# Grinder -CDD Channel Monster® -Open channel series

The CDD Channel Monster protects pumps and other sensitive equipment by capturing and grinding the toughest wastewater solids in high-flow systems. It utilizes two rotating drums 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 drums 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 2775 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

#### 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 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

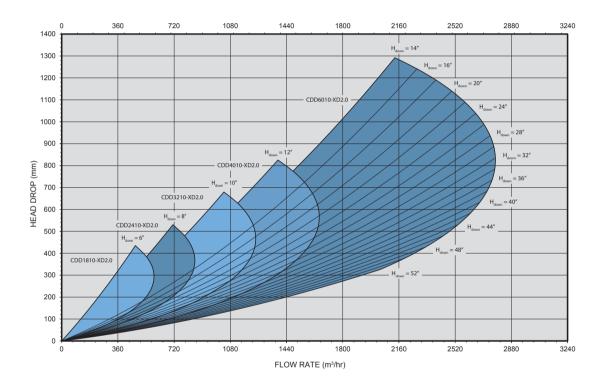
#### **Channel Monster grinder cutters**

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

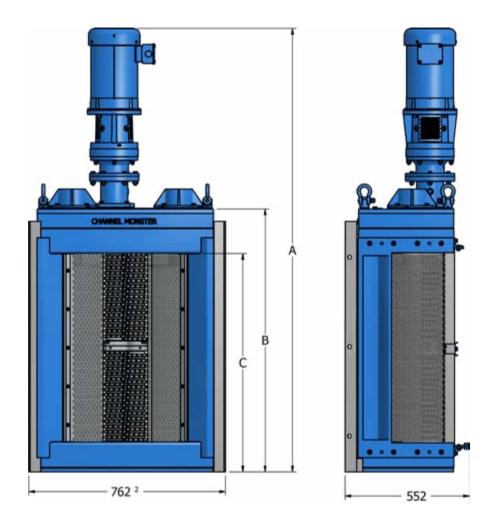
#### **Channel Monster grinder materials**

Part	Standard
Housings	Ductile Iron
Cutters	Hardened alloy steel
Drums	304L stainless steel
Shafts	Hardened alloy steel
Mechanical seals	Tungsten carbide faces
Gaskets	Viton

## Performance curves



## Dimensions (mm)



Dual drum Model	A ¹ - mm	B - mm	C - mm	Max flow - m³/hr	Approximate Net Weight <sup>1</sup> - kg
CDD1810-XDS2.0	1538	775	578	591	626
CDD2410-XDS2.0	1681	918	733	852	667
CDD3210-XDS2.0	1881	1118	933	1243	701
CDD4010-XDS2.0	2081	1318	1130	1650	735
CDD6010-XDS2.0	2599	1835	1648	2775	837

<sup>1.</sup> Based on use of TEFC motor.

<sup>2.</sup> For ideal channel construction width add 50 mm.

## **CDD Channel Monster grinder model coding**

Product family	Solids reduction sewage grinder	Q													
Grinder family	CDD double drum Channel Monster		D												
	New unit with motor (specified separately)			2											
Grinder configuration	Monster Renew unit			Е											
	Monster Renew unit with spool			F											
	450 mm (18 inch)				L										
	600 mm (24 inch)				M										
Cutter stack height	800 mm (32 inch)				N										
	1000 mm (40 inch)				R										
	1500 mm (60 inch)				W										
Flange information	Not applicable					Х	Х								
Cutter material	Alloy steel							1							
	7-tooth, 11 mm thick								С	4					
Cutter	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											٧			
Drum diameter	254 mm (10 inches)												1		
Drum information	12 mm perforated, 304L stainless steel													В	
Drive configuration	Single drive														S
Example:	CDD3210-XDS2.0 with 17-tooth Wipes Ready cutters	Q	D	2	N	Х	Х	1	W	4	s	٧	1	В	s

## **Channel Monster motor assembly**

Power	Voltage	Protection type	Motor model code
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

## **Channel Monster controller**

Cuin day matay tuna	Model code for IP65 control panel enclosure				
Grinder motor type	Powder coated mild steel material	Stainless steel material			
4.0 kW IP55	QM1P45XXX	QM1S45XXX			
4.0 kW IP68	QM2P45XXX	QM2S45XXX			