



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, conveys it vertically out of the pump station, launders the screenings to remove fecal matter and finally dewater the debris before depositing the clean and dry material into a bin. 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 Products 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 m³/hr). The **ALV Vertical Auger Monster** is a cost effective solution with the capability of flows as high as 9.4 MGD (1474 m³/hr).



Vertical Auger Monster®

Wall-mounted support frame

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

Twin-shafted grinder

- Shreds wipes, stringy material to prevent wrapping
- Breaks up clumps to separate out organics
- Proven Muffin Monster® grinding technology

Perforated plate screen

- Fine screening with perforation sizes from 3/32" - 1/4" (2 - 6 mm)
- Integrated spray wash launders screenings
- Solids are captured, soft organics are washed back into the waste stream

Vertical rotor with coil-wound brush

- Rugged rotor spiral transport
- "External bearing" technology eliminates bottom/intermediate bearings and lubrication
- Unique brush attachment keeps screen clean

Enclosed transport segment

- Keeps odors contained within the auger casing
- Customizable length

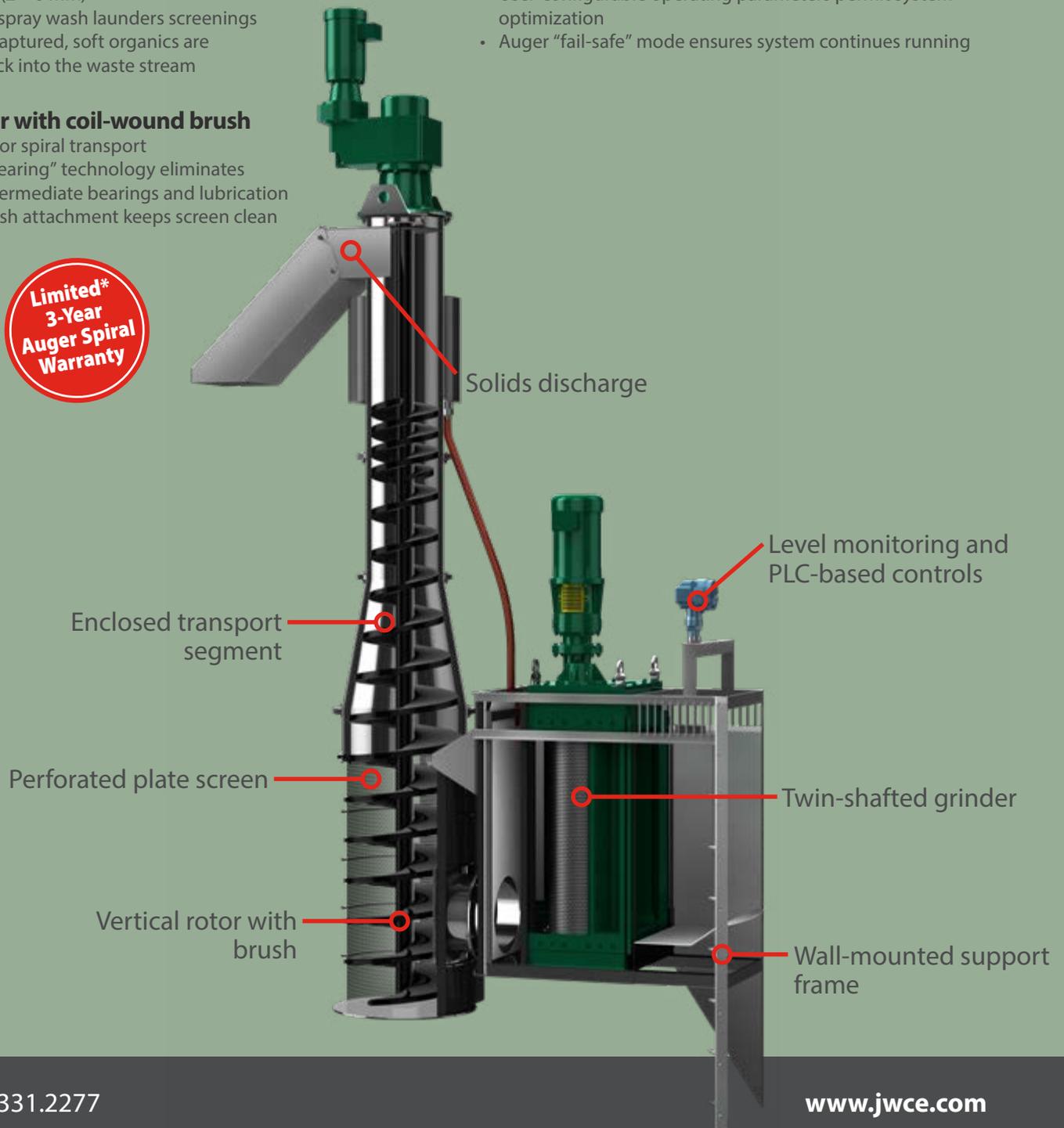
Solids discharge

- Configurable for 1 of 8 positions around auger to simplify placement
- Unique connection facilitates removal & re-installation of discharge chute

Level monitoring & 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

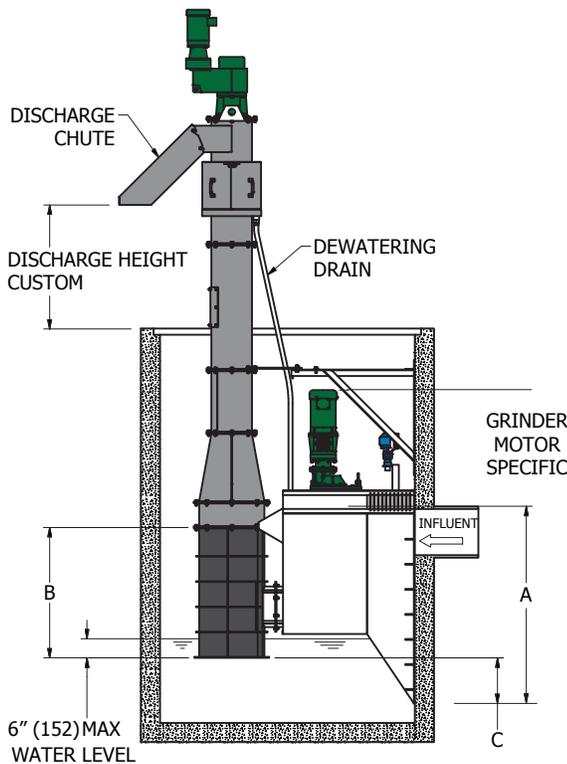
Limited*
3-Year
Auger Spiral
Warranty



Vertical Auger Monster®

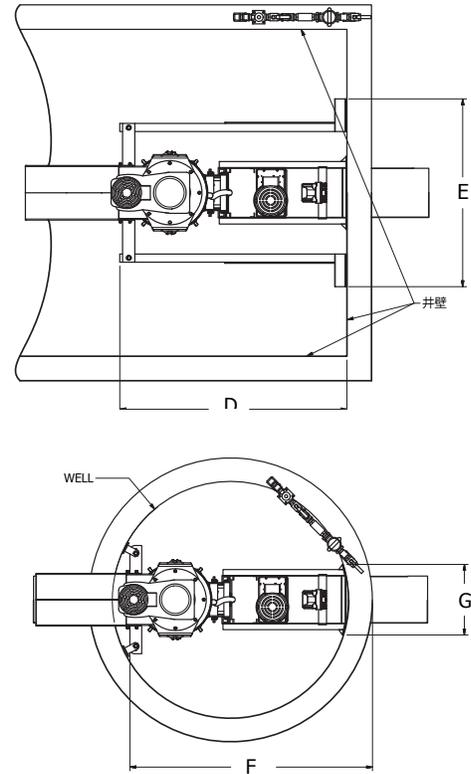
ACV Vertical Auger Monster®

The top of the line ACV Vertical Auger Monster is designed to handle a 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 m³/hr).



AGV Vertical Auger Monster®

The AGV Vertical Auger Monster incorporates in either a 30K or 40K Muffin Monster® grinders to precondition the solids before conveying them out of the pump station. It is capable flows up to 3.1 MGD (487 m³/hr).



ACV Model	Max pipe size - inch (mm)	Standard dimensions - inch (mm)			Wall mount dimensions - inch (mm)		Round wall mount dimensions - inch (mm)		Max flow* - mgd (m ³ /hr)		
		A	B	C	D	E	F	G	0% Blind	30% Blind	50% Blind
ACV1801-480	20 (500)	48-1/16 (1221)	27-1/2 (699)	14-3/8 (365)	69-3/8 (1762)	43-1/2 (1105)	70-3/8 (1788)	24-3/4 (629)	2.40 (379)	2.05 (323)	1.67 (263)
ACV2401-480	20 (500)	54-1/8 (1375)	33-1/4 (845)	14-3/8 (365)	69-3/8 (1762)	43-1/2 (1105)	70-3/8 (1788)	24-3/4 (629)	3.37 (532)	2.90 (457)	2.37 (374)
ACV3201-480	20 (500)	61-5/8 (1565)	41 (1041)	14-3/8 (365)	69-3/8 (1762)	43-1/2 (1105)	70-3/8 (1788)	24-3/4 (629)	4.81 (759)	4.18 (659)	3.44 (543)

Note: Please consult factory for final applications assistance. * Max Flow based on 6mm screening section, domestic wastewater.

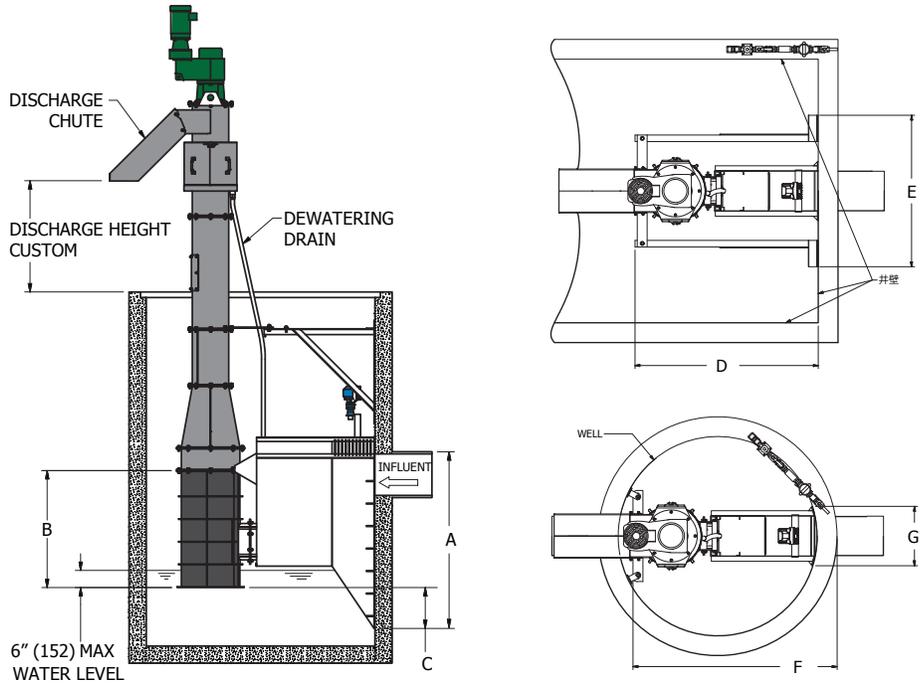
AGV Model	Max pipe size - inch (mm)	Standard dimensions - inch (mm)			Wall mount dimensions - inch (mm)		Round wall mount dimensions - inch (mm)		Max flow* - mgd (m ³ /hr)		
		A	B	C	D	E	F	G	0% Blind	30% Blind	50% Blind
AGV1801-285	12 (300)	38-1/4 (972)	27-1/2 (699)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	1.23 (195)	1.03 (162)	0.81 (128)
AGV2401-285	12 (300)	44 (1118)	32-1/2 (826)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	1.71 (270)	1.37 (217)	1.06 (167)
AGV3201-285	12 (300)	51-3/7 (1314)	41 (1041)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	2.42 (381)	1.85 (292)	1.39 (219)
AGV4001-285	12 (300)	59-3/4 (1518)	49 (1245)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	3.09 (487)	2.31 (364)	1.70 (269)
AGV1801-480	12 (300)	47-11/16 (1211)	27-1/2 (699)	14-3/8 (365)	63-1/8 (1603)	43-1/2 (1105)	64-1/4 (1632)	23-1/4 (591)	1.39 (219)	1.31 (207)	1.19 (187)
AGV2401-480	12 (300)	53-3/4 (1365)	33-1/4 (845)	14-3/8 (365)	63-1/8 (1603)	43-1/2 (1105)	64-1/4 (1632)	23-1/4 (591)	2.05 (324)	1.98 (313)	1.80 (284)
AGV3201-480	12 (300)	61-1/4 (1556)	41 (1041)	14-3/8 (365)	63-1/8 (1603)	43-1/2 (1105)	64-1/4 (1632)	23-1/4 (591)	3.08 (486)	3.00 (472)	2.73 (430)

Note: Please consult factory for final applications assistance. * Max Flow based on 6mm screening section, domestic wastewater.

Vertical Auger Monster®

ALV Vertical Auger Monster®

The ALV Vertical Auger Monster is for applications with lower solids loading and high flows. This cost effective solution will capture, convey and dewater debris utilizing a rugged dual helix auger to compact and dewater the solids. This version can hand peak flows up to 9.4 MGD (1474 m³/hr).



ALV Model	Max pipe size - inch (mm)	Standard dimensions - inch (mm)			Wall mount dimensions - inch (mm)		Round wall mount dimensions - inch (mm)		Max flow* - mgd (m ³ /hr)		
		A	B	C	D	E	F	G	0% Blind	30% Blind	50% Blind
ALV1801-285	12 (300)	38-1/4 (972)	27-1/2 (699)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	2.06 (324)	1.44 (227)	1.03 (162)
ALV2401-285	12 (300)	44 (1118)	32-1/2 (826)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	2.50 (395)	1.75 (276)	1.25 (197)
ALV3201-285	12 (300)	51-3/4 (1314)	41 (1041)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	3.09 (487)	2.16 (341)	1.54 (244)
ALV4001-285	12 (300)	59-3/4 (1518)	49 (1245)	3-1/2 (89)	55-5/8 (1413)	46 (1168)	61-9/16 (1564)	17-15/16 (456)	3.67 (579)	2.57 (405)	1.84 (290)
ALV1801-480	12 (300)	47-11/16 (1211)	27-1/2 (699)	14-3/8 (365)	63-1/8 (1603)	43-1/2 (1105)	62-3/4 (1597)	23-1/4 (591)	4.59 (725)	3.22 (507)	2.30 (362)
ALV2401-480	12 (300)	53-3/4 (1365)	33-1/4 (845)	14-3/8 (365)	63-1/8 (1603)	43-1/2 (1105)	62-3/4 (1597)	23-1/4 (591)	6.55 (1034)	4.59 (724)	3.28 (517)
ALV3201-480	12 (300)	61-1/4 (1556)	41 (1041)	14-3/8 (365)	63-1/8 (1603)	43-1/2 (1105)	62-3/4 (1597)	23-1/4 (591)	9.35 (1474)	6.54 (1032)	4.67 (737)

Note: Please consult factory for final applications assistance. * Max Flow based on 6mm screening section, domestic wastewater.

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.



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