

Grinder - 30005 Muffin Monster® - Open channel series

SULZER

The 30005 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 sewer problems.

Construction

- Open channel configuration
- Grinder cutter stack heights from 300 mm to 1500 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, 10.3 bar maximum dry working pressure
- Available with channel or wall mounted frame options for easy installation

Performance

- Flow rates up to 1277 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
7-tooth	11 mm	Hardened alloy steel
11-tooth	8 mm	Hardened alloy steel
17-tooth Wipes Ready®	11 mm	Hardened alloy steel



Muffin Monster motor assembly

- 2.2 kW standard, 4.0 kW optional
- Optional explosion proof and immersible motors 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

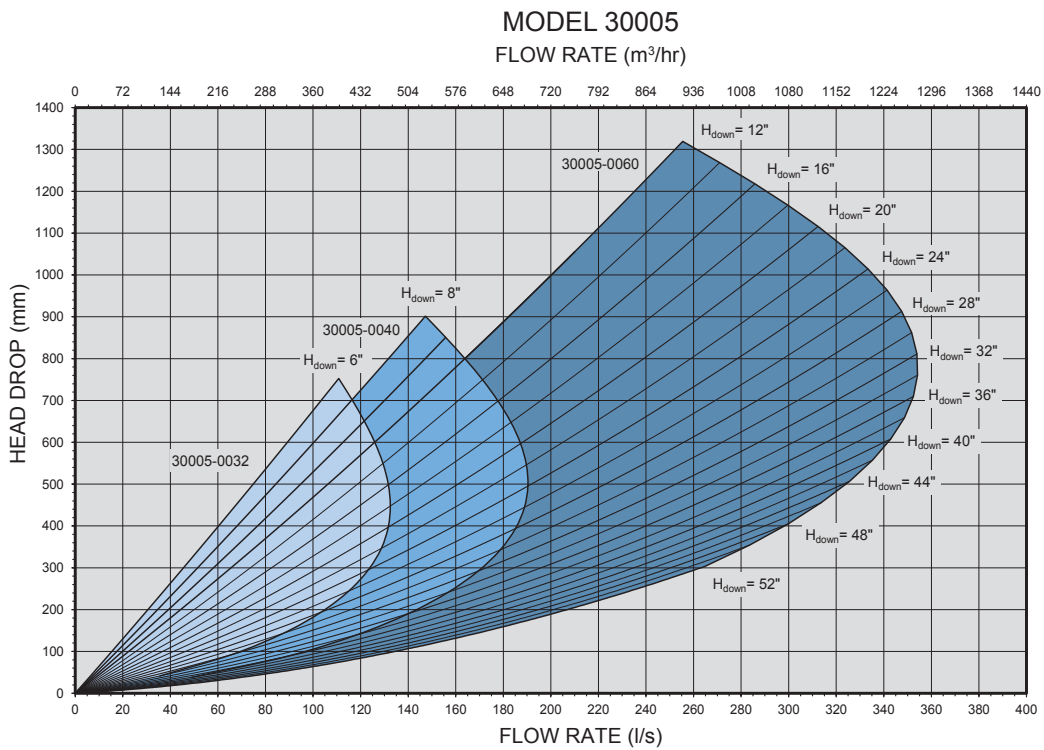
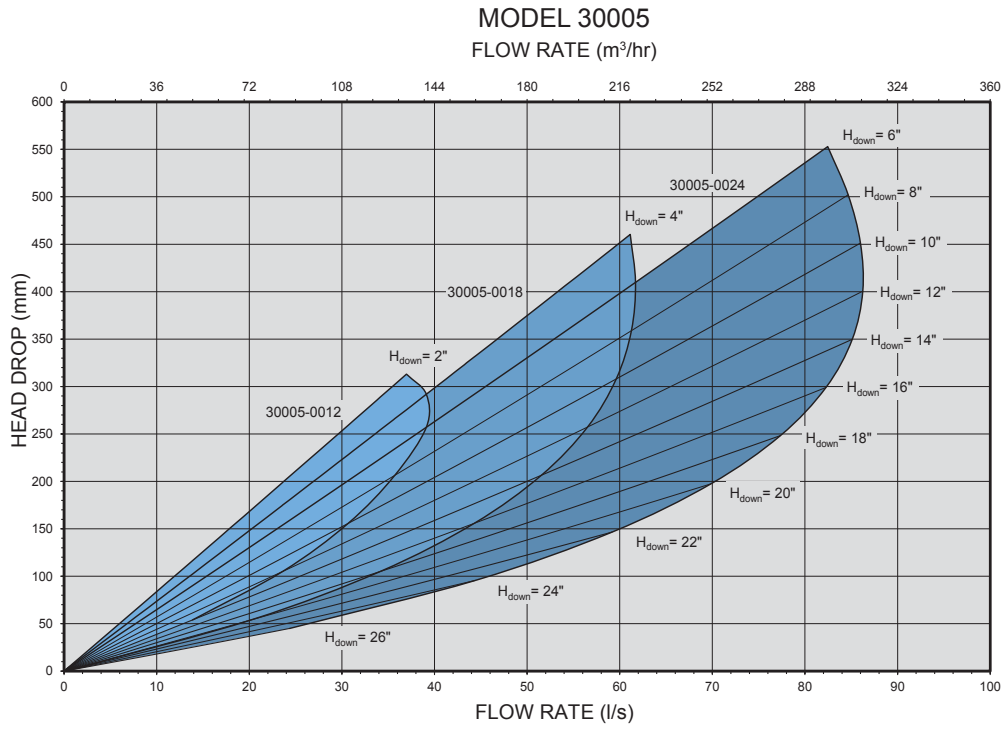
Muffin Monster grinder materials

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

For guidance in selecting a 30005 Muffin Monster, please contact Qmax Pumping.

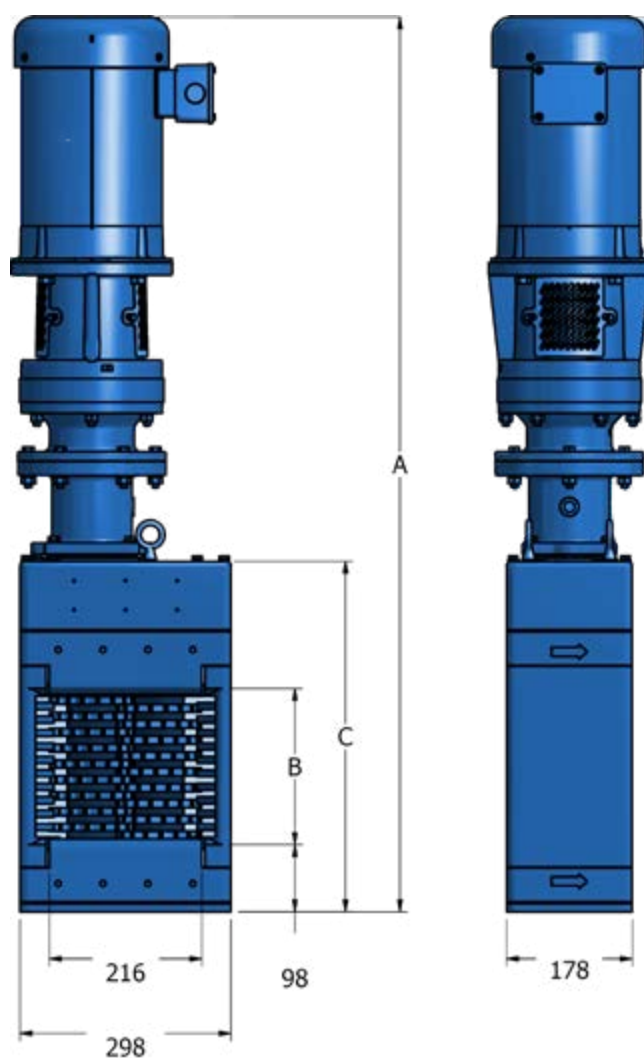


Performance curves



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	
30005-0012	141	290	1307	1411	305	600	186
30005-0018	223	405	1456	1560	457	749	211
30005-0024	311	405	1602	1706	609	895	236
30005-0032	477	445	1799	1903	813	1092	263
30005-0040	686	495	2002	2106	1016	1295	295
30005-0060	1277	760	2474	2720	1524	1813	383

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 4.0 kW motor.

30005 Muffin Monster grinder model coding

Product family	Solids reduction sewage grinder	Q																																										
Grinder family	30K Muffin Monster		3																																									
Grinder configuration	New unit with motor (specified separately)			2																																								
	Monster Renew unit				E																																							
	Monster Renew unit with spool					F																																						
Stack height	300 mm (12 inch)																			K																								
	450 mm (18 inch)																				L																							
	600 mm (24 inch)																				M																							
	800 mm (32 inch)																					N																						
	1000 mm (40 inch)																					R																						
	1500 mm (60 inch)																						W																					
Flange information	Not applicable										X	X																																
Cutter material	Alloy steel																					1																						
Cutter	7-tooth, 11 mm thick																						C	4																				
	11-tooth, 8 mm thick																							F	3																			
	17-tooth Wipes Ready®, 11 mm thick																								W	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:	30005-0024 with 11 tooth cutter	Q	3	2	M	X	X	1	F	3	S	V	X	X	S																													

Muffin Monster motor assembly

Power	Voltage	Protection type	Motor model code
2.2 kW TEFC	400V, 3-phase, 50 Hz	IP55 (standard)	QD1435B2M
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
4.0 kW TEFC	400V, 3-phase, 50 Hz	IP55 (standard)	QE1435B2M
4.0 kW TEFC	400V, 3-phase, 50 Hz	IP55 for ATEX (Ex d IIC T4)	QE2435B2M
4.0 kW Immersible	400V, 3-phase, 50 Hz	IP68 for ATEX (Ex de IIB T4)	QE3435B1M

Muffin Monster controller

Grinder motor type	Model code for IP65 control panel enclosure	
	Powder coated mild steel material	Stainless steel material
2.2 kW IP55	QL1P45XXX	QL1S45XXX
2.2 kW IP68	QL2P45XXX	QL2S45XXX
4.0 kW IP55	QM1P45XXX	QM1S45XXX
4.0 kW IP68	QM2P45XXX	QM2S 45XXX



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