



# VERTICAL AUGER MONSTER™



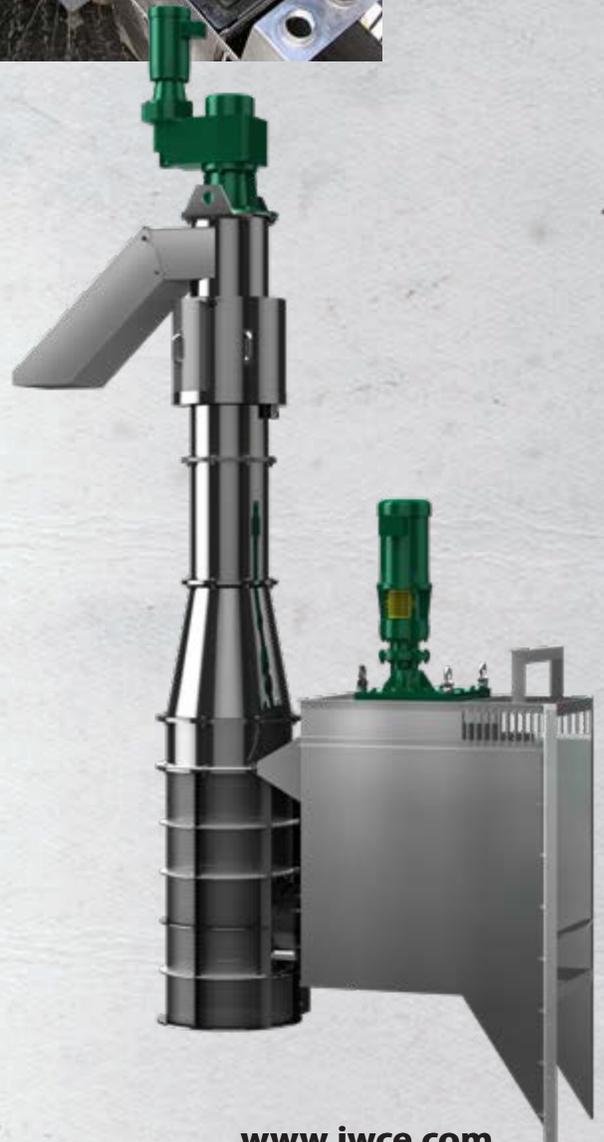
## All-in-one solution to remove trash and unwanted solids from your pump station

### Overview

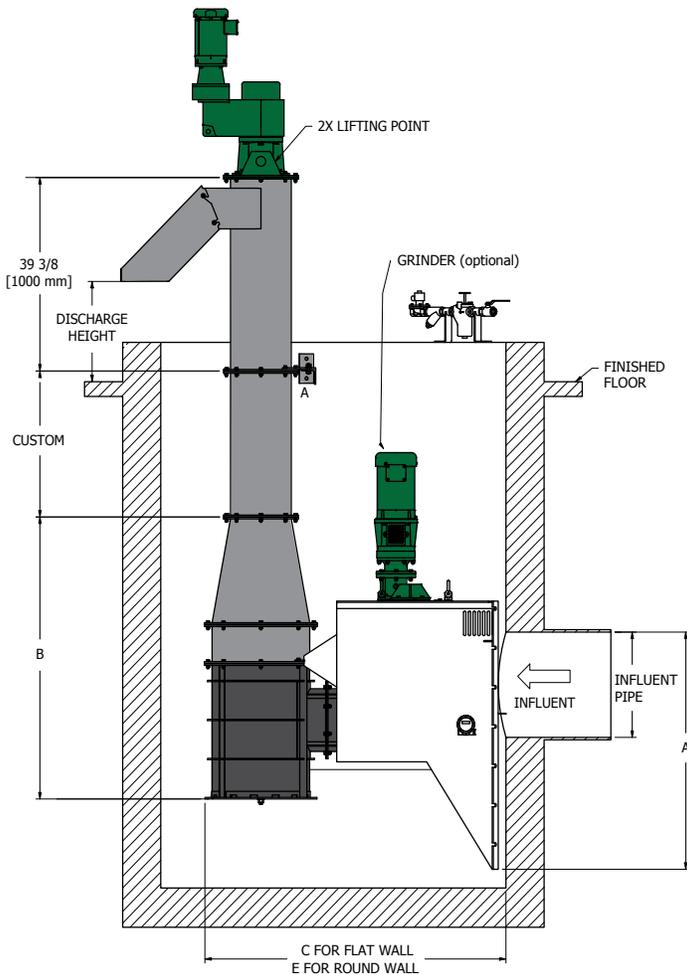
The Vertical Auger Monster is a fine screening device that captures debris and conveys it vertically out of the pump station. The screenings are laundered to remove fecal matter and dewatered before depositing the clean and dry material into a bin or bagger. When paired with a dual-shafted JWC Monster grinder, the cleanliness of the screenings is maximized. The grinder breaks up rags and tough solids allowing for a higher level of separation of the organics from the solids.

JWC Environmental offers a selection of Vertical Auger Monster models to serve a wide range of applications. The ACV and AGV Vertical Auger Monsters incorporate Muffin Monster® grinding technology and have peak flows up to 4.8 mgd (759 m<sup>3</sup>/hr). The ALV Vertical Auger Monster is a cost-effective solution with the capability of flows as high as 9.4 mgd (1474 m<sup>3</sup>/hr).

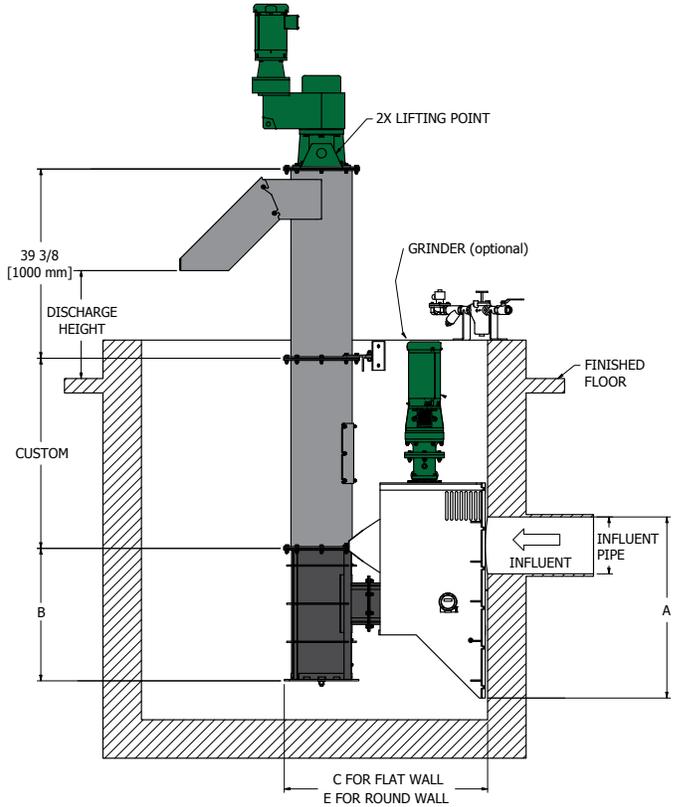
The Vertical Auger Monster installs easily into confined spaces. It is the perfect solution for when you want to remove debris at your pump station to protect pumps and downstream equipment in your collection system from wipes and other solid waste.



# Vertical Auger Monster™



**ACVXX01-480**  
**AGVXX01-480**  
**ALVXX01-480**



**AGVXX01-285**  
**ALVXX01-285**

ACV Model	Max pipe size - inch (mm)	Standard dimensions - inch (mm)		Flat wall install dimensions - inch (mm)		Round wall install dimensions - inch (mm)		Max flow* - mgd (m <sup>3</sup> /hr)		
		A	B	C	D	E	F	0% Blind	30% Blind	50% Blind
ACV1801-480	21-1/2 (546)	46-1/16 (1246)	57-5/16 (1456)	61-5/8 (165)	49-3/8 (1051)	63-3/16 (1605)	51-7/16 (1307)	2.40 (379)	2.05 (323)	1.67 (263)
ACV2401-480	21-1/2 (546)	54-13/16 (1392)	63-1/16 (1602)	61-5/8 (165)	49-3/8 (1051)	63-3/16 (1605)	51-7/16 (1307)	3.37 (532)	2.90 (457)	2.37 (374)
ACV3201-480	21-1/2 (546)	61-9/16 (1589)	70-13/16 (1799)	61-5/8 (165)	49-3/8 (1051)	63-3/16 (1605)	51-7/16 (1307)	4.81 (759)	4.18 (659)	3.44 (543)

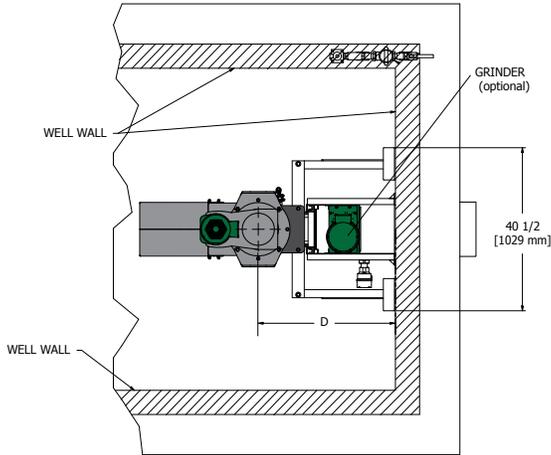
\* Max flow based on 6 mm screening section, domestic wastewater

AGV Model	Max pipe size - inch (mm)	Standard dimensions - inch (mm)		Flat wall install dimensions - inch (mm)		Round wall install dimensions - inch (mm)		Max flow* - mgd (m <sup>3</sup> /hr)		
		A	B	C	D	E	F	0% Blind	30% Blind	50% Blind
AGV1801-285	12 (305)	37-3/4 (959)	27-1/2 (699)	41-7/8 (1063)	34-1/16 (865)	42-1/4 (1074)	34-9/16 (877)	1.23 (195)	1.03 (162)	0.81 (128)
AGV2401-285	12 (305)	43-1/2 (1105)	33-1/4 (845)	41-7/8 (1063)	34-1/16 (865)	42-1/4 (1074)	34-9/16 (877)	1.71 (270)	1.37 (217)	1.06 (167)
AGV3201-285	12 (305)	51-3/7 (1314)	41 (1041)	41-7/8 (1063)	34-1/16 (865)	42-1/4 (1074)	34-9/16 (877)	2.42 (381)	1.85 (292)	1.39 (219)
AGV4001-285	12 (305)	59-3/4 (1518)	49 (1245)	41-7/8 (1063)	34-1/16 (865)	42-1/4 (1074)	34-9/16 (877)	3.09 (487)	2.31 (364)	1.70 (269)
AGV1801-480	21-1/2 (546)	48-5/16 (1227)	57-5/16 (1456)	55-5/8 (1413)	35-3/8 (899)	57 (1447)	45-1/4 (1149)	1.39 (219)	1.31 (207)	1.19 (187)
AGV2401-480	21-1/2 (546)	53-3/4 (1365)	63-1/16 (1602)	55-5/8 (1413)	35-3/8 (899)	57 (1447)	45-1/4 (1149)	2.05 (324)	1.98 (313)	1.80 (284)
AGV3201-480	21-1/2 (546)	61-1/4 (1556)	73-13/16 (1799)	55-5/8 (1413)	35-3/8 (899)	57 (1447)	45-1/4 (1149)	3.08 (486)	3.00 (472)	2.73 (430)

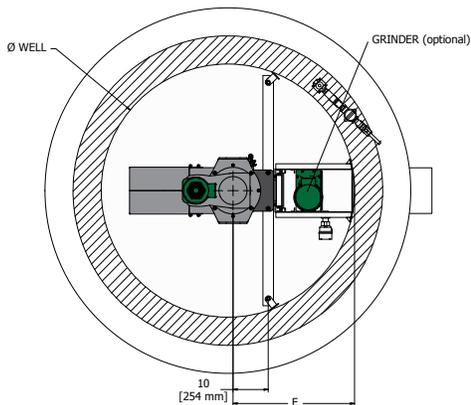
\* Max flow based on 6 mm screening section, domestic wastewater



# Vertical Auger Monster™



**Flat wall installation**



**Round wall installation**

## ACV Vertical Auger Monster

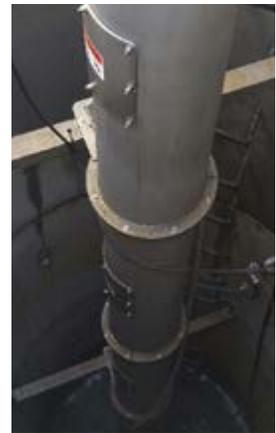
The top-of-the-line ACV Vertical Auger Monster is designed to handle high flows with high solids loading. It utilizes a JWC Channel Monster® grinder to precondition the solids and separate the organics from the other trash and debris. The ACV has peak flow capabilities of 4.8 mgd (759 m<sup>3</sup>/hr).

## AGV Vertical Auger Monster

The AGV Vertical Auger Monster incorporates either a 30K or 40K Muffin Monster® grinder to precondition the solids before conveying them out of the pump station. It is capable of flows up to 3.1 mgd (487 m<sup>3</sup>/hr).

## ALV Vertical Auger Monster

The ALV Vertical Auger Monster is for applications with lower solids loading and high flows. This cost-effective solution captures, conveys and dewateres debris. This version can handle peak flows up to 9.4 mgd (1474 m<sup>3</sup>/hr).



ALV Model	Max pipe size - inch (mm)	Standard dimensions - inch (mm)		Flat wall install dimensions - inch (mm)		Round wall install dimensions - inch (mm)		Max flow* - mgd (m <sup>3</sup> /hr)		
		A	B	C	D	E	F	0% Blind	30% Blind	50% Blind
ALV1801-285	12 (305)	36-1/2 (927)	27-1/2 (699)	30-3/8 (771)	22-9/16 (572)	30-3/16 (783)	23-1/16 (586)	2.06 (324)	1.44 (227)	1.03 (162)
ALV2401-285	12 (305)	42-1/4 (1073)	33-1/4 (845)	30-3/8 (771)	22-9/16 (572)	30-3/16 (783)	23-1/16 (586)	2.50 (395)	1.75 (276)	1.25 (197)
ALV3201-285	12 (305)	50 (1270)	41 (1041)	30-3/8 (771)	22-9/16 (572)	30-3/16 (783)	23-1/16 (586)	3.09 (487)	2.16 (341)	1.54 (244)
ALV4001-285	12 (305)	58 (1473)	49 (1245)	30-3/8 (771)	22-9/16 (572)	30-3/16 (783)	23-1/16 (586)	3.67 (579)	2.57 (405)	1.84 (290)
ALV1801-480	21-1/2 (546)	36-1/2 (927)	40-9/16 (1030)	38-3/8 (974)	26-9/16 (674)	40-1/4 (1022)	28-1/2 (724)	4.59 (725)	3.22 (507)	2.30 (362)
ALV2401-480	21-1/2 (546)	42-1/4 (1073)	46-5/16 (974)	38-3/8 (974)	26-9/16 (674)	40-1/4 (1022)	28-1/2 (724)	6.55 (1034)	4.59 (724)	3.28 (517)
ALV3201-480	21-1/2 (546)	50 (1270)	54-1/16 (1373)	38-3/8 (974)	26-9/16 (674)	40-1/4 (1022)	28-1/2 (724)	9.35 (1474)	6.54 (1032)	4.67 (737)

\* Max flow based on 6 mm screening section, domestic wastewater

## Materials of construction

**Support frame:** 304 or 316 stainless steel

**Casings and screen:** 304 or 316 stainless steel

**Auger rotor:** Alloy steel or 304 or 316 stainless steel

**Grinder housing:** Ductile iron

**Grinder cutters and spacers:** Hardened alloy steel



# Vertical Auger Monster™

## Wall-mounted support frame

- Installed in existing pump station with minimal civil work
- Quick and easy installation and removal of grinder or auger in confined space

## Twin-shafted grinder

- Shreds wipes and stringy material to prevent wrapping
- Breaks up clumps to separate organics
- Proven Muffin Monster® grinding technology with AGV and ACV models

## Perforated-plate screen

- Fine screening with perforation sizes from 3/32" to 1/4" (2 to 6 mm)
- Integrated spray wash launders screenings
- Solids are captured; soft organics are washed back into the waste stream
- Transport channel in screen facilitates upward conveyance of material\*

## Vertical rotor with coil-wound brush

- Rugged rotor spiral transport
- External bearing technology eliminates bottom/intermediate bearings and lubrication
- Lifting scraper at bottom of rotor removes material off bottom of screen and keeps material on rotor\*
- Unique brush attachment keeps screen clean
- Center brushing at bottom of rotor keeps auger centered for best screen operation\*

## Enclosed transport segment

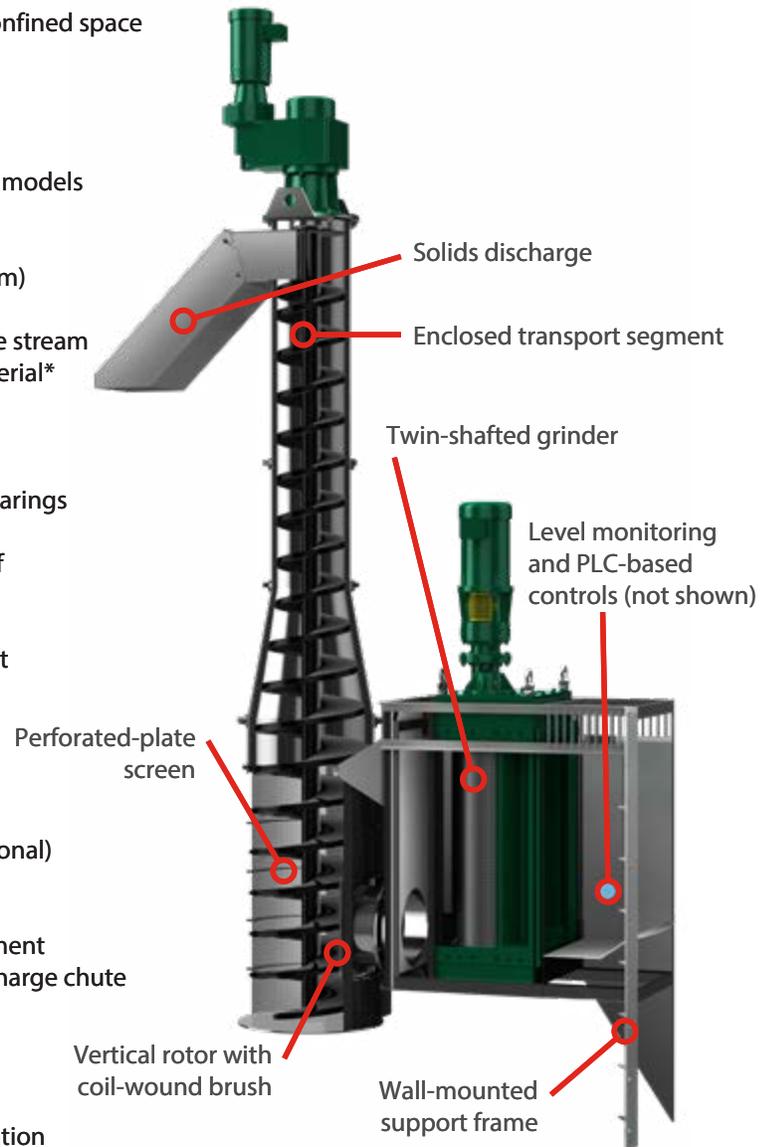
- Keeps odors contained within the auger casing
- Customizable length
- Heat trace and insulation jacket for cold weather operation (optional)

## Solids discharge

- Configurable for 1 of 8 positions around auger to simplify placement
- Unique connection facilitates removal and re-installation of discharge chute
- Discharge bagger (optional)

## Level monitoring and PLC-based controls

- Auto load sensing and reversing protects the system
- User-configurable operating parameters permit system optimization
- Auger fail-safe mode ensures system continues running
- Hydrostratic level sensor



\* Patent Pending

Since its founding in 1973, JWC Environmental has become a world leader in solids reduction and removal for the wastewater industry with its Muffin Monster grinders and Monster Separation Systems. JWC also solves challenging size reduction and processing problems in commercial and industrial applications through its Monster Industrial division. JWC Environmental is headquartered in Santa Ana, California, USA, and has a global network of representatives, distributors and regional service centers to provide customer support.

For more information, visit JWC Environmental at [www.jwce.com](http://www.jwce.com).



**Headquarters**  
2850 Red Hill Ave., Suite 125  
Santa Ana, CA 92705 USA  
toll free: 800.331.2277  
phone: 949.833.3888  
fax: 949.833.8858  
email: [jwce@jwce.com](mailto:jwce@jwce.com)

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

