



Take a  
Bite Out of  
Sludge  
Screening  
Problems

# Sludge Screens



## Drumscreen Monster®

### Internally Fed Sludge Screen

Drumscreen Monster is an internally fed fine screen ideal for removing trash and small debris from sludge using woven wire, wedge wire or perforated panels.

With 0.25 to 2mm mesh openings this fine screen removes unwanted material. An external spray wash system keeps the drum clean.



## Honey Monster® Sludge Screening Plant

### Reliable Screening with Macho Monster Grinder

The unique Honey Monster model SSP utilizes the proven Macho and Auger Monster® technologies to effectively grind, wash and separate non-degradable solids from sludge.

JWCI's Macho Monster grinds and opens up solids to allow effective washing and eliminates the age old problem of long rag pieces wrapping around rotating systems which eventually leads to blockages and breakdowns.

Honey Monster SSP is available with 3, 6 or 12 mm bar spacings and flow rates up to 363 m<sup>3</sup>/h.

Honey Monster SSP offers these benefits:

- Eliminates blocking of auger and discharge
- Prevents clogging of downstream equipment
- Highly efficient in cleaning and removing BOD loading from the retained solids
- Biological load is returned to downstream plant
- Enclosed plant eliminates odour
- Variable compaction ability to suit different applications



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International®

Trust Monster Quality™

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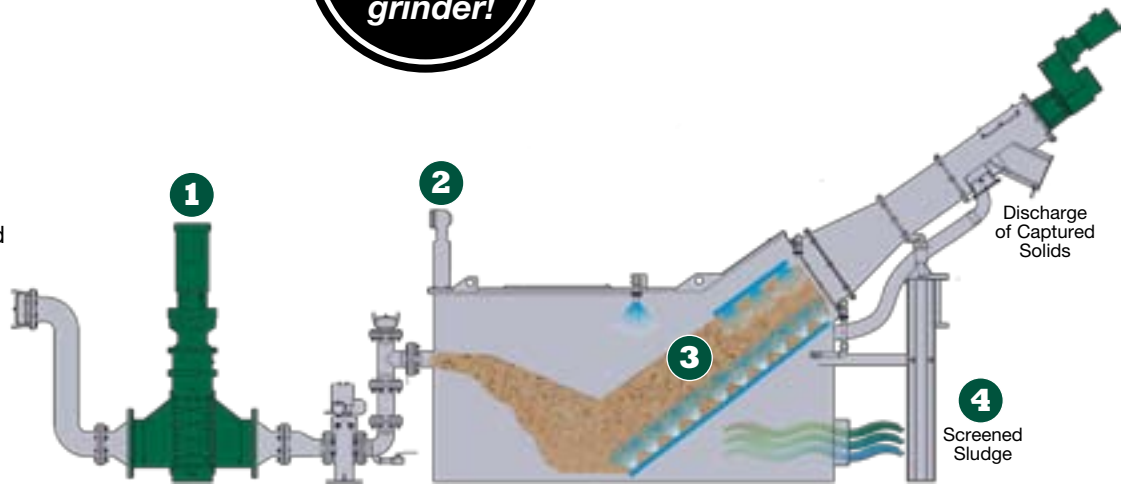
# Honey Monster®

## Sludge Screening Plant



### Operation

- 1) Sludge is processed through the Macho Monster grinder.
- 2) Ultrasonic level sensor and modulating plug valve regulate flow.
- 3) The unwanted solids are captured by the inclined auger screen and transported to the compaction zone for additional dewatering.
- 4) The screened sludge now flows into the downstream process.



### Materials of Construction

**Piping:** 100mm and 150mm 304 stainless steel

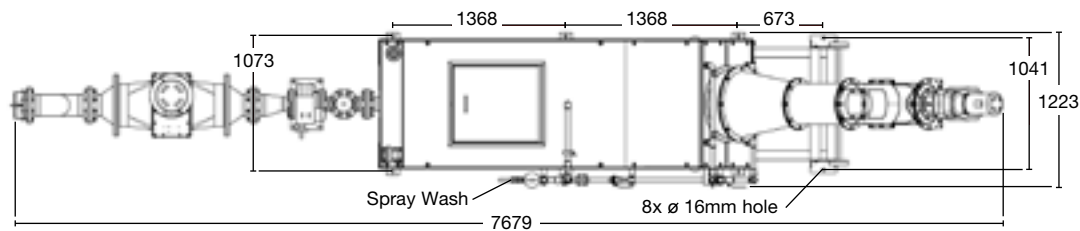
**Grinder Housing:** ductile iron housings BS A536-77

**Cutters:** 8620 carburized alloy steel, hardened to 60-65 Rockwell C

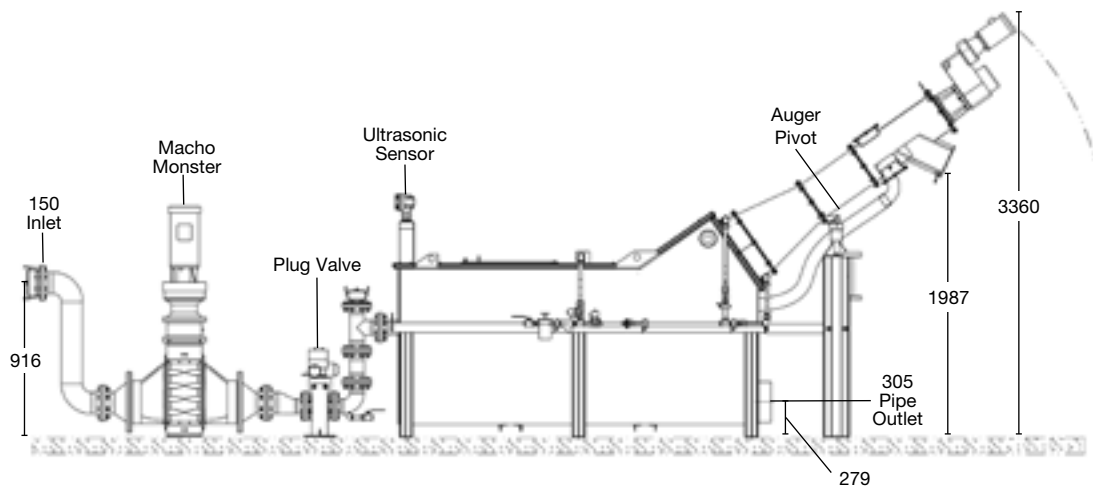
**Mechanical Seal Faces:** Tungsten Carbide

**Auger Assembly:** Casings and trough are 304 stainless steel; rotor is 480mm Ø alloy steel

**Tank & Support:** 304 stainless steel



Unique tilt and swivel system makes it easier to inspect the screen.



### Performance

Model	Bar Spacings (mm)	Auger Motor	Grinder Motor	Max Flow*
SSP3235-XE	3, 6 or 12	1.5kW	7.5kW	Up to 363 m <sup>3</sup> /h*

\* Flow rated with clean water, site results will vary depending on solids content.



# Drumscreen Monster®

## Monster Separation System®

### Operation

- 1) Sludge is pumped to the headbox and distributed evenly across the continuous band of woven wire mesh panels.
- 2) Debris is removed from the panels by the spray wash system and conveyed to the discharge end by debris flights.
- 3) Debris drops into a skip ready for landfill disposal.

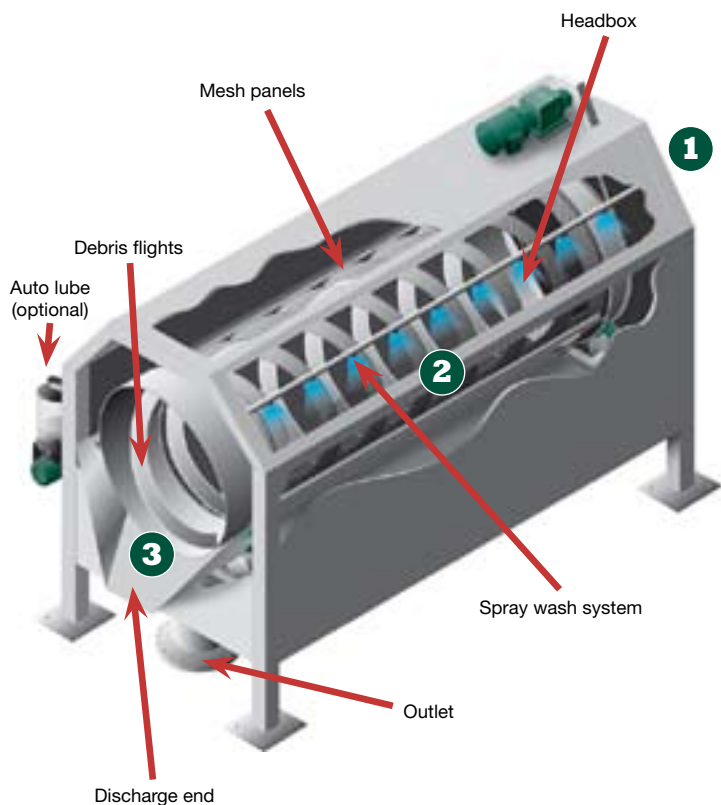
### Materials of Construction

**Screen structure:** 304 or 316 stainless steel

**Mesh panels:** 304 or 316 stainless steel

**Perforated panels:** 304 or 316 stainless steel or UHMW

**Drum rollers:** UHMW coating over 200mm diameter aluminum core. Two rollers are added for every 1.2m of drum length added.



### Equipment Sizing

**Screen panels:** 0.25, 0.5, 1 or 2mm woven wire

**Drum diameter:** 0.6, 0.9, 1.2 or 1.8m

**Drum length:** 0.9, 1.2, 2.4, 3.6 or 4.8m

**Wash water spray jets:** 6 nozzles per 1.2m section

**Wash water head at spray jets:** 4-7 bar

**Wash water requirement:** 0.32-0.44 l/s per nozzle



*Sludge is distributed evenly across the continuous band of woven wire or wedge wire mesh panels in the screening zone.*

### Sludge Flow Rates

Drum Size - m	Screen Size - Flow rates m <sup>3</sup> /h			
	0.25mm	0.5mm	1mm	2mm
0.6 x 0.9	21	23	30	40
0.6 x 1.2	29	32	42	55
0.9 x 1.2	47	51	66	88
0.9 x 2.4	93	102	132	176
1.2 x 2.4	116	127	166	219
1.2 x 3.6	174	191	248	329
1.8 x 3.6	279	305	397	527
1.8 x 4.8	372	407	530	702

*Note: Data covers sludge only and woven wire panels. Flow based on 5% solids and drum rotating 2 revolutions per minute. Contact JWCI for flow rates of other screen sizes and applications.*



*Several inlet flange sizes are available.*

# Photo Gallery



*Honey Monster at a sludge screening plant in the UK.*



*JWCI's Honey Monster offers a number of integrated compactor options to match your application precisely.*



*A close-up of the Honey Monster's auger screen and spray wash system. Inorganic solids are captured, cleaned and removed.*



*Drumscreen Monster includes an automated controller. JWCI offers an optional auto-lube system & variable frequency drives.*



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