



Muffin Monster®

Family of Grinders

Sludge Monster®

The Sludge Monster is a compact grinder, tough on solids in sludge applications. It fits into areas with limited space while providing the necessary power for downstream protection. This simplified design makes it a best cost solution for sludge pumping problems.

Mini Monster®

For low flow, buildings and small pump stations. The Mini Monster is a reliable grinder in a small package. It grinds wastewater to eliminate costly pump breakdowns and back-ups.

Muffin Monster®

Troublesome solids are now easier than ever to reduce with the Muffin Monster dual-shafted grinder. Its slow speed, high-torque design shreds tough solids that typically cause sewer problems. With over 35,000 installations the Muffin Monster is legendary for protecting pumps and keeping wastewater flowing.

Macho Monster

Available in two sizes: model 40000 for large in-line or in-channel grinding projects; or the mammoth 70000 grinder for high-flow, hopper fed wastewater or industrial applications.



Dual shafted grinder



Easy pump station installation with custom frames.



Features & Benefits

Dual Shafted Grinder

- Slow-speed, high torque grinders handle rags, rocks, wood, wipes, 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 or 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 90 PSI (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





Photo Gallery



Muffin Monster grinder in a pump station



Muffin Monster with immersible motor



Muffin Monster pump station grinder and installation frame



Muffin Monster pump station grinder and installation frame



Muffin Monster Manhole at a correctional facility



Muffin Monster channel grinder in a prison



Macho Monster in-line sewage grinder in a jail



Muffin Monster in-line grinder in a prison



Muffin Monster in-line grinders in a pump station



Muffin Monster in-line sludge grinder



Muffin Monster in-line sludge grinders



Macho Monster in-line sludge grinders



Removable Mini Monster cartridge



Removable Muffin Monster cartridge



Patented high-flow side rails (open channel configurations)



Hex Driven Tungsten Face Seal Cartridges



Sludge Monster

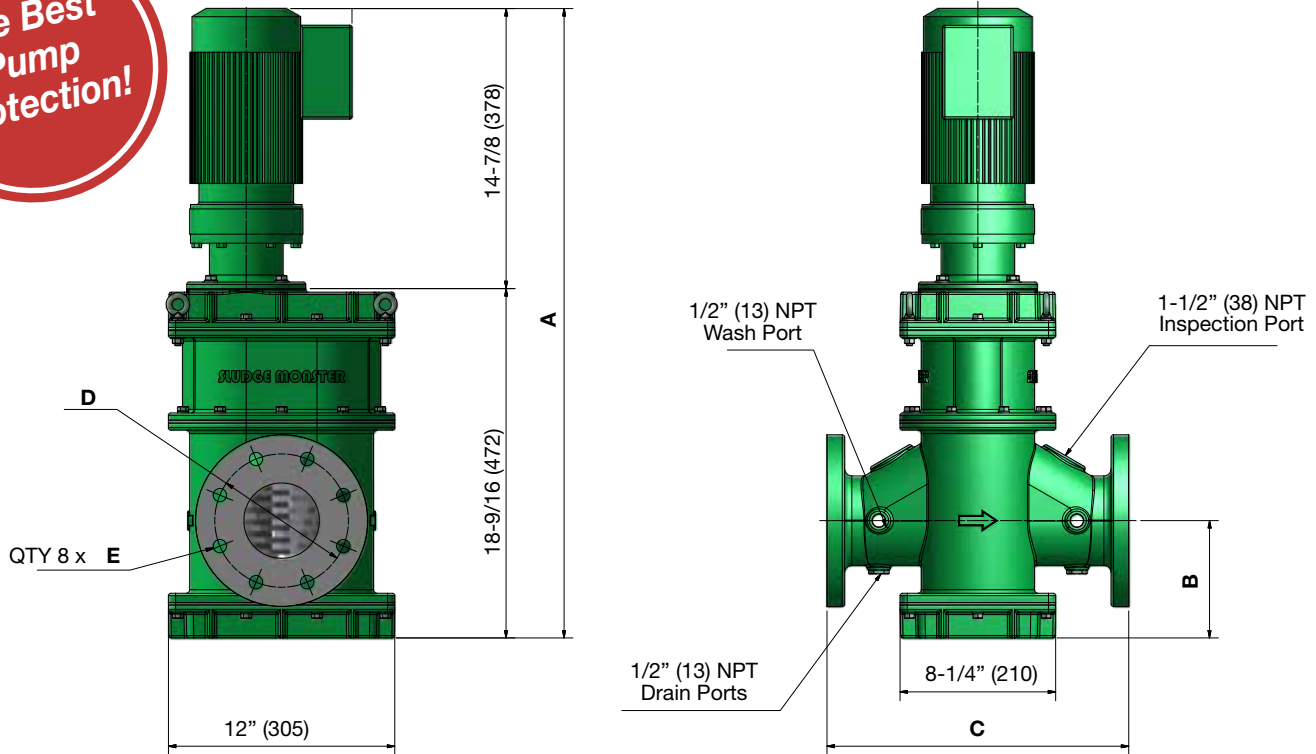
Model 10000

In-Line Configuration

Specifications: 2" (50 mm) hex shafts; 2 HP (1.5 kW) gear motor standard; 29:1 reducer; tungsten carbide face seal cartridges

Cutter Size: 4-3/4" (20 mm) diameter cutters

Seal max working pressure - 90 PSI (6 bar)



Performance Capability

Model	Flow Rate* GPM (m³/h)	Nom Pipeline Size- in. (mm)	Pressure Drop PSI (bar)	Standard Dimensions in. (mm)			Flange Dimensions in. (mm)		Net Weight lbs (kg)
				A	B	C	D	E	
10000-04	274 (62)	4" (100)	0.4 (0.03)	33-7/16 (850)	6-1/4 (159)	16 (406)	7-1/2 (180)	3/4 (19)	200 (91)
10000-06	550 (125)	6" (150)	1.3 (0.09)	33-7/16 (850)	7-1/4 (184)	19 (483)	9-1/2 (240)	7/8 (23)	209 (95)

* 0-2% solids In-line unit typically installed prior to suction side of the pump.

Optional Controllers

- PLC based controller to sense overload and auto reverse to prevent blockage
- TEFC 2 HP (1.5 kW) with separate reducer



Reliably Grind any Solids



Sludge Monster



Compact Design



Hardened Alloy Steel Cutter Stack



Mini Monster

Model 20000

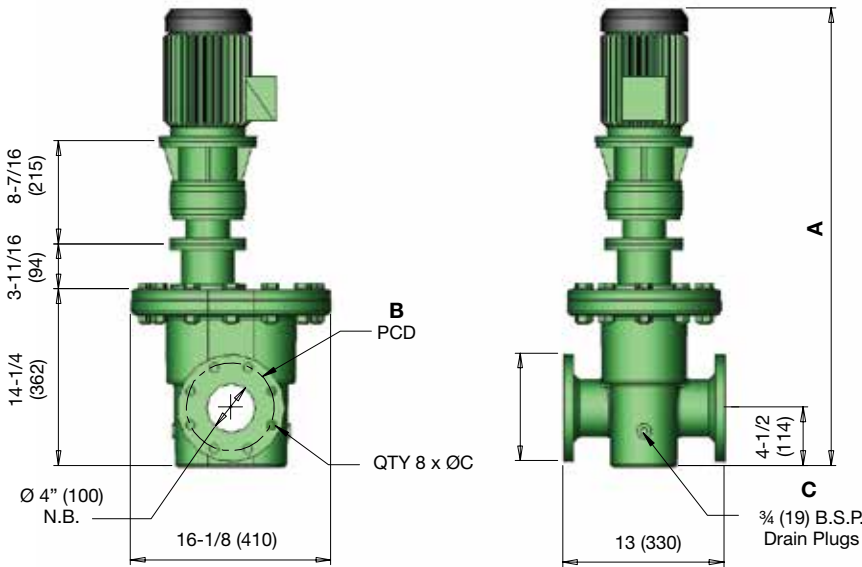
Specifications: Standard 2 HP (1.5 kW); 1 HP (0.75 kW) optional;
29:1 reducer; tungsten carbide face seal cartridges

Cutter Size: 4-3/4" (120 mm) diameter

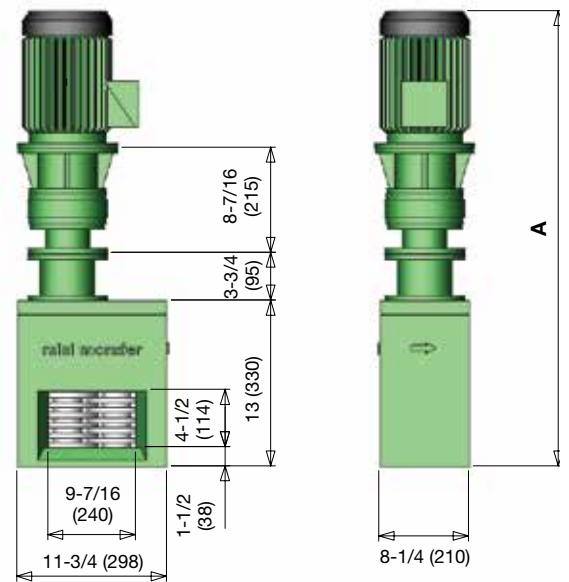
Seal max working pressure - 90 PSI (6 bar)



In-Line Configuration



Open Channel Configuration



Performance Capability – Open Channel Configuration

Model	Flow Rate GPM (m ³ /h)	Head Drop in. (mm)	Net Weight Approx. lbs (kg)	Maximum Dimensions - in. (mm)	
				A	
20002	79 (18)	3-3/20 (80)	225 (102)	38 (965)	

Flow based on optimum channel conditions • Consult factory for final analysis of application • Drive dimensions are a maximum based on a unit with a 2 HP (1.5 kW) drive • Extended drive shafts are available on request.

Performance Capability – In-Line Configuration

Model	Flow Rate GPM (m ³ /h)	Pipeline Size - in. (mm)	Pressure Drop PSI (Bar)	Net Wt. lbs (kg)	Maximum Dimensions - in. (mm)		Flange Dimensions - in. (mm)	
					A		B	C
20000-0004	265 (60)	4" (100)	1 (0.07)	275 (125)	38-3/4 (984)	7-1/2 (191)	3/4 (19)	

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 2 HP (1.5 kW) drive.



The in-line Mini Monster at work



Open Channel Mini Monster



Compact and Durable



Mini Monster installed in a pump station



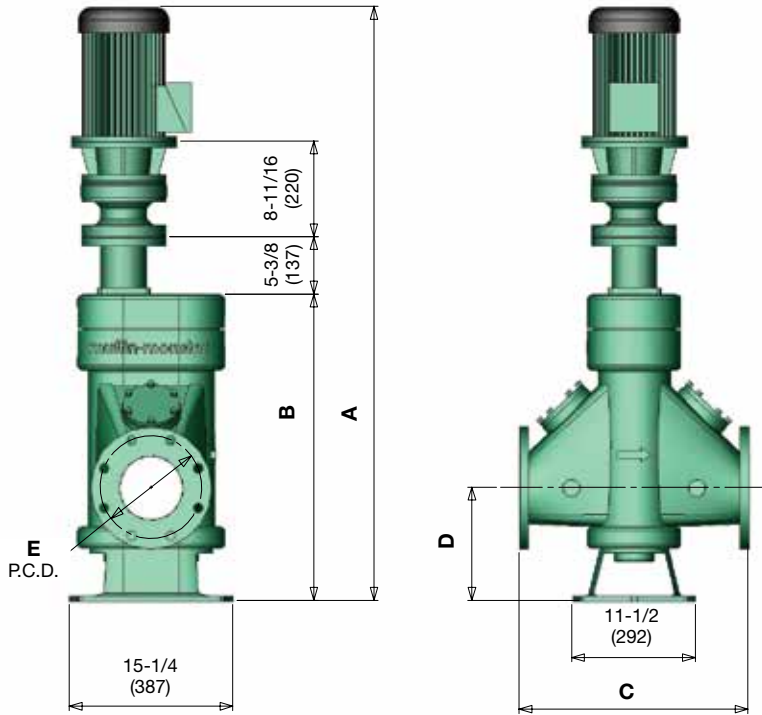
Muffin Monster

Model 30000

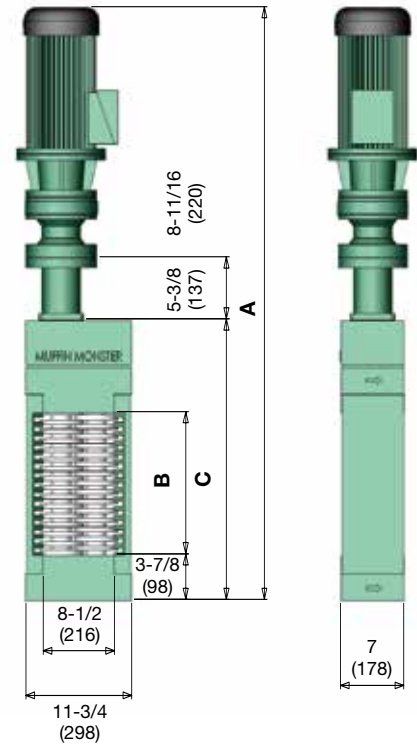
Specifications: 2" (50 mm) hex shafts; 3 HP (2.2 kW) motor standard; 29:1 reducer; tungsten carbide face seal cartridges
 Cutter Size: 4-3/4" (120 mm) diameter cutters
 Seal max working pressure - 90 PSI (6 bar)



In-Line Configuration



Open Channel Configuration



Performance Capability – Open Channel Configuration

Model	Flow Rate GPM (m ³ /h)	Head Drop in. (mm)	Net Weight Approx. lbs (kg)	Maximum Dimensions - in. (mm)		
				A	B	C
30005-0008	335 (76)	9-1/2 (241)	370 (168)	48 (1219)	8 (203)	19-1/2 (495)
30005-0012	489 (111)	13-1/2 (343)	410 (186)	52-1/8 (1320)	12 (305)	23-5/8 (600)
30005-0018	740 (168)	17-1/2 (444)	465 (211)	58 (1473)	18 (457)	29-1/2 (749)
30005-0024	1000 (227)	19-1/2 (495)	520 (236)	63-3/4 (1600)	24 (609)	35-1/4 (895)
30005-0032	1470 (334)	21-1/2 (546)	580 (263)	71-1/2 (1803)	32 (813)	43 (1092)
30005-0040	2000 (454)	23-1/2 (597)	650 (295)	79-1/2 (2006)	40 (1016)	51 (1295)

Flow based on optimum channel conditions • Consult factory for analysis of application • Drive dimensions are a maximum based on a unit with a 3 HP (2.2 kW) drive • Extended drive shafts are available on request

Performance Capability – In-Line Configuration

Model	Flow Rate GPM (m ³ /h)	Pipeline Size-in. (mm)	Pressure Drop PSI (Bar)	Net Wt. lbs (kg)	Maximum Dimensions - in. (mm)				Flange - in. (mm) E
					A	B	C	D	
30004T-1204	450 (102)	4 (100)	0.04 (0.03)	562 (255)	56-1/4 (1423)	28-1/4 (718)	19-1/4 (483)	9-3/8 (238)	7-1/2 (191)
30004T-1206	700 (159)	6 (150)	0.08 (0.06)	559 (254)	56-1/4 (1423)	28-1/4 (718)	21-1/4 (534)	10-3/8 (264)	9-1/2 (241)
30004T-1208	1100 (250)	8 (200)	0.15 (0.010)	568 (258)	56-1/4 (1423)	28-1/4 (718)	23-1/4 (584)	11-1/4 (238)	11-3/4 (286)
30004T-2410	1700 (386)	10 (250)	0.18 (0.012)	789 (358)	67-3/4 (1727)	39-3/4 (1010)	27-1/4 (686)	12-5/16 (313)	14-1/4 (362)
30004T-2412	2450 (556)	12 (300)	0.35 (0.024)	809 (367)	67-3/4 (1727)	39-3/4 (1010)	31-1/4 (787)	13-1/4 (337)	17 (431)

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 3 HP (2.2 kW) drive.



Macho Monster

Model 40000

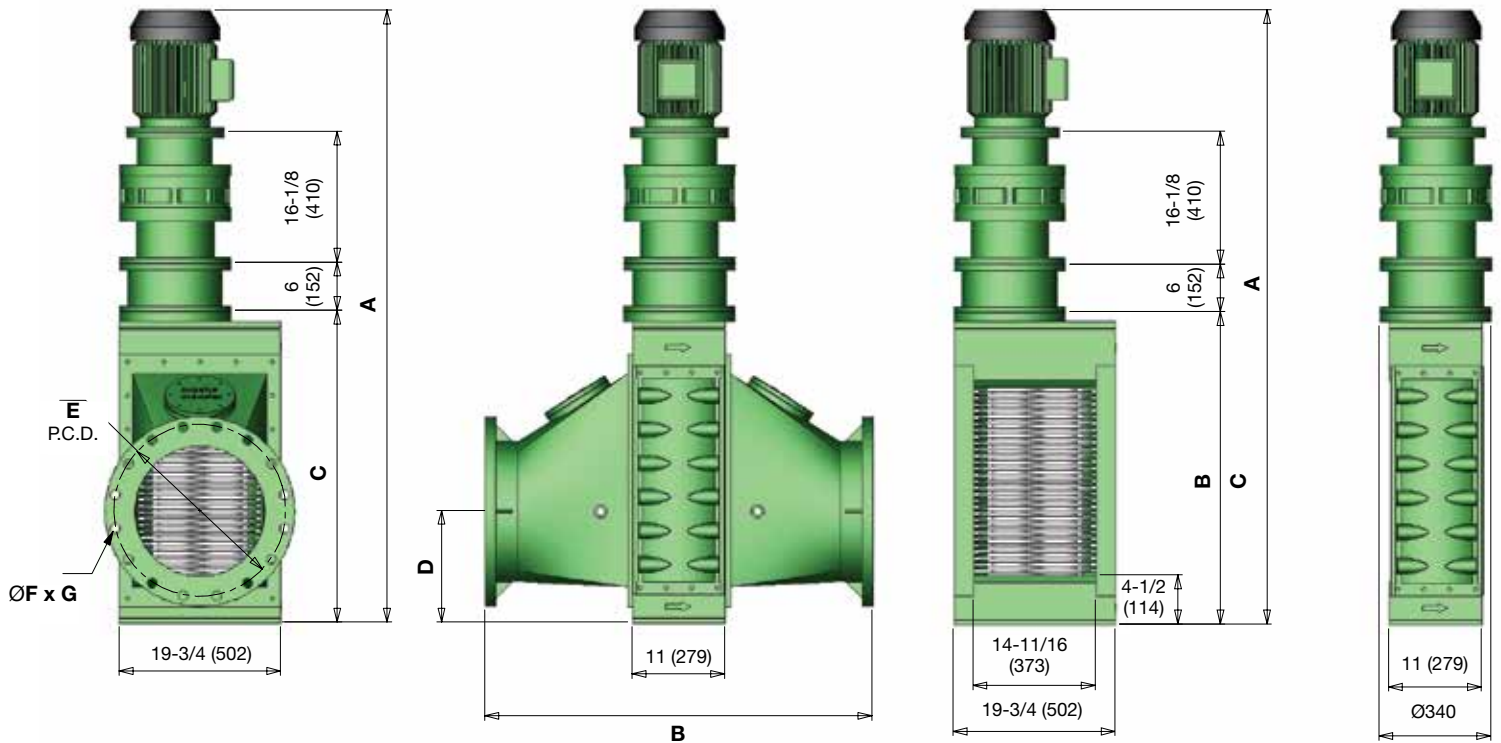
Specifications: 2-1/2" (64 mm) hex shafts; 10 HP (7.5 kW) motor standard with 7.5 HP (5.5 kW) optional; 35:1 reducer; tungsten carbide face seal cartridges

Cutter Size: 7-1/2" (191 mm) diameter cutters

Seal max working pressure: up to 90 PSI (6 bar)

In-Line Configuration

Open Channel Configuration



Performance Capability – Open Channel Configuration

Model	Flow Rate GPM (m ³ /h)	Head Drop in. (mm)	Net Weight Approx. lbs (kg)	Maximum Dimensions - in. (mm)		
				A	B	C
40000-0018	898 (204)	8 (203)	1175 (533)	69-1/4 (1758)	18 (457)	30-1/4 (768)
40000-0024	1501 (341)	16 (406)	1365 (619)	75 (1905)	24 (610)	37-1/4 (946)
40000-0032	2100 (477)	18 (457)	1560 (708)	76-1/4 (1937)	32 (813)	43-7/8 (1114)

Flow based on optimum channel conditions • Consult factory for analysis of application • Drive dimensions are a maximum based on a unit with a 10 HP (7.5 kW) drive • Extended drive shafts are available on request

Performance Capability – In-Line Configuration

Model	Flow Rate GPM (m ³ /h)	Pipeline Size-in. (mm)	Pressure Drop PSI (Bar)	Net Wt. lbs (kg)	Maximum Dimensions - in. (mm)			Flange Dimensions - in. (mm)		
					A	B	C	E	F	G
40002-1812	2700 (612)	12 (300)	3.5 (0.24)	1520 (690)	69-1/4 (1758)	35-1/4 (895)	30-1/4 (768)	17 (254)	1 (25)	12
40002-2412	3200 (727)	12 (300)	1.2 (0.08)	1775 (805)	76-1/4 (1937)	35-1/4 (895)	37-1/4 (946)	17 (254)	1 (25)	12
40002-2416	4400 (999)	16 (400)	1.7 (0.12)	1895 (860)	76-1/4 (1937)	43-1/4 (1099)	37-1/4 (946)	21-1/4 (539)	1-1/8 (29)	16
40002-2418	5500 (1249)	18 (450)	2.9 (0.20)	2095 (950)	76-1/4 (1937)	47-1/4 (1200)	37-1/4 (946)	22-3/4 (578)	1-1/4 (32)	20
40002-3220	6860 (1558)	20 (500)	3.6 (0.25)	2610 (1184)	82-3/4 (2102)	51-1/4 (1301)	43-7/8 (1114)	25 (635)	1-1/4 (32)	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 10 HP (7.5 kW) drive.



Macho Monster

Model 70000

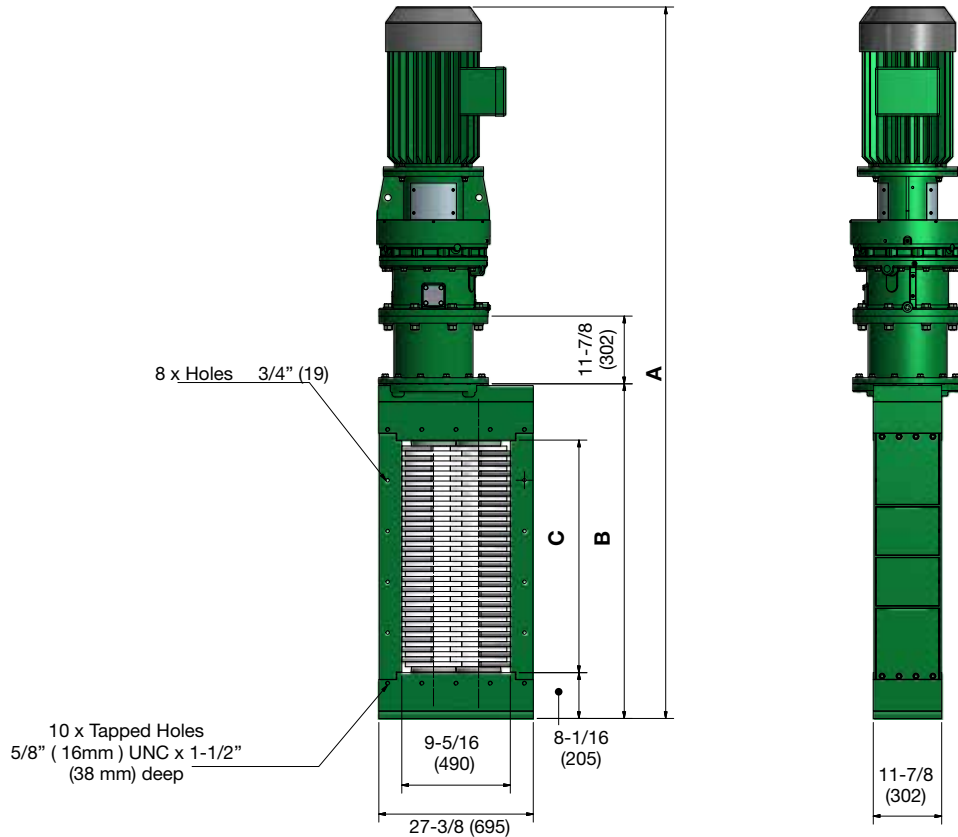
Specifications: 4" (102 mm) hex shafts; flush seals optional; tungsten carbide seal faces

Cutter Size: 10" (254 mm) diameter

Seal max working pressure: up to 58 PSI (4 bar)

† Theoretical particle size: 4-1/2" x 7/8" x 7/8" (114 mm x 22 mm x 22 mm)

Hopper Fed Configuration



Performance Capability - Hopper Fed Configuration

Model	Motor Power HP (kW)	Reducer	Thru-Put ft ³ /hr (m ³ /hr)	Maximum Dimensions - in. (mm)			Net Weight lbs (kg)
				A	B	C	
70000-0040-DI †	25-50 (18.5-37)	43:1	827 (24)	123 (3124)	59 (1499)	41 (1041)	4200 (1905)

† Actual particle size dependent on materials being shredded - Consult factory for details



Custom Hoppers to Feed Material



Macho Monster with Hopper Fed System



Macho Monster 70000 is JWCE's Biggest, Meanest Monster Ever



Hardened Alloy Steel Cutter Stack

Muffin Monster Options



7-Tooth:
Pump Stations or
Prisons



11-Tooth:
Wastewater, Sludge
or Scum



13-Tooth:
Heat-exchanger or
Centrifuge Protection



Electric motor



Exclusive:
JWC designed
immersible motor
(NEMA-6P)



Hydraulic drive

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.

Motors

- TEFC - Totally enclosed fan cooled electric
- XPFC - Explosion proof fan cooled electric
- XPNV - Exclusive electric immersible
- Available in: 3, 5, 10 HP (2.2, 3.7, 7.5 kW)

Hydraulic Power Packs

- Available in 5, 10, 15 HP (3.7, 7.5, 11 kW)

Extended Motor Shaft

- Places motor above highest water level.
- Available in 6" (150 mm) increments.
- Maximum: 12' (3600 mm)

Hoppers

- Custom made to fit
- 304 Stainless Steel

Muffin Monster Manhole

- Pre-fabricated fiberglass reinforced manhole with grinder
- Custom Depth
- Dome lid or manhole cover top



**Extended
motor shaft**



Custom stainless steel frames



Scrapers (optional)



Custom Hoppers



**Pre-fab Muffin Monster
Manhole**

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