

Grinder - CMD Channel Monster® - Open channel series

SULZER

The CMD Channel Monster protects pumps and other sensitive equipment by capturing and grinding the toughest wastewater solids in high-flow systems. It utilizes a rotating drum to capture solids and direct them to a powerful, dual-shafted, slow speed, high-torque grinder designed to shred the tough solids that typically cause sewer problems.

Construction

- Open channel configuration
- Grinder cutter stack heights from 450 mm to 1500 mm
- Hardened alloy steel cutters (standard), 120 mm diameter
- Ductile iron housings
- Stainless steel drum with 12 mm perforations, 254 mm diameter
- 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 for easy installation

Performance

- Flow rates up to 1590 m³/hr

Applications

- Pump stations
- Collection systems
- Headworks at wastewater treatment
- Private facility discharge to municipal sewer system
- Prison sewage system protection

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

Channel 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



Channel Monster motor assembly

- Single 4.0 kW motor powers grinder stack and drum
- Optional explosion proof and immersible motors available
- 25:1 reducer, cycloidal design

Channel 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

Channel Monster controller

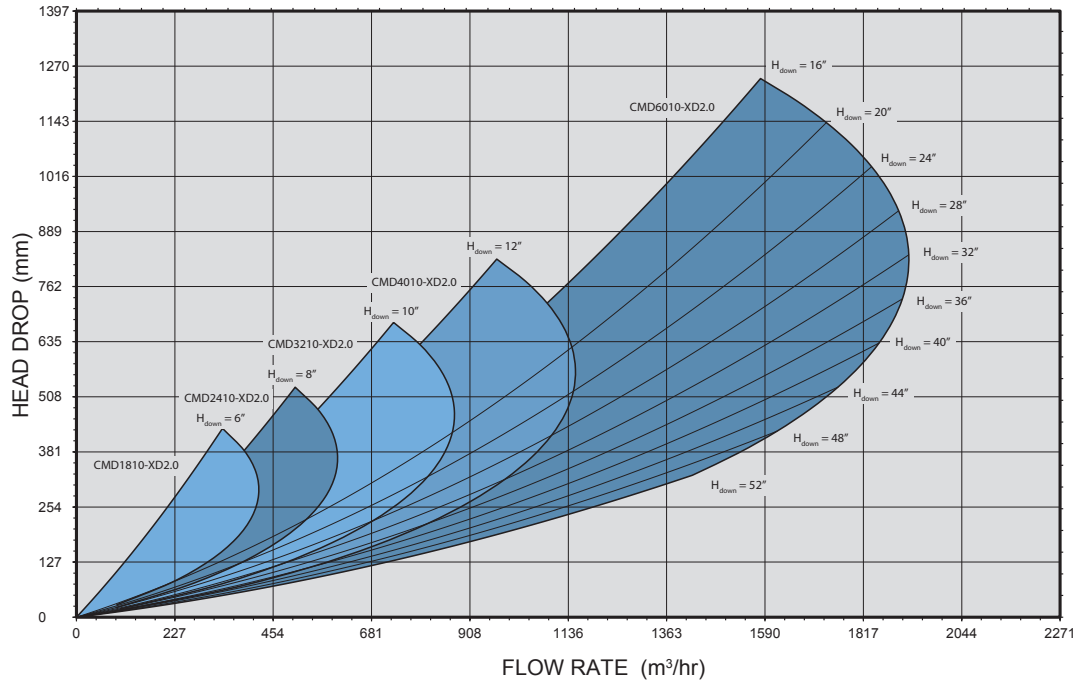
- Ensures maximum grinding ability with minimum stoppage
- Designed and programmed for specified motor

Channel Monster grinder materials

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

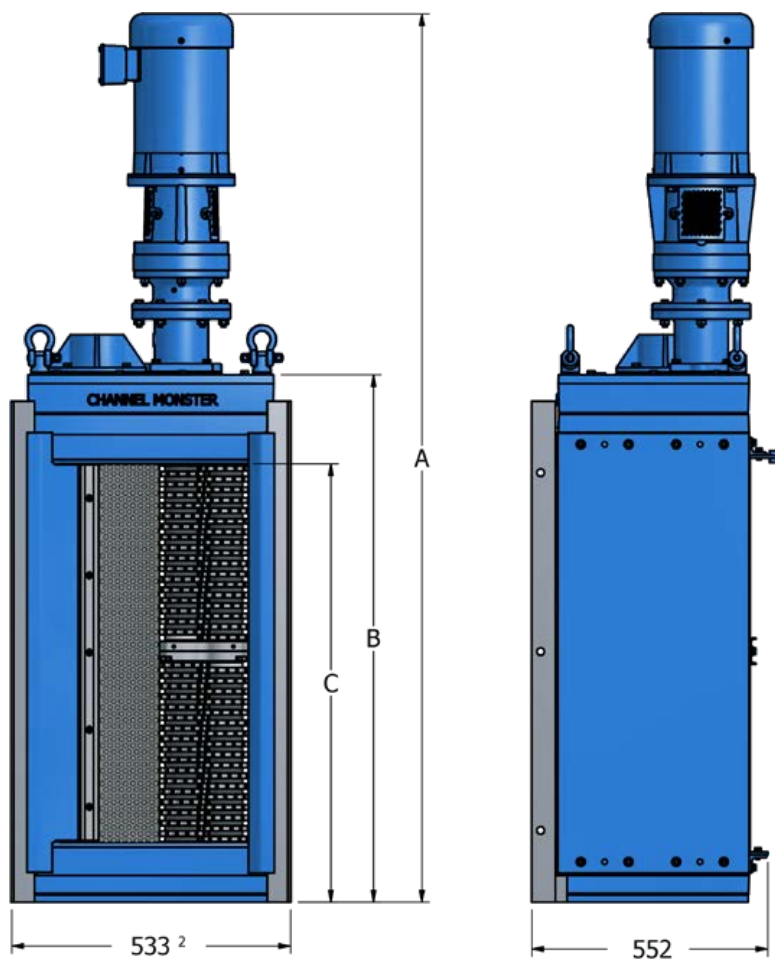
For guidance in selecting a CMD Channel Monster, please contact Sulzer.

Performance curves



mm = head drop. m³/hr = capacity (raw sewage). H_{down} = downstream head

Dimensions (mm)



Single drum model	A ¹ - mm	B - mm	C - mm	Max flow - m ³ /hr	Approximate net weight ¹ - kg
CMD1810-XDS2.0	1538	775	578	420	323
CMD2410-XDS2.0	1681	918	733	584	563
CMD3210-XDS2.0	1881	1118	933	820	576
CMD4010-XDS2.0	2081	1318	1130	1057	633
CMD6010-XDS2.0	2581	1835	1648	1590	778

1. Based on use of TEFC motor.

2. For ideal channel construction width add 50 mm.

