

# 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 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
- 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

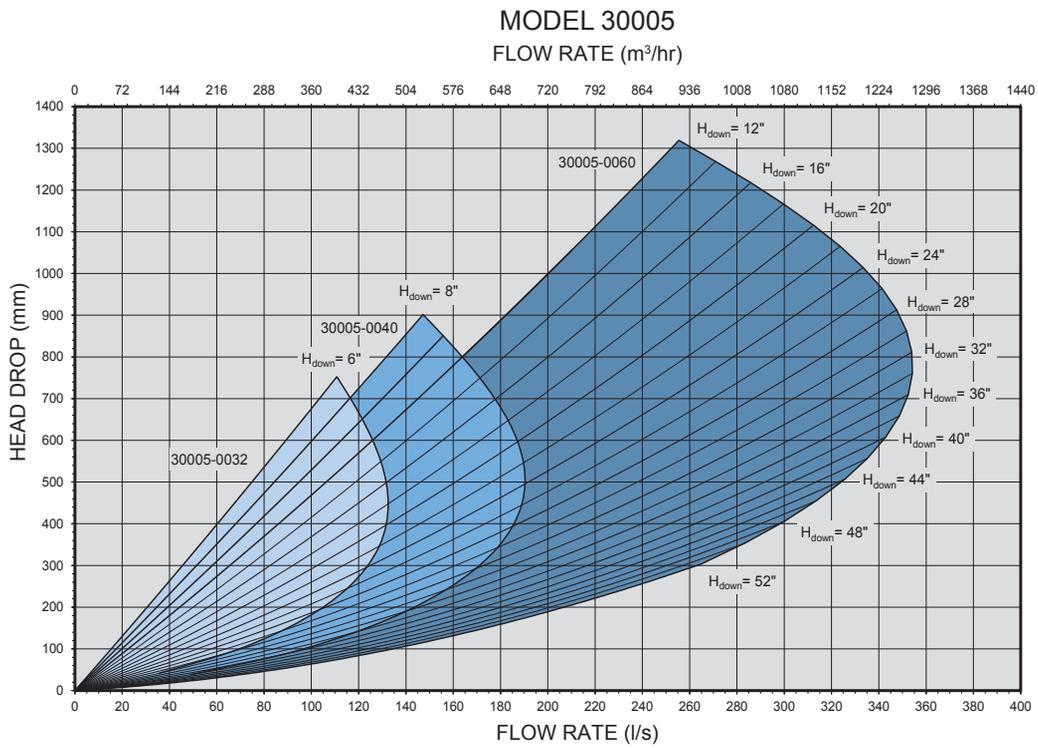
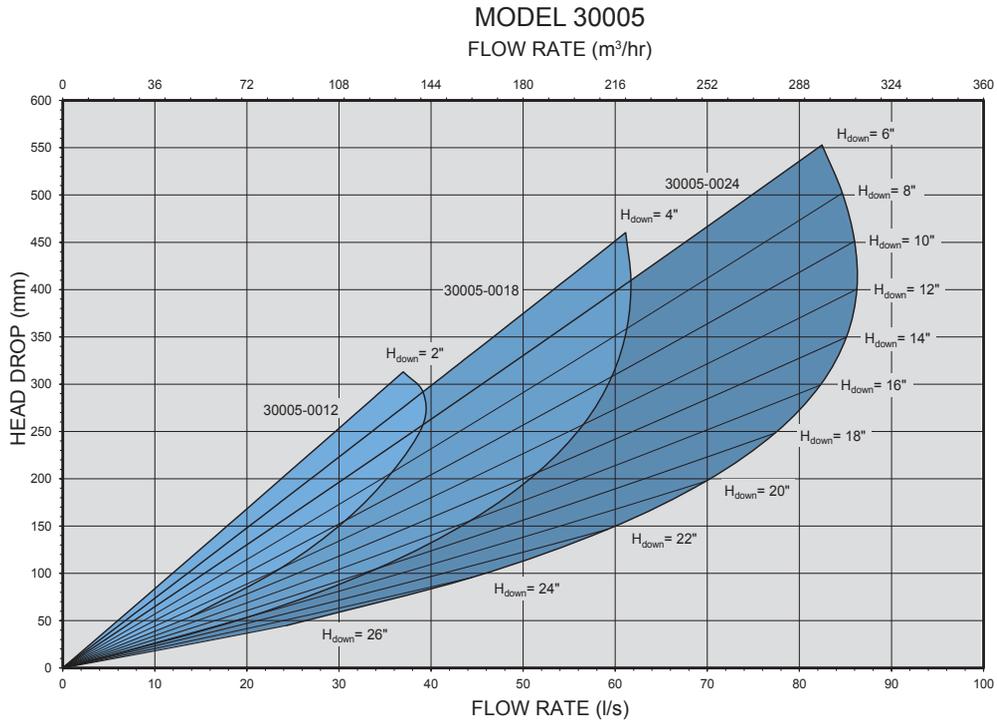
- Ensures maximum grinding ability with minimum stoppage
- Designed and programmed for specified motor

## Muffin Monster grinder materials

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

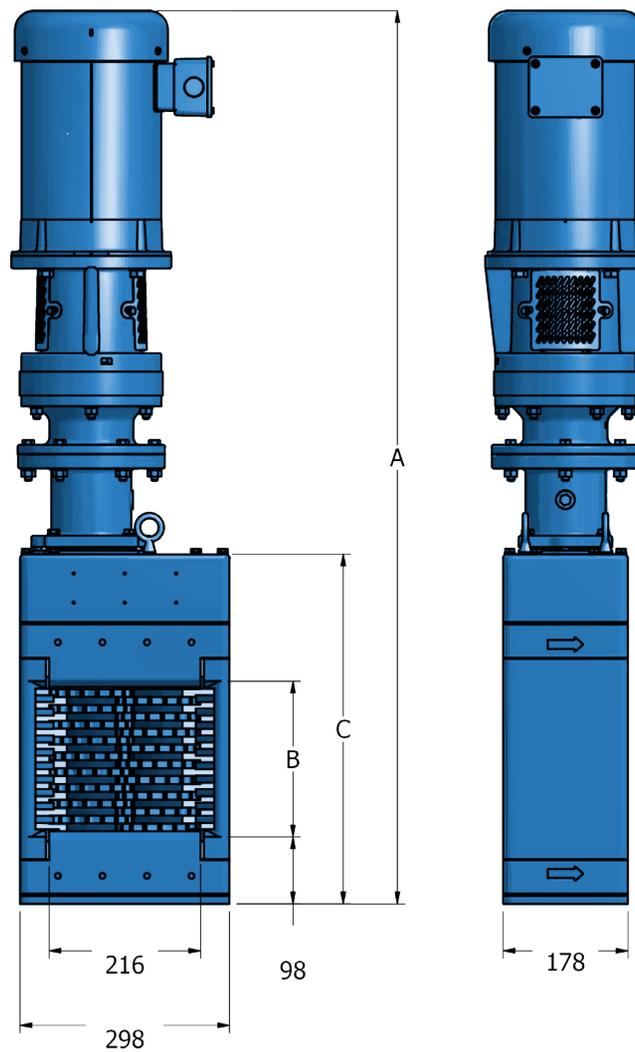
For guidance in selecting a 30005 Muffin Monster, please contact Sulzer.

Performance curves



$H_{down}$  = downstream head

## Dimensions (mm)



| Open channel model | Flow rate <sup>1</sup><br>- m <sup>3</sup> /hr | Head drop<br>- mm | Standard dimensions <sup>2</sup><br>- mm |          |      |      | Approximate net weight<br>- 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.

