



Auger Monster®

Modular Headworks System

*The Only
One That's
All-in-One*

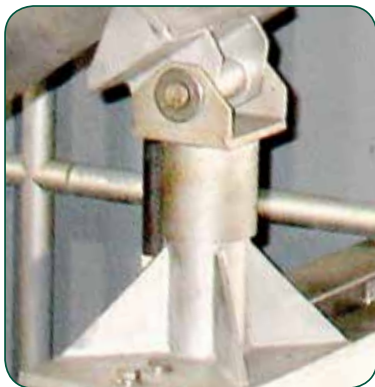


Overview

The Auger Monster is a robust and affordable wastewater screen which combines three of JWCE's finest technologies – a grinder, a fine screen and a compactor. It removes trash and unwanted solids, so the treatment plant runs more efficiently and life is easier for operators and managers.

First, a powerful Muffin, Channel or Macho Monster® grinder shreds clumps of rags, clothing and debris. Next, solids are captured by a perforated screening trough and removed by a rotating auger. As solids are removed, dual wash water zones clean off fecal material. The auger then conveys solids to the discharge point where the integrated compactor (optional) squeezes out water before depositing the cleaned and dried material into a dumpster.

The cleaner, more compact discharge keeps odors to a minimum and lowers disposal costs, as less water and fecal material are sent to the landfill.



Auger pivots and swivels out of the channel—a JWCE Exclusive!

With the Auger Monster, wastewater screening couldn't get any easier—it's the only one that's all-in-one!

Features & Benefits

Dual-Shafted Grinder

- Proven Muffin Monster grinding technology
- Shreds long, stringy material to prevent wrapping
- Breaks-up clumps for more efficient washing

Spiral Lifting Screw

- Solids are removed while soft organics are washed back into the channel through a perforated screen
- Various perf sizes: 2, 3 or 6mm

Cleaner Screenings Discharge

- Integrated spray wash launders screenings and removes fecal material for cleaner discharge and reduced odors

Modular Headworks System

- Integrates high-flow grinding, screening, washing and dewatering technology
- Placement in existing channel with little or no civil work
- Easy installation in outdoor locations

Easy Access, Pivoted Auger

- The auger is mounted to a tilt and swivel point for easy removal and servicing.
- Operators can easily bring the screening trough, auger brush and auger conveyor to deck level for inspection

Automated PLC Monitoring and Controls

- Auto load sensing and reversing protects the system
- Adjustable, differential run times for optimal solids removal and operating life
- Auger "fail-safe" mode ensures system continues running even if electronics are disabled



JWCE
Environmental®

Trust Monster Quality™

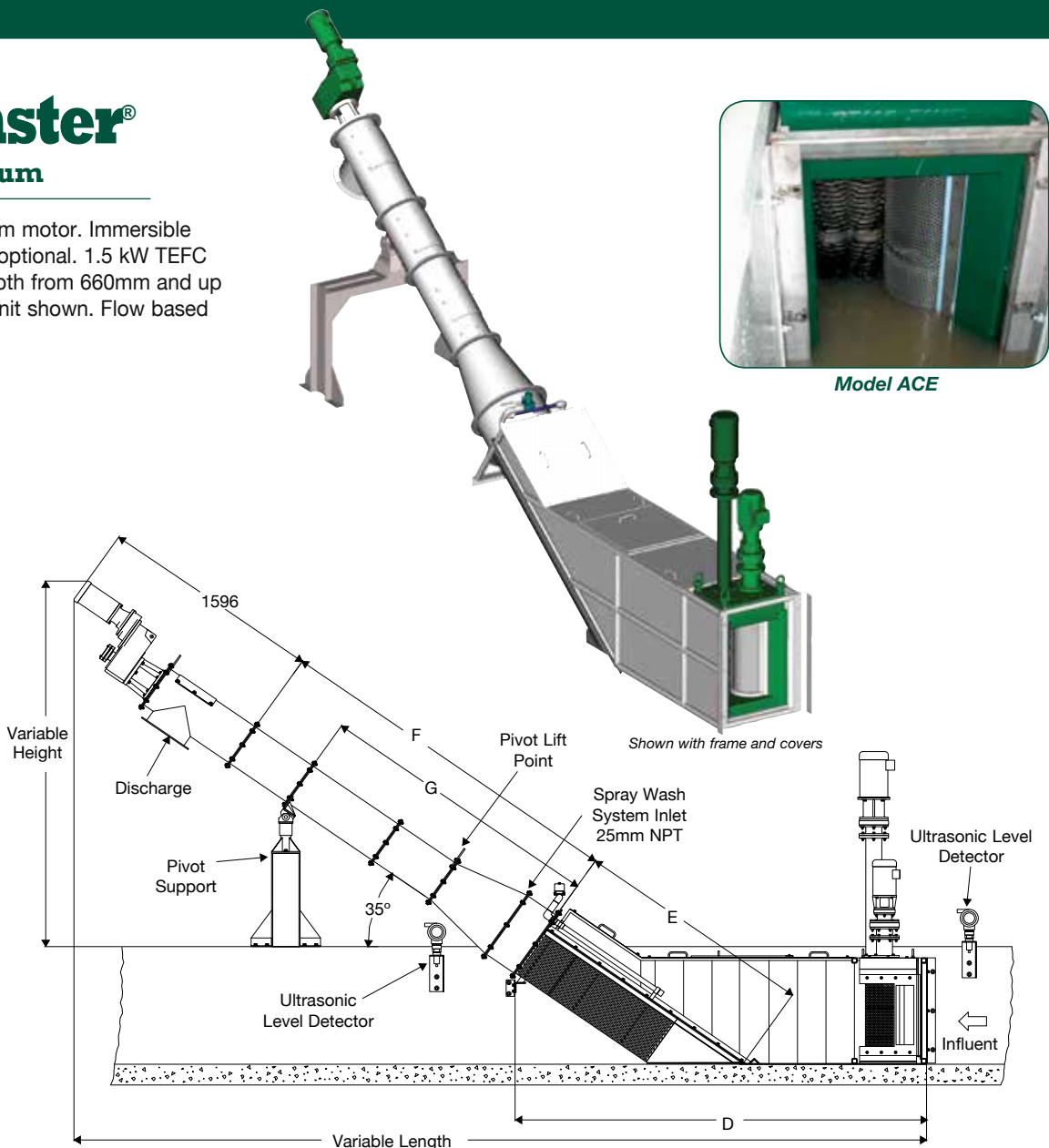
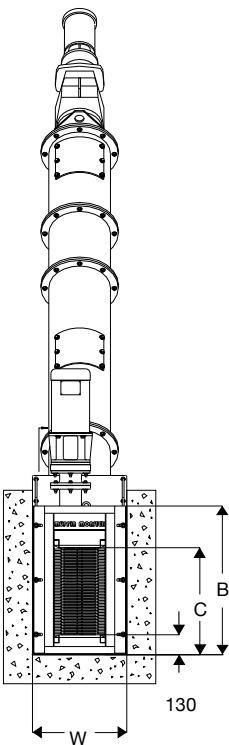
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Auger Monster®

Model ACE • Single Drum

3.7 kW grinder motor. 0.75 kW drum motor. Immersible and other electric type motors are optional. 1.5 kW TEFC auger motor. Minimum channel depth from 660mm and up - based on frame height. 480mm unit shown. Flow based on optimum channel conditions.



Model	B mm	C mm	D mm	W - Min. Channel Width w/o frame mm	W - Min. Channel Width w/ frame mm	Flow Capacity m³/h
ACE1810-480	779	592	2808	610	762	342
ACE2410-480	922	738	3177	610	762	465
ACE3210-480	1122	938	3546	610	762	636
ACE4010-480	1322	1135	3915	610	762	807
ACE5010-480	1576	1389	4285	610	762	1029
ACE6010-480	1840	1653	4648	610	762	1261

* Please consult factory for final applications assistance.



Auger Monsters discharging into a horizontal conveyor



Two auger conveyors converge



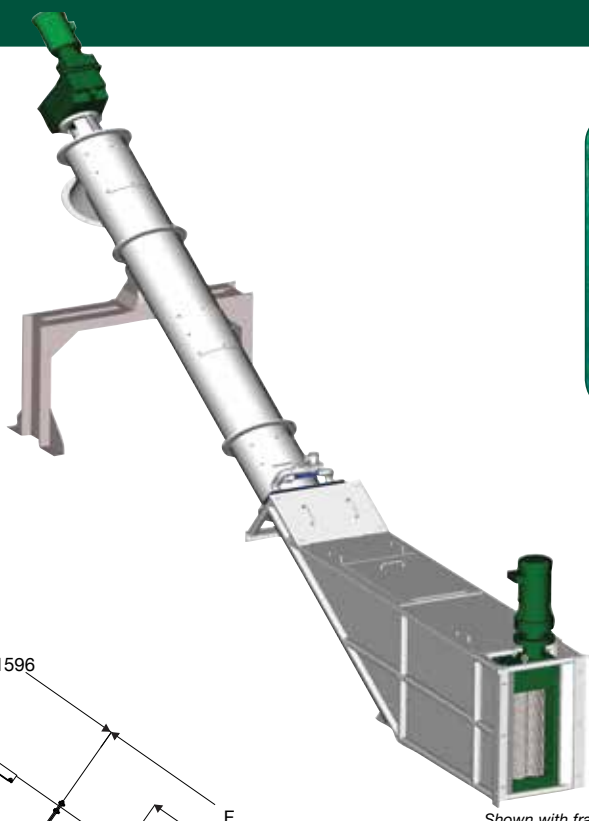
Auger Monsters and cross conveyor



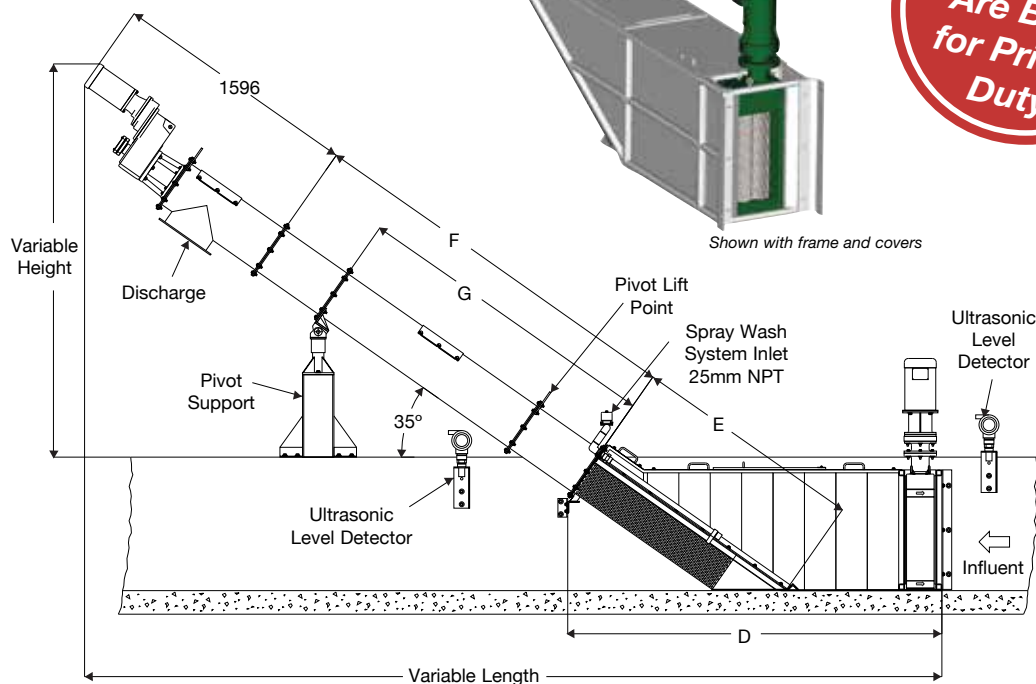
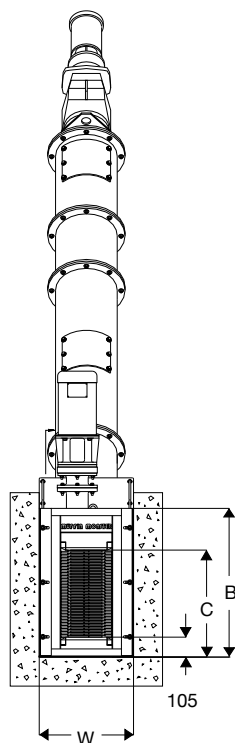
Auger Monster®

Model AGE • Grinder and Screen

3.7 kW grinder motor. Immersible and other electric type motors are optional. 1.5 kW TEFC auger motor. Minimum channel depth from 660mm and up - based on frame height. 285mm unit shown. Flow based on optimum channel conditions.



Model AGE



Model	B mm	C mm	D mm	W - Min. Channel Width* w/o frame mm	W - Min. Channel Width* w/ frame mm	Max Flow m³/h
AGE1800-170	749	556	2159	305	406	146
AGE2400-170	895	708	2530	305	406	194
AGE3200-170	1092	911	2899	305	406	258
AGE4000-170	1295	1114	3269	305	406	331
AGE5000-170	1549	1368	3638	305	406	435
AGE6000-170	1813	1622	3999	305	406	552
AGE1800-285	749	556	2402	406	559	168
AGE2400-285	895	708	2762	406	559	223
AGE3200-285	1092	911	3139	406	559	298
AGE4000-285	1295	1114	3499	406	559	382
AGE5000-285	1549	1368	3853	406	559	505
AGE6000-285	1813	1622	4203	406	559	642
AGE1800-480†	724	583	2721	610	762	200
AGE2400-480†	901	762	3096	610	762	274
AGE3200-480†	1092	952	3461	610	762	359

*Please consult factory for final applications assistance.

†Available only with Macho Monster model 0018, 0024 or 0032



Vertical Auger Monster

Model AGV • Vertical Screening System

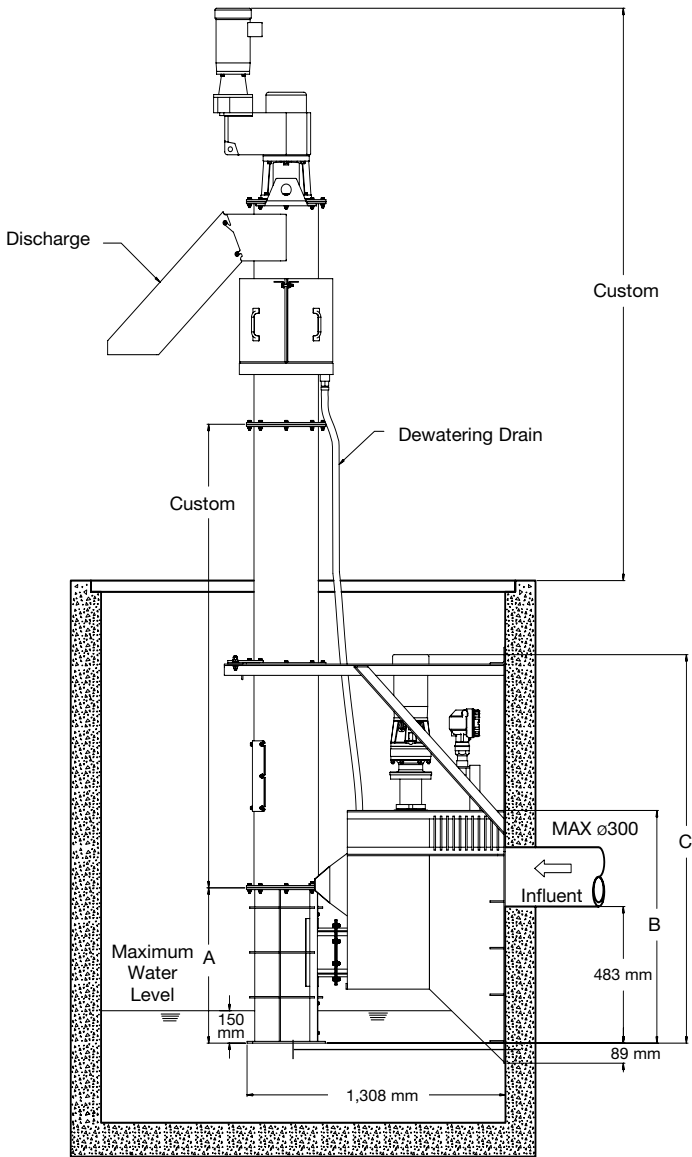
3.7 kW grinder motor. Immersible and other electric type motors are optional. 1.5 kW TEFC auger motor.



Model AGV



Wall mounted screening basket with spiral lifting screw and a patented compaction zone



High Flow Screening



Muffin Monster®

Model	A inches (mm)	B inches (mm)	C inches (mm)	Max Flow MGD (m³/h)
AGV1800-285	699	1,046	1,848	125
AGV2400-285	826	1,192	1,994	159
AGV3200-285	1,041	1,389	2,191	206
AGV4000-285	1,245	1,592	2,394	252

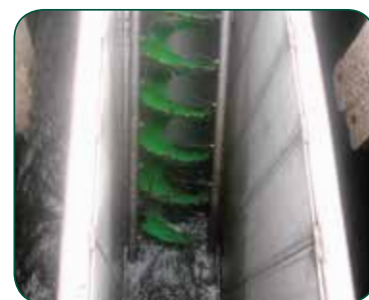
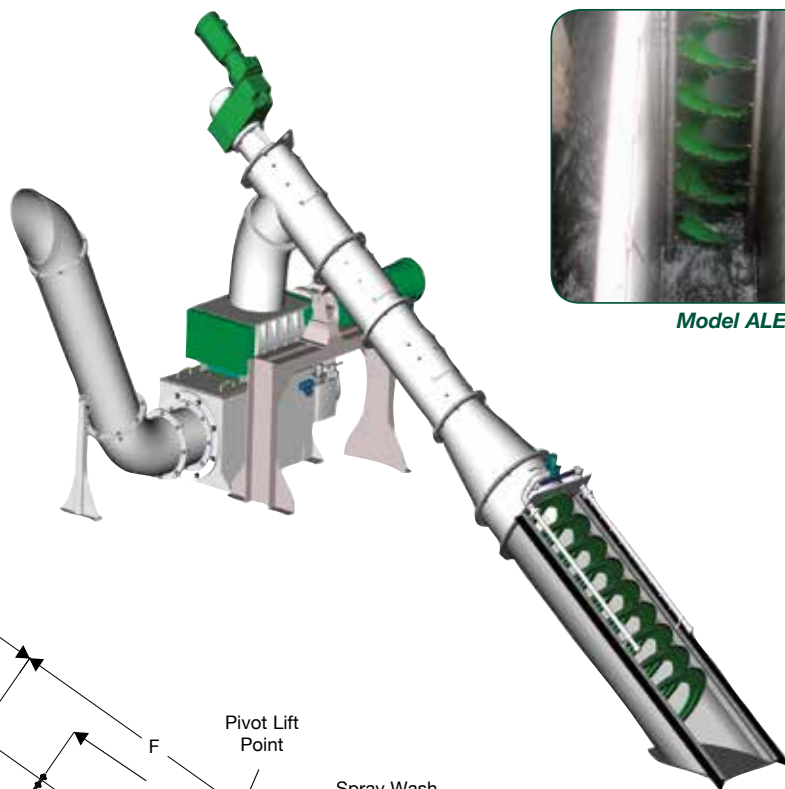
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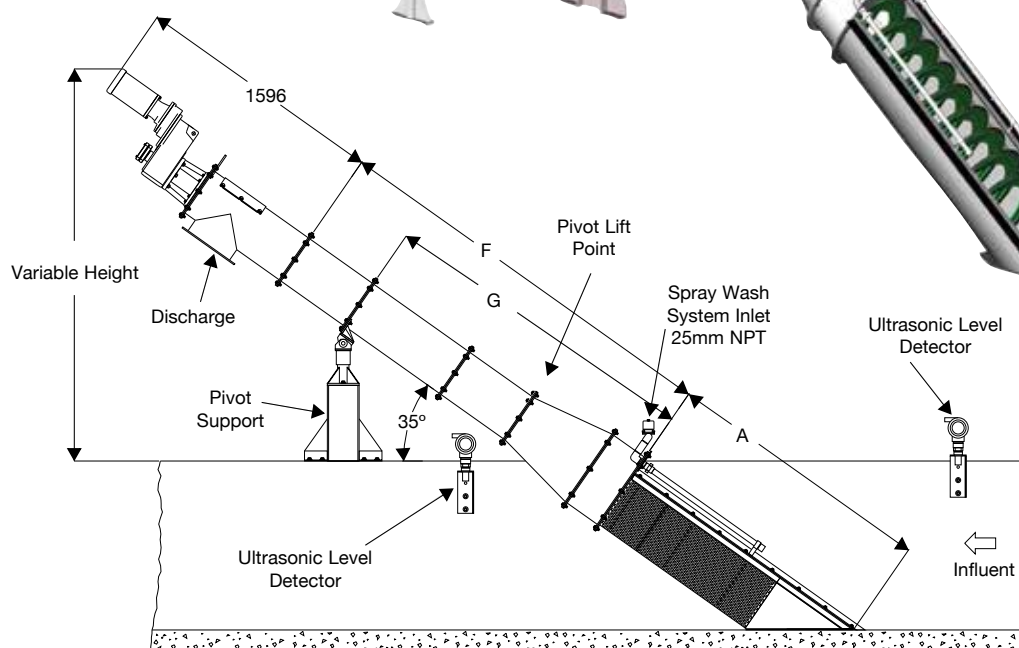
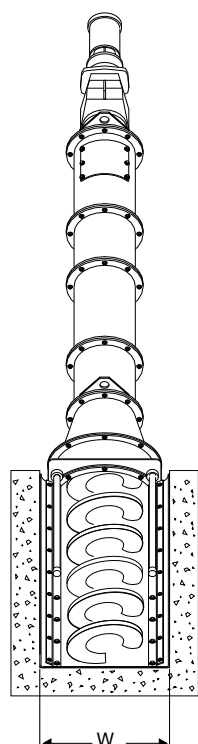
Auger Monster®

Model ALE • Auger - No Grinder

1.5 kW TEFC auger motor. Immersible and other electric type motors are optional. Minimum channel depth from 660mm and up - based on frame height. 480mm shown with optional Screenings Washer Monster®.



Model ALE



Model	A mm	W - Min. Channel Width - mm	Flow Capacity m³/h
ALE1800-170	1364	305	265
ALE2400-170	1735	305	345
ALE3200-170	2103	305	456
ALE4000-170	2475	305	566
ALE5000-170	2843	305	707
ALE6000-170	3207	305	854
ALE1800-285	1497	406	339
ALE2400-285	1867	406	440
ALE3200-285	2242	406	579
ALE4000-285	2611	406	716
ALE5000-285	2981	406	893
ALE6000-285	3346	406	1078
ALE1800-480	1683	610	542
ALE2400-480	2053	610	694
ALE3200-480	2423	610	902
ALE4000-480	2792	610	1107
ALE5000-480	3162	610	1370
ALE6000-480	3526	610	1646



Solids captured and removed by auger

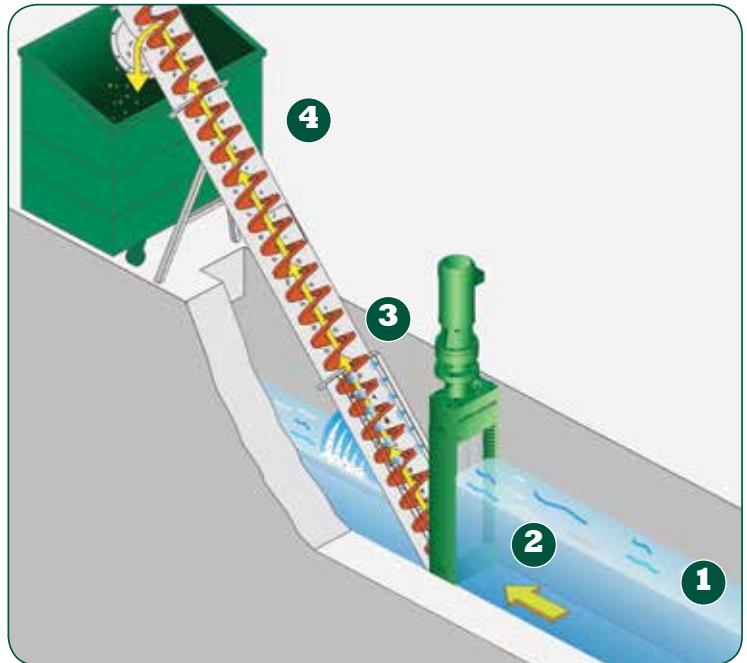


Discharge into optional bagger



Operation

- 1) Solids and trash suspended and conveyed in the flow enter the grinder section.
- 2) Solids are captured in the central cutter stack for size reduction. Even small solids, such as paper and cotton products, are captured and ground up.
- 3) Ground solids enter the perforated screening zone and are lifted out by the inclined auger. High-pressure wash water cleans the solids and removes the soft organics, flushing them back into the flow.
- 4) Washed screenings are conveyed to deck level, then compacted (optional), dewatered and deposited into a dumpster or a bagging system (optional).



Cleaner, More Compact Discharge



Auger Monster discharge is cleaner, drier and more compact. The Auger Monster has become a favorite among wastewater operators and managers since it makes the headworks area cleaner, less time consuming and less expensive to operate.



Flow from grinder to auger



Replaceable auger brush keeps perforated screen clean and helps transport solids.

Materials of Construction

Channel Frame: Stainless steel

Cutters and Spacers: Through-hardened for strength, case-hardened for durability and surface-ground for uniformity

Shafts: Heat treated hexagonal steel

End Housings and Covers: Ductile Iron

Seal Faces: Tungsten Carbide on Tungsten Carbide

Auger Spiral: Alloy steel



Photo Gallery



Debris is Washed and Lifted to the Discharge Point via Spiral Lift



A Muffin Monster Breaks Up Solids



An Auger Shown with an Insulation Blanket and Bagger



Vertical Auger Monster



Auger Monster in a Prison Site



Debris Moving up the Spiral Lift

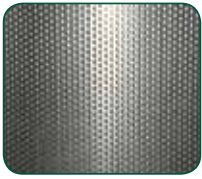


Flow from Grinder to Auger

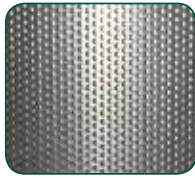
Auger Monster Options

Screen Sizes

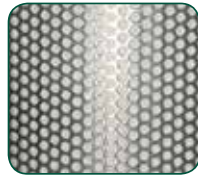
- 2, 3 or 6 mm perforated screens



2mm



3mm



6mm



Electric motor

JWCE exclusive:
high-efficiency
immersible motorTouch Screen
Controller

Conveyor Options

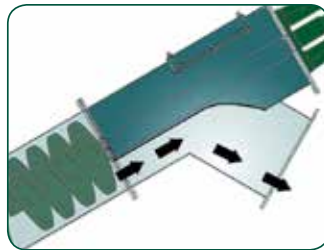
- Convey discharged solids vertically, horizontally or at an angle.
- Sluice conveyor

Patented Compaction zone

- Compactor at the end of the auger compresses material to save on transport and disposal fees



Conveyor



Compaction zone

Dual Shafted Grinder

- Various cutter stack heights to fit your channel and flow requirements
- Multiple cutter options
- High-flow side rails
- Channel Monster® with high-flow screening drum

30000 Grinder
Option40000 Grinder
OptionChannel Monster
Option

Motors

- Single or Multi-drive
- Electric motor: 3.7, 7.5 kW
- Explosion proof electric motor: 3.7, 7.5 kW
- Exclusive Immersible Motor: 3.7, 7.5 kW

Extended Motor Shaft

- Drive shaft extension puts motor above the highest overflow level. Available in 152mm increments.

Overflow Bar Screens

- Stainless steel bars attached to frame inhibit solids from passing during an overflow event.

High-tech Controllers

- Enclosure options: NEMA 4x 304 stainless steel; NEMA 4x 316 stainless; NEMA 7 explosion proof
- Dual motor option allows independent operation of the cutter stack and drum

Discharge Bagger

- Screenings can be collected inside a plastic bag affixed to the end of the discharge chute
- Operator simply pulls the trash bag from the ring and ties it off

Cold Weather System

- Heat tracing and insulation blanket inhibit freezing
- High performance is assured in colder climates
- Operates outdoors, no need for a building or covering

Extended
shaft

Bagger



Heat Blanket



JWC
Environmental®
Trust Monster Quality™

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