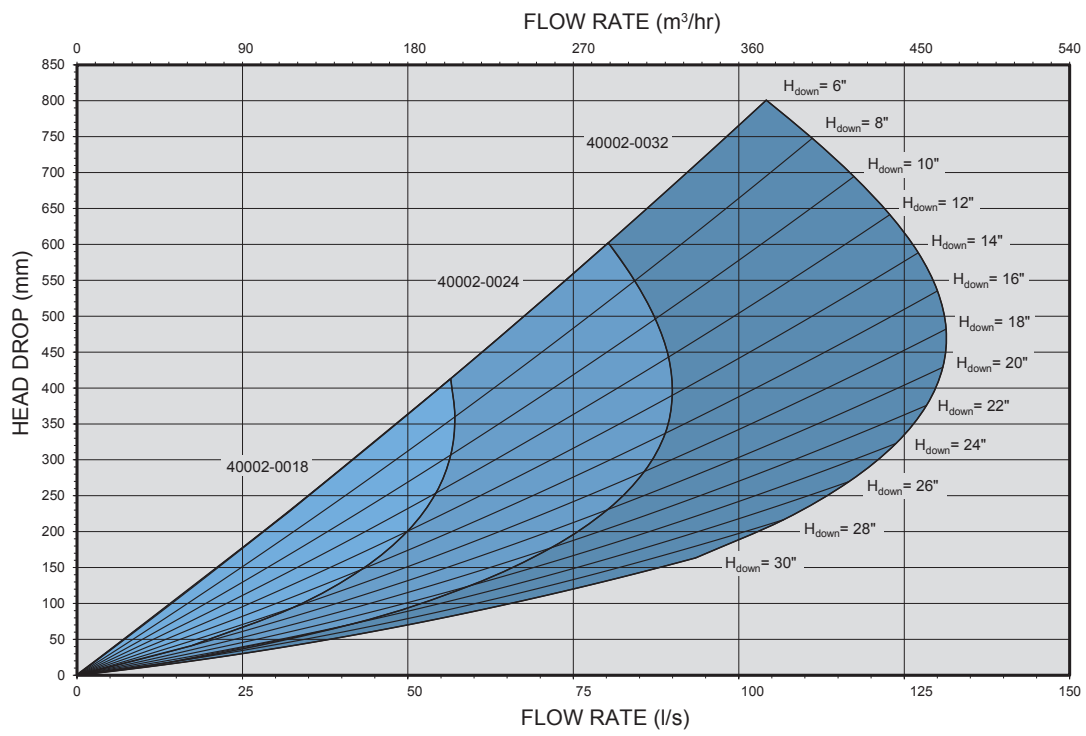
- Ensures maximum grinding ability with minimum stoppage
- Designed and programmed for specified motor

Muffin Monster grinder materials

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

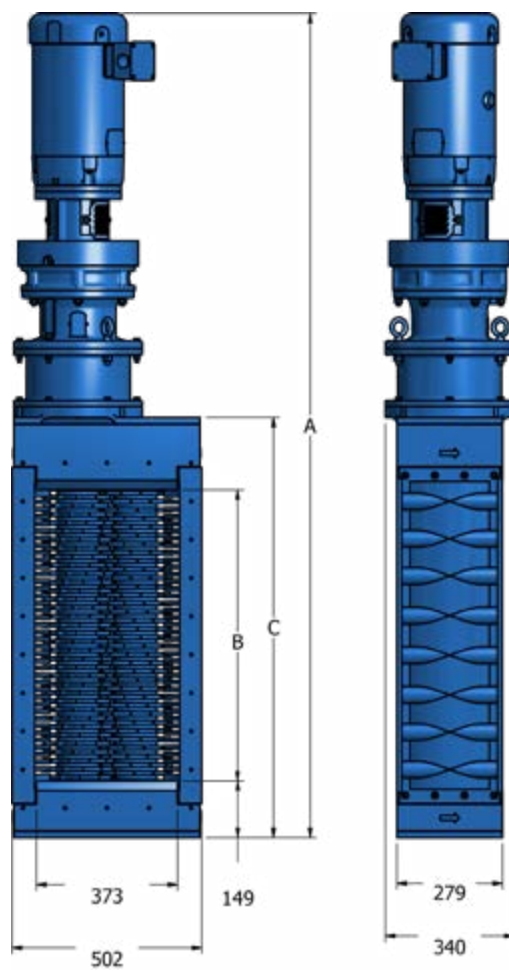
For guidance in selecting a 40002 Muffin Monster, please contact Sulzer.

Performance curves



H_{down} = downstream head

Dimensions (mm)



Open channel model	Flow rate ¹ - m ³ /hr	Head drop - mm	Standard dimensions ² - mm				Approximate net weight - kg
			A (IP55)	A (IP68)	B	C	
40002-0018	207	203	1704	1816	457	768	533
40002-0024	327	406	1882	1994	610	946	619
40002-0032	477	457	2050	2162	813	1114	708

1. Flow based on optimum channel conditions. Consult factory for analysis of application.

2. Drive dimensions are a maximum based on a unit with a 7.5 kW drive. Extended drive shafts are available on request.

40002 Open channel Muffin Monster grinder model coding

Product family	Solids reduction sewage grinder	Q																				
Grinder family	40K Muffin Monster		4																			
Grinder configuration	New unit with motor (specified separately)			2																		
	Monster Renew unit				E																	
	Monster Renew unit with spool					F																
Cutter stack height	450 mm (18 inch)									L												
	600 mm (24 inch)										M											
	800 mm (32 inch)											N										
Flange information	Not applicable										X	X										
Cutter material	Alloy steel															1						
Cutter	11-tooth, 11 mm thick																F	4				
Body material & colour	Cast iron blue																				S	
Seals & gaskets material	Severe duty seals & Viton gaskets																				V	
Drum information	Not applicable																				X	X
Drive configuration	Single drive																					S
Example	40002-0032	Q	4	2	N	X	X	1	F	4	S	V	X	X	S							

Muffin Monster motor assembly

Power	Voltage	Protection type	Motor model code
7.5 kW TEFC	400V, 3-phase, 50 Hz	IP55	QF1435B2R
7.5 kW TEFC	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex d IIC T4)	QF2435B2R
7.5 kW Immersible	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QF3435B1R

Muffin Monster controller

Grinder motor type	Model code for IP65 control panel enclosure	
	Powder coated mild steel material	Stainless steel material
7.5 kW IP55	QN1P45XXX	QN1S45XXX
7.5 kW IP68	QN2P45XXX	QN2S45XXX