

Channel Monster® Open channel grinders



Main applications

The Channel Monster® sewage grinders are designed to capture and grind down the toughest wastewater solids in high-flow systems such as:

- Pump stations where tough solids need to be ground up
- High flows at the plant's headworks

Wipes Ready® technology

Channel Monster sewage grinders are available with the unique Wipes Ready suite of technologies. It was designed to capture all wipes in the waste stream and shred them into small pieces that will not reweave into a ragball in sewage systems.

The Wipes Ready technologies applied in Channel Monster sewage grinders are:

- Wipes Ready cutters* – A combination of serrated cutters and knurled spacers cuts wipes in two directions. The result is smaller particles that cannot reweave downstream.
- Delta P side rails* – Direct solids into the cutters without sacrificing flow rate and prevent debris build-up in the grinder.
- Optimized cut control (OCC)* – The OCC gear ratio optimizes shaft speeds to enhance the cutting action and cleaning of the cutters, which in turn improves the performance and life of the grinder.
- Perforated drums – Prevents the bypass of wipes while maintaining a high flow rate.

Please note that different Channel Monster models feature different Wipes Ready options. For a complete overview, see page 6.

* Patent pending





Features and benefits

Dual-shafted grinder

- Proven low-speed, high-torque dual shafted grinding which can shred the toughest solids
- Grinds debris smaller than single-shafted machines

High-flow screening drums

- High-flow screening drums to prevent bypass of unshredded solids without compromising flow
- Stainless steel 12 mm perforated drums

Automated monitoring and controls

- Protect pumps and other critical equipment from costly clogs and damage from tough solids
- Auto load sensing reduce interrupts and protects the system from damage
- Adaptive to custom requirements and plant SCADA systems
- Stores operational data

Wipes Ready® technology

- Wipes Ready technology available which prevents materials from forming long strips and reweaving in the waste stream

Lower operating cost

- Clear pipes and pumps means shorter pump run cycles and lower electrical costs

The Channel Monster® range

Channel Monster sewage grinders represent the best-in-class technology for wastewater solids reduction. The patented Channel Monster uses rotating screening drums to capture solids and direct them into our proven dual-shafted grinder. The result is a high-flow capacity system that can handle typical solids loading as well as tougher solids like wood and occasional rocks.

Channel Monster grinders are available in a single or dual drum model.

Materials of construction

Rotating drum screen: stainless steel

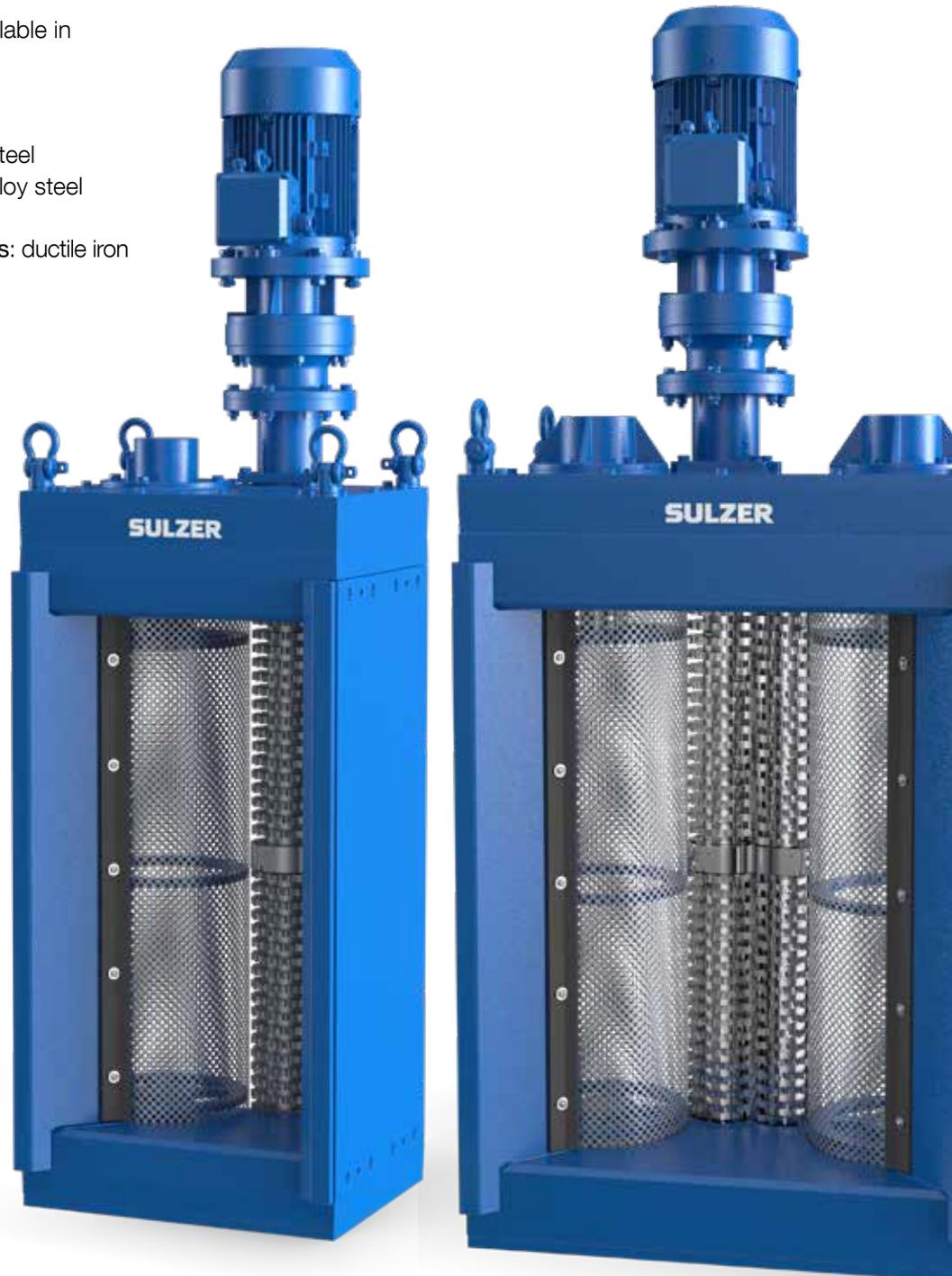
Cutters and spacers: hardened alloy steel

Shafts: hardened hexagonal steel

End housings, covers and side rails: ductile iron

Seal faces: tungsten carbide

Channel frame: stainless steel



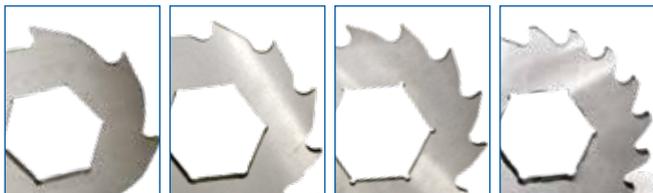
Operational data

Single drums models	Unit height, including motor (IEC IP55 motor) mm	Unit height, grinder only mm	Unit depth, min mm	Channel width, min mm	Max flow m ³ /h	Appr net weight (IEC IP55 motor) kg
CMD1810-XDS2.0	1'538	775	552	533	421	323
CMD2410-XDS2.0	1'681	918	552	533	603	563
CMD3210-XDS2.0	1'881	1'118	552	533	873	576
CMD4010-XDS2.0	2'081	1'318	552	533	1'152	633
CMD6010-XDS2.0	2'598	1'835	552	533	1'922	778

Dual drums models	Unit height, including motor (IEC IP55 motor) mm	Unit height, grinder only mm	Unit depth, min mm	Channel width, min mm	Max flow m ³ /h	Appr net weight (IEC IP55 motor) kg
CDD1810-XDS2.0	1'538	775	552	762	591	626
CDD2410-XDS2.0	1'681	918	552	762	852	667
CDD3210-XDS2.0	1'881	1'118	552	762	1'243	701
CDD4010-XDS2.0	2'081	1'318	552	762	1'650	735
CDD6010-XDS2.0	2'598	1'835	552	762	2'775	837

Options

To extend the performance of your Channel Monster®, we offer a wide range of options. For information about which options are available for each of our Channel Monster sewage grinders, please visit www.sulzer.com



Cutters

- 7, 11, 13 and 17* tooth options

* Wipes Ready® serrated cutters



Motors

- IP55 TEFC motor, standard
- IP55 TEFC motor for ATEX: (Ex d IIC T4), optional
- IP68 immersible motor ATEX: (Ex de IIB T4), optional



Screening drums

- 12 mm perforated drums
Material: stainless steel



Smart controller

- Load-sensing control system automatically reverses to clear jams
- Powder-coated mild steel or stainless steel IP65 enclosures

Custom wet well frames

- Stainless steel guide rails make Channel Monster installation and retrieval simple and quick, even in deep or narrow pump stations
- Frames include choice of stainless steel

Overflow bar screens

- Stainless steel bars are attached to frame or sub-channel and provide additional overflow capacity

Wipes Ready® feature availability

	CMD-XD 2.0 single drum Channel Monster	CDD-XD 2.0 double drum Channel Monster
17 tooth Wipes Ready cutters*	Optional	Optional
Delta P side rails*	•	
Optimized cut control*	•	•
12 mm perforated drums	•	•

* Patent pending

We do what we say



Operational excellence

We continuously strive to be faster and better.



Customer partnership

Together, we win.

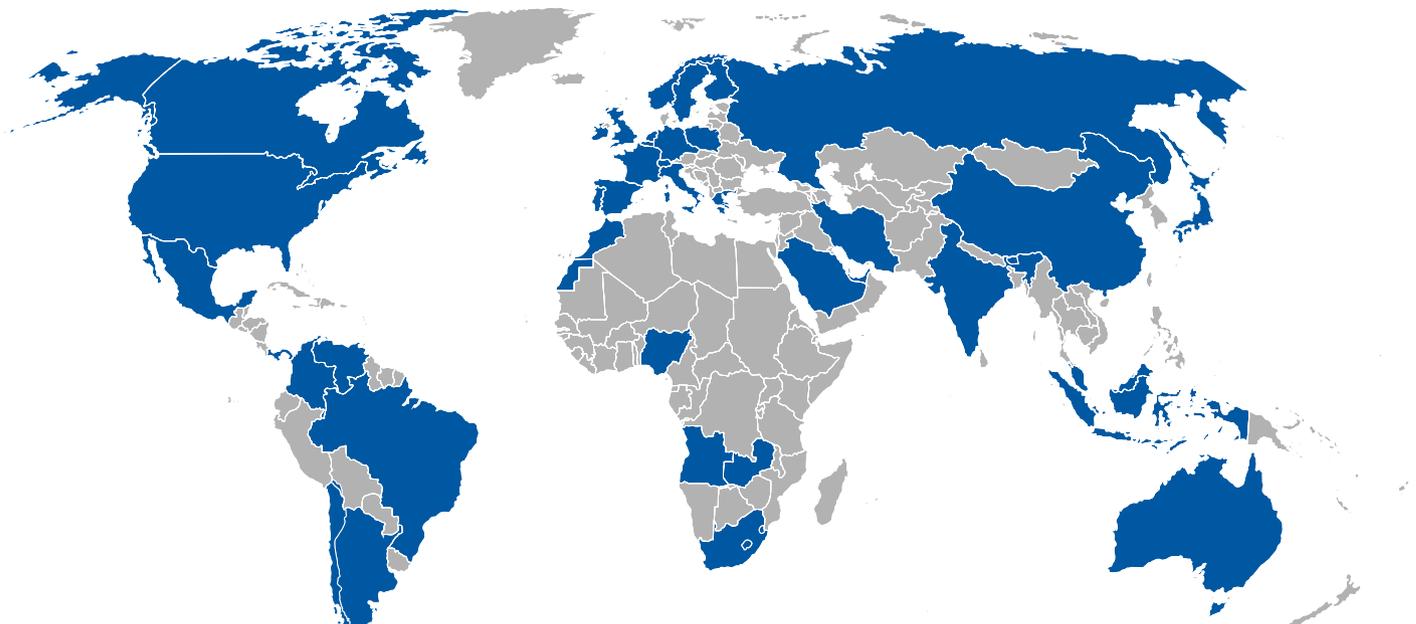


Committed people

We build on the strengths and diversity of our people.

A global specialist at your doorstep

Sulzer serves clients worldwide through a network of over 150 production and service sites and has a strong footprint in emerging markets.





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