



# Muffin Monster®

## Family of Grinders

### Mini Monster®

For lower flows, buildings, condos and resorts the Mini Monster is a powerful grinder in a compact package. It shreds rags and trash into tiny pieces in wastewater or sludge to protect pumps and eliminate costly breakdowns and back-ups.

### Muffin Monster

The workhorse of wastewater since 1973 the Muffin Monster easily reduces troublesome solids. The dual-shaft design uses low speed, high-torque power to shred tough solids in sewage and sludge. With over 30,000 installations the Muffin Monster is the proven solution for protecting pumps and systems.

### Macho Monster

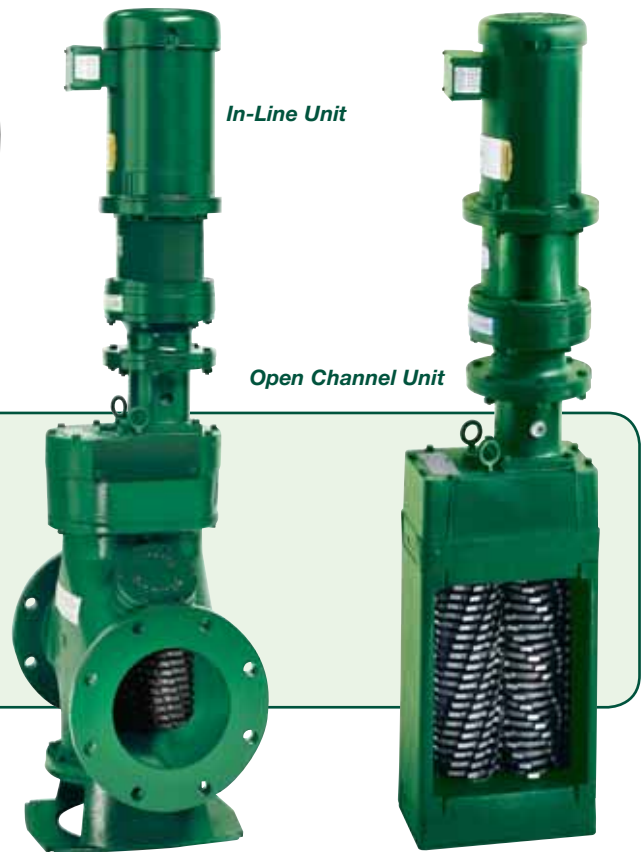
For bigger solids reduction projects the Macho Monster has the power to keep up with the flow. The 40000 model uses 190mm cutters and the 70000 model uses massive 254mm cutters to slice through difficult solids. Ideal for sludge lines, prisons, waste-to-energy and food processing.



Dual shafted grinder



Easy pump station installation with custom frames.



In-Line Unit

Open Channel Unit

## Features & Benefits

#### Dual Shafted Grinder

- Low-speed, high torque grinders handle rags, rocks, wood, clothing, plastics and other debris
- Capable of grinding a wider variety of solids than single shafted machines and macerators

#### Compact and Efficient Design

- Adapts to pipelines & channels with little or no modification
- Custom stainless steel frames allow easy installation in channels, wet wells and pump stations
- In-line Mini and Muffin Monster incorporate easy to remove cutter cartridge

#### Cartridge Seal Assembly

- High pressure capability up to 6 bar
- Runs submerged or dry with no seal flush required

#### Patented High-Flow Side Rails

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

#### Automated Monitoring and Controls

- Auto load sensing and reversals reduce interrupts and optimize the grinder's performance



**JWC**  
Environmental®

Trust Monster Quality™

www.jwce.com





# Applications

	Mini Monster	Muffin Monster	Macho Monster	Characteristics
Buildings, Resorts and Condos				Grinds up rags, cotton products and other trash frequently flushed down the toilet. Grinders are more powerful than grinder pumps and eliminate sewage pumping problems.
Pump Stations				Channel grinders can be installed on the wall of a wet well. In-line units are installed in dry pumping stations. Grinds solids to keep pumps running reliably and efficiently.
Septage / Grease				Grinds up rags, silverware, solids and trash as septage/grease are unloaded.
Sludge / Scum				Grinds up rag balls, rocks and plastics to protect sludge pumps.
Belt Press / Centrifuge				Grinds a variety of solids to protect dewatering systems from damage and makes them more efficient by homogenizing sludge prior to dewatering.
Jails / Prisons				Prevents clogs and spills. Installed in over 2,000 prisons, jails and institutional facilities.
Hospitals / Nursing Homes				Grinds up rags, pads, clothing, needles and dangerous waste to protect pumps & systems.
Food / Fish Processing				Grinds up material such as fish guts, slaughterhouse scraps, rendering material, food scraps and more. Frequently used in biogas applications to turn waste into energy.
Pulp / Paper				Installed in sludge lines, pulp systems and wastewater plants to protect pumps & pipelines.
Industrial				Used in refineries, hazardous waste processing, obsolete inventory destruction & recycling.

\* Consult factory for additional application assistance and approval.

# Photo Gallery



**Muffin Monster in-line septage grinders.**



**Muffin Monster in-line sludge grinder.**



**Macho Monster in-line sewage grinder in a jail.**



**Macho Monster in-line sludge grinders.**



**Muffin Monster grinder in a fish processing plant.**



**Muffin Monster channel grinder in a prison.**



**Muffin Monster pump station grinder and installation frame.**



**Muffin Monster pump station grinder and installation frame.**

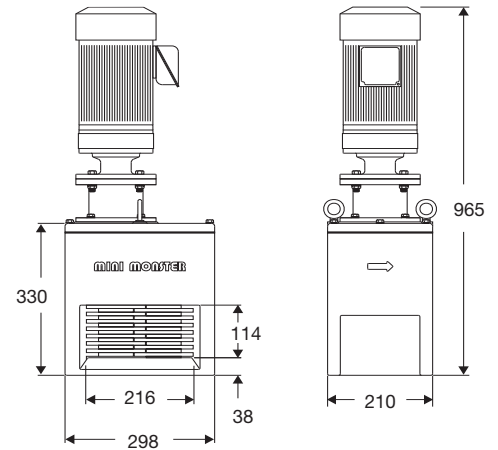


# Mini Monster

Model 20000

## Standard Specifications

Model	Motor kW	Hex Size mm	Reducer	Cutter Size mm	Max Force at Cutter Tip kN
20000	2.2	50	29:1	120	27.4



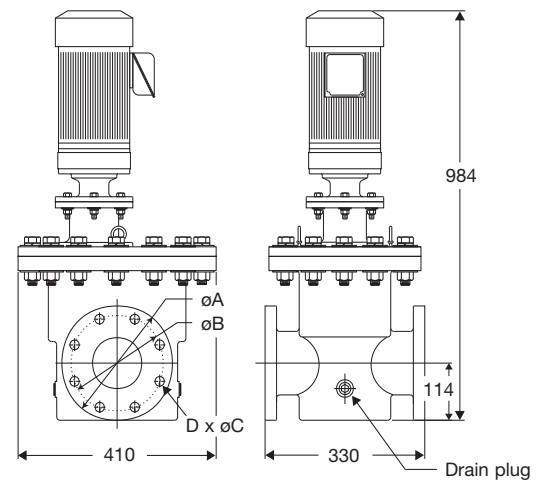
Open Channel Configuration



In-Line Unit



Open Channel Unit



In-Line Configuration

## Performance Capability

Model	Configuration	Head Drop mm	Pressure Drop bar	Max Pressure bar	Flow Rate m <sup>3</sup> /h	Approximate Net Weight kg
20002	Open channel	97	n/a	6	18	102
20000	In-line	n/a	0.07	6	60	125

\* Notes: In-Line unit typically installed prior to suction side of pump. Flow based on optimum channel conditions. Consult factory for final analysis of application.

## Exclusive Features



Removable Mini Monster cartridge



Removable Muffin Monster cartridge



Patented high-flow side rails (open channel configurations)



Exclusive hex driven, tungsten face seal cartridges



**Removable  
Cutter  
Cartridge**

# Muffin Monster

Model 30000

## Standard Specifications

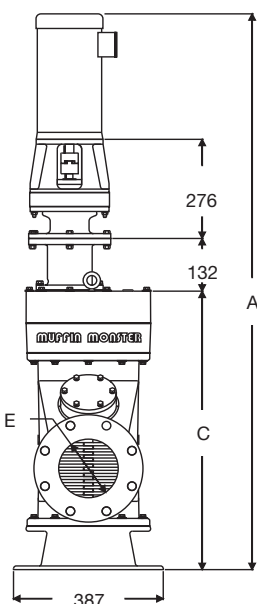
Models	Motor kW	Hex Size mm	Reducer	Cutter Size mm	Max Force at Cutter Tip kN
30004T / 30005	2.2	50	29:1	120	27.4
30004T / 30005	3.7	50	29:1	120	40.7



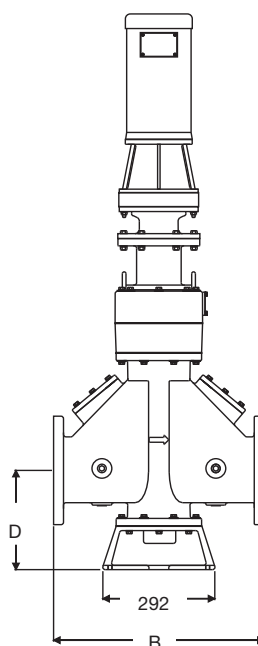
**In-Line Unit**



**Open Channel Unit**



**In-Line Configuration**



**Open Channel Configuration**

## Performance Capability – Open Channel Configuration

Model	Flow Rate m <sup>3</sup> /h	Head Drop mm	Approximate Net Weight kg	Dimensions - mm		
				A	B	C
30005-0008	76	241	168	1219	203	482
30005-0012	111	343	186	1320	305	584
30005-0018	168	444	211	1473	457	736
30005-0024	227	495	236	1600	609	889
30005-0032	334	546	263	1803	813	1092
30005-0040	454	597	295	2006	1016	1295

Flow based on optimum channel conditions • Consult factory for final analysis of application • Dimensions based on 2.2kW electrical motor drive

## Performance Capability – In-Line Configuration

Model	Flow Rate m <sup>3</sup> /h	Pipeline Size mm	Pressure Drop bars	Approx. Net Wt. kg	Dimensions - mm				
					A	B	C	D	E
30004T-1204	91	102	0.03	250	1423	483	711	206	102
30004T-1206	136	152	0.06	254	1423	534	711	232	152
30004T-1208	182	203	0.11	258	1423	584	711	254	203
30004T-2410	227	254	0.08	356	1727	686	1010	283	254
30004T-2412	273	305	0.11	367	1727	787	1010	305	305

In-Line unit typically installed prior to suction side of pump.



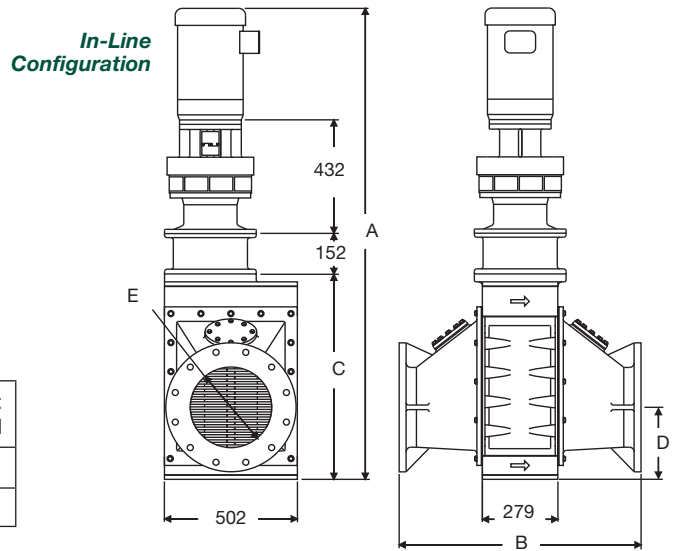
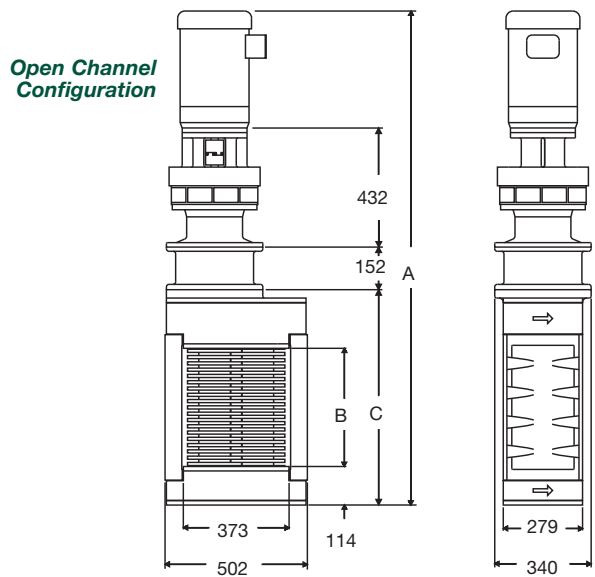
# Macho Monster

Model 40000



*In-Line Unit*

*Open Channel Unit*



**Standard Specifications**

Model	Motor kW	Hex Size mm	Reducer	Cutter Size mm	Max Force at Cutter Tip kN
40002	7.5	64	43:1	191	72
70000	37.5	102	43:1	254	183

**Performance Capability - Open Channel Configuration**

Model	Flow Rate m <sup>3</sup> /h	Head Drop mm	Approximate kg	Dimensions mm		
				A	B	C
40002-0018	204	203	533	1754	457	768
40002-0024	341	404	619	1905	609	946
40002-0032	477	457	708	1937	812	1444
70000-0040†	throughput 22 m <sup>3</sup> /h		1900	3124	1041	1499

† Typically used in material shredding applications.

**Performance Capability - In-Line Configuration**

Model	Flow Rate m <sup>3</sup> /h	Pressure Drop bar	Max Pressure bar	Approx. Net Weight kg	Dimension mm				
					A	B	C	D	E
40002-1812	500	.207	6	690	1759	895	768	273	305
40002-2412	681	.077	6	805	1937	895	946	273	305
40002-2416	795	.103	6	860	1937	1099	946	321	406
40002-2418	908	.152	6	950	1937	1200	946	346	457
40002-3220	1136	.207	6	1184	2102	1301	1114	381	508

\* Notes: In-Line unit typically installed prior to suction side of pump. Flow based on optimum channel conditions. Consult factory for final analysis of application.

# Muffin Monster Options



**Hardened steel cutters  
available in many sizes**

## Cutters

- 7, 11 and 13 tooth variations
- Special: 3-tooth fish grinding cutters
- Optional: extra-hard carburized cutters; stainless steel

## Custom Frames

- Stainless steel guide frames attach to pump station or channel walls to make installation easier
- Frame is customized to fit each site and includes: guide rails; grinder support base; subchannel; overflow bar racks and more

## High-tech Controllers

- Model PC2200 standard
- Standard enclosure: NEMA-4x fiberglass, 3 position switch and indicators
- Optional enclosures: NEMA-4x 304 stainless steel; NEMA-4x 316 stainless; NEMA-7 explosion proof



**High-tech Controllers**

## Scrapers

- Integrated steel scrapers increase throughput and help cutters clean-out faster. Improves performance of hopper fed applications.



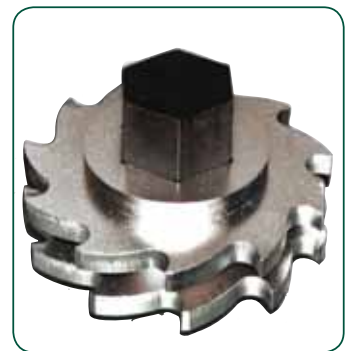
**Custom stainless steel frames**



**Scrapers (optional)**



**Optional 304 or 316 stainless steel housing and flanges.**



**Ask your Distributor for genuine Monster replacement parts.**



**Electric motor**



**Exclusive:  
JWC designed  
immersible motor**



**Hydraulic motor**

## Motors

- TEFC - IP55 - Totally enclosed fan cooled electric
- XPFC - IP68 - Explosion proof fan cooled electric
- XPNV - Exclusive electric immersible
- Available in: 2.2, 3.7, 7.5 kW

## Hydraulic Power Packs

- Available in 3.7, 7.5, 11 kW

## Extended Motor Shaft

- Places motor above highest water level. Available in 150mm increments. Maximum: 3600mm

## Corrosion Resistant Grinder

- Model 30001 grinder available with 304 or 316-stainless steel housing for harsh environments.
- 17-4PH stainless steel cutters, spacers and shafts optional.
- Stainless steel flanges and/or hoppers also available.



**Extended motor shaft**



**Headquarters**  
290 Paularino Ave.  
Costa Mesa, CA 92626 USA  
Phone: +949-833-3888  
Fax: +949-833-8858  
jwce@jwce.com



[www.jwce.com](http://www.jwce.com)