



Macho Monster

Overview

Troublesome solids are now easier than ever to reduce with the Muffin Monster dual-shafted grinder. Its low speed, high-torque design shreds tough solids that typically cause sewer problems. With over 30,000 installations the Muffin Monster is legendary for protecting pumps and keeping the wastewater flowing.

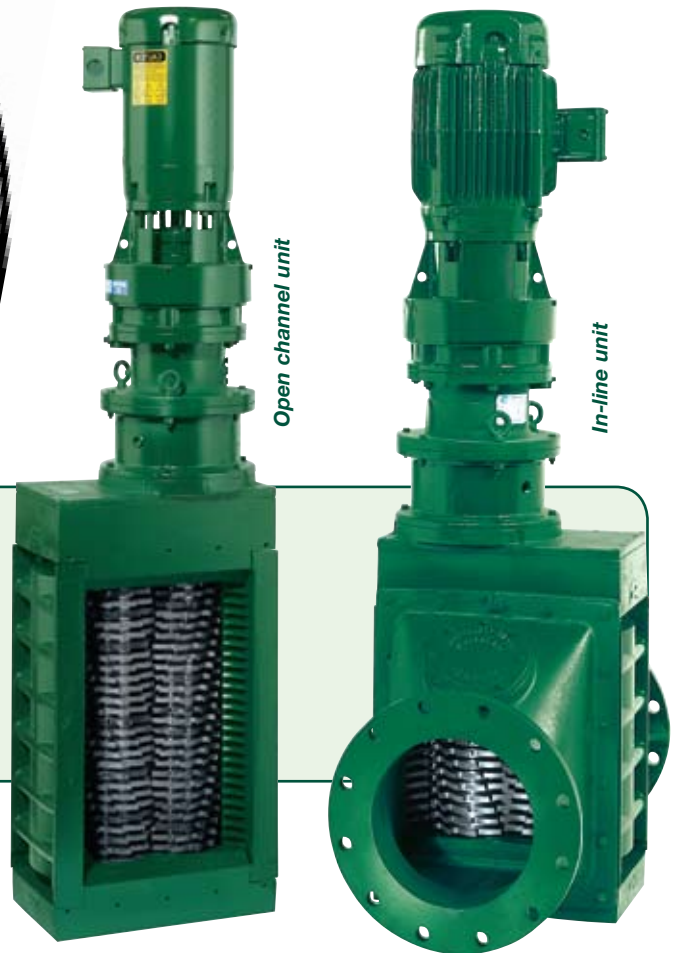
For big solids reduction projects the Macho Monster has the power to keep up with huge slugs of material. It utilizes larger cutters, shafts and motors to cut through the toughest and most troublesome solids.



In-line Macho Monsters



In-channel Macho Monster



Features & Benefits

Dual Shafted Grinder

- Capable of grinding a wider variety of solids than single shafted machines or macerators
- High torque allows the grinder to handle rocks, sticks, clothing, plastics, bedding and more without jamming

Ease and Flexibility of Installation

- Adapts to existing pipeline or channel applications with little or no modification to piping or channel
- In-line unit incorporates a quick-change cutter cartridge

Cartridge Seal Assembly

- High pressure capability – 6 bar
- No seal flush required and no packing gland to adjust

High-Flow Side Rails

- Increases flow rate and decreases head loss
- Deflects solids into the cutting chamber

Compact, Efficient Design

- Cutter and reducer design allows the use of small, energy efficient motors – 2.2 to 7.5kW
- Compact units fit in small spaces

Automated PLC Monitoring and Controls

- Auto load sensing and reversing reduces motor trips, protects system and eliminates need for manual check-ups

*All units Atex certified Grp11 cat 2



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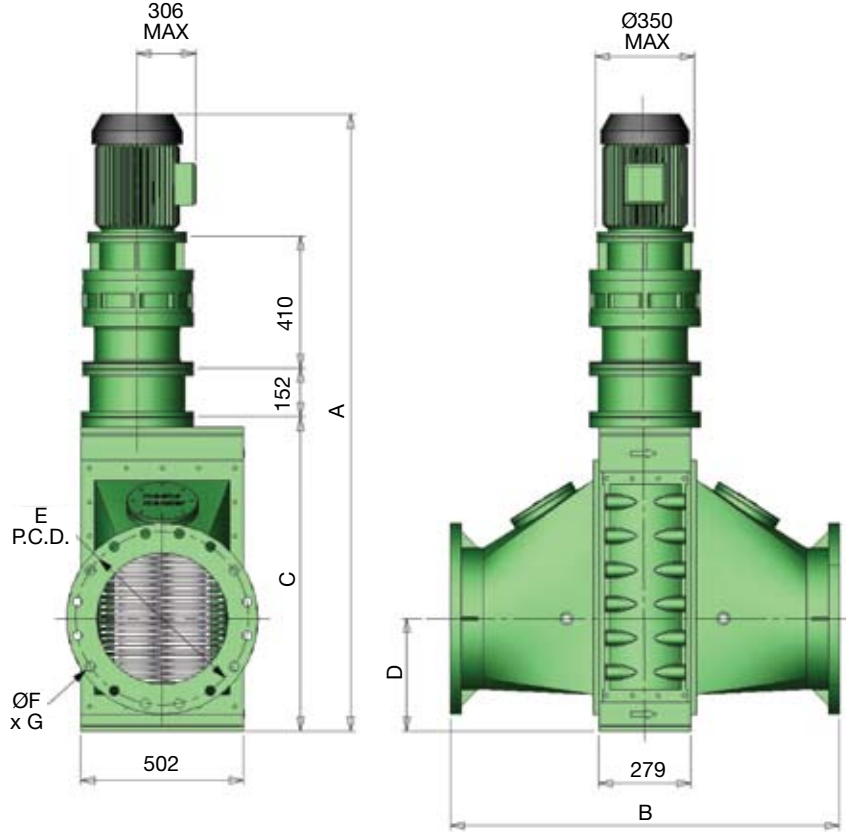
Model 40000

Specifications: 64mm hex shafts; 7.5 kW motor standard with 5.5 kW optional; 35:1 reducer; tungsten carbide face seal cartridges

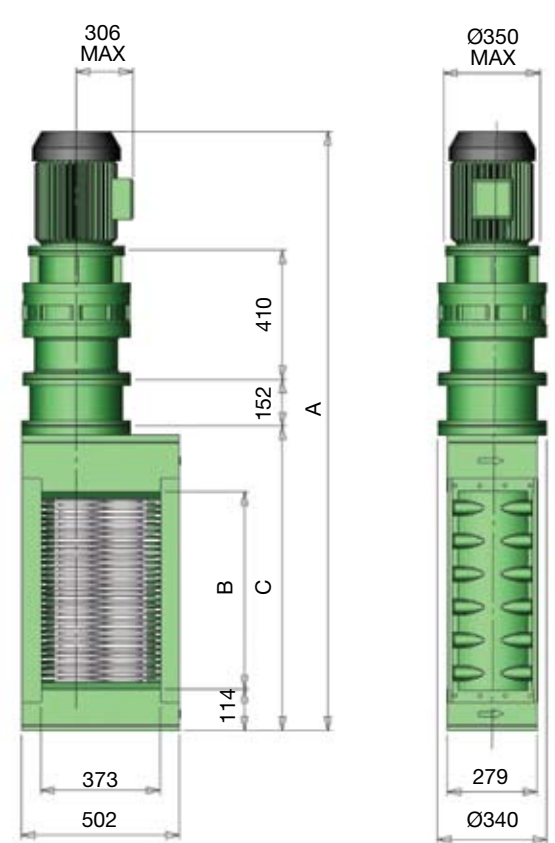
Cutter size: 190mm diameter

Seals-Max. working pressure: up to 6.0 Bar

**Model 40002
In-Line Configuration**



**Model 40000
Open Channel Configuration**



Performance Capability – Open Channel Configuration

Model	Flow Rate m ³ /h	Head Drop mm	Net Weight Approx. kg	Maximum Dimensions - mm			
				A (IP55)	A (IP68)	B	C
40000-0018	204	203	533	1704	1816	457	768
40000-0024	341	406	619	1882	1994	610	946
40000-0032	477	457	708	2050	2162	813	1114

Flow based on optimum channel conditions • Consult factory for analysis of application • Drive dimensions are a maximum based on a unit with a 7.5 kW drive • Extended drive shafts are available on request

Performance Capability – In-Line Configuration

Model	Flow Rate m ³ /hr	Pipeline Size-mm	Pressure Drop (Bar)	Net Wt. kg	Maximum Dimensions - mm					Flange Dim. - BS EN 1092		
					A (IP55)	A (IP68)	B	C	D	E	F	G
40002-18B300	316	300	0.24	690	1704	1815	895	768	273	410	28 (M24)	12
40002-24B300	727	300	0.08	805	1882	1994	895	946	273	410	28 (M24)	12
40002-24B400	909	400	0.12	860	1882	1994	1099	946	321	525	31 (M27)	16
40002-24B450	1152	450	0.20	950	1882	1994	1200	946	346	585	28 (M24)	20
40002-32B500	1431	500	0.25	1184	5080	2162	1302	1114	381	650	34 (M30)	20

In-Line unit typically installed prior to suction side of pump • Consult factory for analysis of application • Drive dimensions are a maximum based on a unit with a 7.5 kW drive.

Features and Options



Hardened steel cutters

Cutters

- Range of cutter options maximize grinding efficiency
- Custom: extra-hard carburized cutters, stainless steel

Custom Frames

- Frames attached to pump sump wall
- Grinder support base, subchannel, overflow bar racks and other frame configurations available

Scrapers (Open channel units)

- Fixed steel scrapers increase material throughput and help cutters clean-out faster.

High Flow Side Rails

- Slotted side frames to increase flow capability and reduce headloss
- Helps keep sand and grit in suspension
- Increased component serviceability



Custom frame

High-tech Controllers

- PLC based controllers to ensure maximum grinding ability, minimum stoppage and maximum electrical/mechanical component protection
- Optional enclosures: Eexed Zone 1 (flameproof) available on request
Note: Warranty invalid if JWCI controller or similar approved is not used

Motors

- Electric motor: 7.5 kW
- ATEX explosion proof electric motor: 7.5 kW

Extended Motor Shaft

- Longer drive shaft puts motor above the highest water level. Available in 150mm up to a maximum of 3.0m.

Hex Seal Cartridges

- High pressure capability – 6 bar
- No seal flush required and no gland packing to adjust



Extended motor shaft



Hex seal cartridge



Optional Scrapers



Exclusive: high-flow side rails



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