

Compactor Clearance Requirements

Below are some general guidelines for compactor service for West Hollywood. These guidelines apply to subterranean developments. *Note: Athens Services provides hauling services and the data provided here is based on general assumptions. There are numerous factors that can impact the assumptions provided, such as the type of compactor, size, etc. It is recommended that Athens provide review of proposed waste plans prior to the City granting approval.*

Compactor Size

Size and type of the compactor vary from each account and customer need, but some standard size compactors are provided in the attached documentation. The manufacturer should provide capacity and the dimensions. The type of compactor used will also determine which type of truck will be used to haul. Contact the hauler in the planning stage and before installing compacting units.

Truck Types

Athens Services could potentially use 2 types of trucks to provide hauling services for compactors. Either a front end loading vehicle will be used, or a roll off truck will be used to service the compactor.

General Assumptions: Clearance Requirements

For self-contained compactors, a roll off truck will be used and need the following clearance requirements:

- Vertical (approach and exit) 17' high
- Vertical (rails raised with bin) 25' high
 - When moving a compactor from the direct floor, a 25' clearance (from the ceiling to the ground) is needed to allow for the hoist.
- Lateral 10' wide
- Service Area Length Minimum 75' long
- Turning Radius: (see attached radius calculations)
- Note: When moving a compactor from a dock, a wench is used that will roll the compactor from the dock directly onto the truck. The hoist cables on the truck are used to roll the compactor.

For vertical compactor service, front end loading vehicles will be used and need the following clearance requirements:

- Vertical (approach and exit) 17' high
- Vertical (when dumping bin) 25' high
- Lateral 15' wide
- Turning Radius 45'

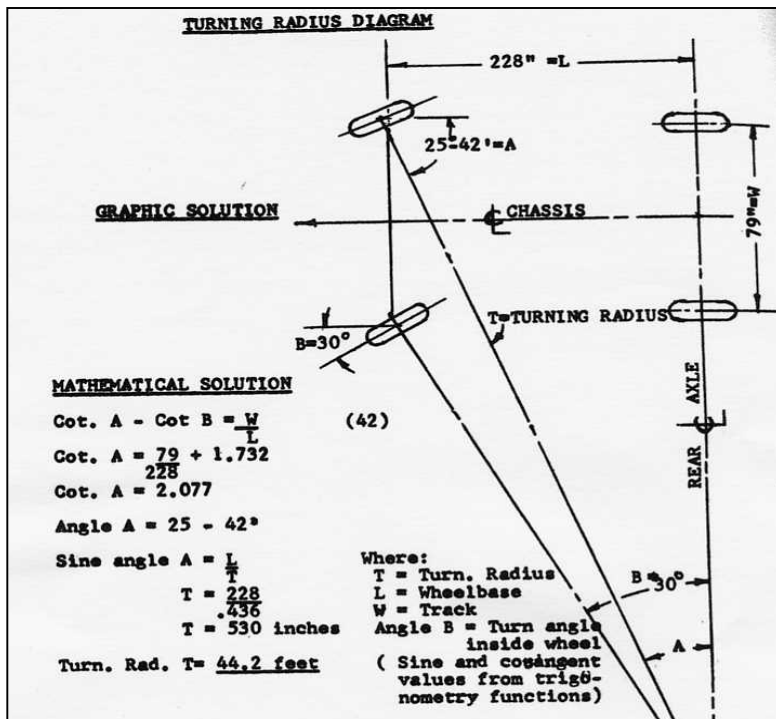
Turn Radius Calculation

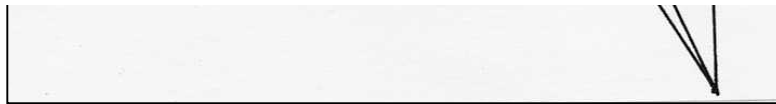
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AUTOCAR ACX W/ 50 Degree Roll-Off

Enter the known values	
Tires= 315/80R22.5	Width 12.5
Wheels= 22.5 x 9.00	Inset 3.12
Axle= Meritor 20K	drum-drum 94.08
Track = 87.84 inches	
Max Turn Angle = 50.00 degrees = 0.8726 radians	
Wheelbase = 210.00 inches	

Minimum Turning Radius = 29.74 Feet	9.064728 Meters
Curb - Curb Turn Diameter= 60.52 Feet	18.44696 Meters





Sample Turning Radius Diagram

Axle Width

	Beam	Spindle	In Brg	Hub	Drum	Dr-Dr	
FL 941		68.5	4.76	2.1	4.18	0.5	91.58
MFS20		71	4.76	2.1	4.18	0.5	94.08
MFS14		71.5	4.19	1.51	5.19	0.5	94.28

Track Calcs

	Steel					Alum
o/a width	8.25	9 (5.25)	9 (7)	12.25	13	8.25
o/a width	79.22	81.08	78.82	78.82	78.82	80.16
o/a width	81.72	83.58	81.32	84.58	83.58	82.66
o/a width				101.08	101.38	

$$\mathbf{Cot\ A - Cot\ B = W/L}$$

T = Turning Radius

L = Wheelbase

W = Track

Angle B = Turn Angle inside wheel

$$\begin{aligned} Cot\ B &= 0.8391 \\ W/L &= 0.4183 \\ Cot\ A &= 1.2574 \\ Angle\ A &= 0.6719\ \text{radians} \\ Angle\ A &= 38.50\ \text{degrees} \end{aligned}$$

$$\mathbf{Sin\ Angle\ A = (L/T)}$$

$$\begin{aligned} Sin\ A &= 0.6224 \\ T &= 337.38\ \text{inches} \\ T &= 28.12\ \text{feet} \end{aligned}$$

Tandem Axle Scrub Factor= 1.04

4x2	1.00
6x4	1.04
8x4	1.08

MFS-20	94.12
FL Drum-Drum	91.62
FG Drum-Drum	92.25

Note: .5 thick drum

Tire	Width
315/80R22.5	12.5
11R22.5	11.3
12R22.5	11.4
385/65R22.5	14.9
425/65R22.5	16.5
445/65R22.5	17.8
455/55R22.5	17.6
Steel	
8.25	6.18

9	7	6.38
9	5.25	5.25
12.25	4.75	4.75
13	5.25	5.25

Alum

8.25		5.71
9	7	6.02
9	3.12	3.12
12.25		4.75
13		5.25

9 (3.12)	9 (7)	12.25	13
85.34	79.54	82.08	81.08
87.84	82.04	84.58	83.58

Self-Contained Compactors

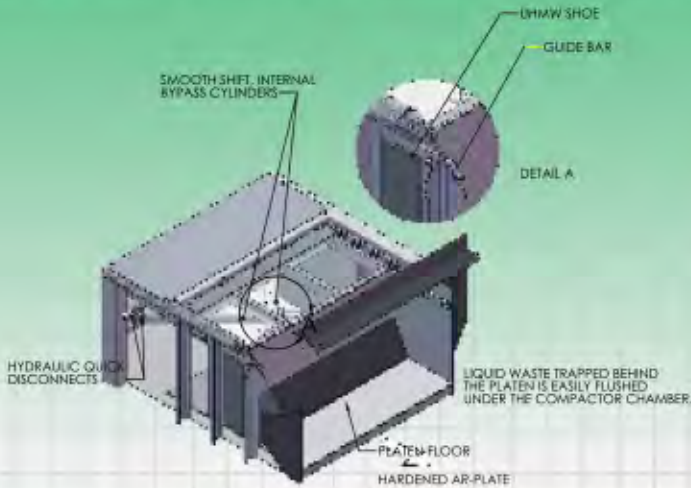


CRAM-A-LOT®
J.V. Manufacturing, Inc.
Solid Waste & Recycling Equipment



“Equipping The World For A Better Environment”

Features



Ram Guide System

The Self-Contained cross cylinder ram features side mounted full length Ultra-High Molecular Weight (UHMW) guides to support the ram providing uncompromising longevity and reliability.

Door Protector

Prevents roll-off hoist cable from contacting the door frame, preventing bent doors and leaking seals.

Lockable Door Latch

Hopper door can be locked preventing unauthorized usage.

Sub Floor Sump

Self-Contained Compactor sub floor is separated from the container floor to form a tunnel to allow liquids to drain from behind the ram when emptying.

Programmable Relay Controls

Self-Contained Compactors by Cram-A-Lot are designed to use a readily available non-proprietary programmable relay.

Single Piece Side Sheet and Floor

Cram-A-lot's manufacturing plant uses a 30 foot 500 ton press break to form sides and floors allowing no vertical seams.

Rear Gate Hinge & Seal

Self-Contained Compactors have a full door seal and a 3 point door latch that provides excellent compression and sealing properties.

Rust Inhibiting Primer

Self-Contained Compactors are primed with rust inhibiting red oxide primer to reduce corrosion.

All Cram-A-Lot compactors conform to all current ANSI Z 245.2 safety standards

All information is subject to engineering and/or other changes without notice.



500 Ton 30 ft Press Break >

< Remote Power Unit



Door Protector >



< Door Latch w/Padlock Hasp



< Catch Latch



< Full Door Seal

Rust Inhibiting Primer



Door Custom Fitted to Container >

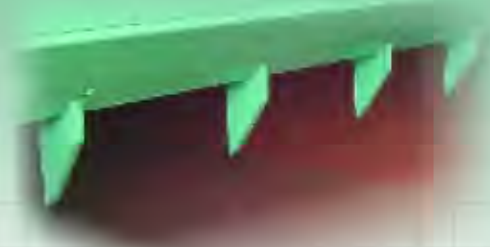
Special Options Available



Remote Controls



Color Coded Pressure Gauge



Hinged Breaker Bar Teeth

Key Operation

All compactors, come with on/off switch as mandated by ANSI Z 245.2 safety standards. Cram-A-lot offers additional options for increased levels of safety.

Color Coded Pressure Gauge

The color coded gauge indicates 50%, 75% and 100% fullness. The gauge is more accurate than fullness lights.

Oil Heater

Ideal for cold climate areas. The oil heater automatically maintains the oil at 70 degrees.

Hinged Breaker Bar Teeth

Hinged breaker bar teeth hold trash in place, preventing trash from springing back into the chamber.

Ozone Odor Neutralizer

Odor neutralizers like the Sonozaire circulate the ozone, permitting it to search out and destroy odor molecules. The result is a clean-smelling area, which does not harbor and protect bacteria ending odor complaints and assuring customer satisfaction.



Oil Heater



Odor Neutralizer

Warranty

Cram-A-Lot® 1-2-3 Warranty

J.V. Manufacturing will furnish without charge:

- 1) All parts and labor expenses through the first year of ownership to remedy any faults proven to be the result of defective materials or workmanship.
- 2) All parts through the second year of ownership to remedy any faults proven to be the result of defective materials or workmanship.
- 3) All labor expenses through the third year of ownership to remedy any structural faults proven to be the result of defective materials or workmanship.

This warranty does not apply to any damage caused by negligence, misuse, modifications, alterations, or accidents by purchaser or third parties.

Refer to operation manual for specific warranty coverage.

Standard and Special Applications



Hydraulic Tailgate



**Integral Rear Feed
Cart Dumper**



**Side Load
Through-The-Wall
Break-A-Way Hopper**



**Walk-On
Full Enclosure**



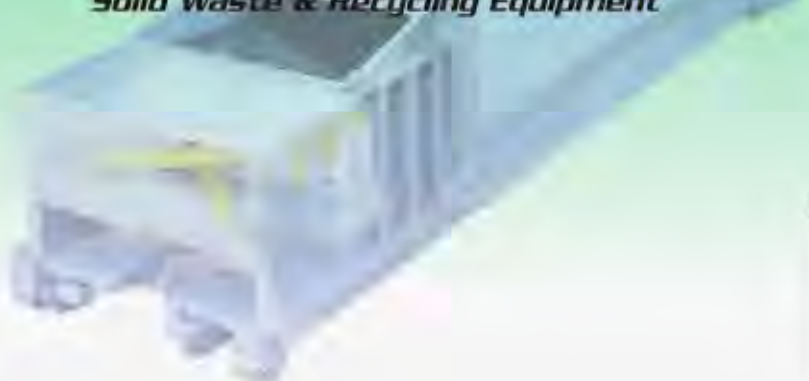
**Rear Load
Through-The-Wall
Break-A-Way Hopper**



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ELECTRICAL FEATURES ON ALL MODELS

UL Listed Control Panel

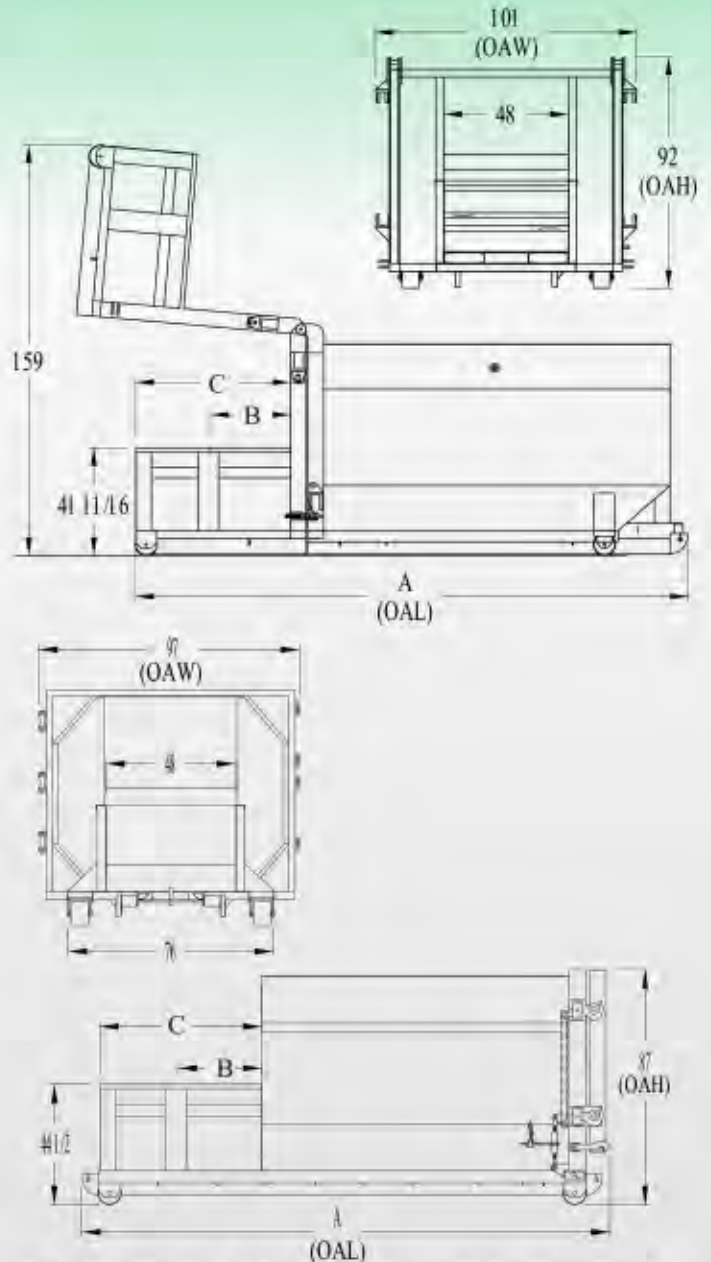
Only Major Brand Electrical Components Used

Weather Tight Electrical Enclosure

**ONE YARD
SELF-CONTAINED COMPACTOR
Specifications**

		SC-T1-10/15/20	SC-T1-16/20/25-HTG
Charge Box Capacity		1 Cu Yd	1 Cu Yd
WASTEC Rating		0.75 Cu Yd	0.75 Cu Yd
Clear Top Opening		46"	46"
Theoretical Cycle Time		28 Sec	28 Sec
Total Force	Normal	44,200 lbs	44,200 lbs
	Maximum	53,000 lbs	53,000 lbs
Ram Face Pressure	Normal	40.0 Psi	40.0 Psi
	Maximum	48.0 Psi	48.0 Psi
Ram Face Dimensions, W X H		48" x 23"	48" x 23"
Ram Penetration		6"	6"
Motor - 3Phase - 208/230/460 Vac		10 Hp	10 Hp
Pump Capacity		10.5 Gpm	10.5 Gpm
Hydraulic Reservoir Capacity		22 gal	22 gal
Hydraulic Cylinder	Bore Dia.	Two, 4"	Two, 4"
	Stroke	26"	26"
	Rod Dia.	2"	2"
Operating Pressure	Normal	2000 Psi	2000 Psi
	Maximum	2400 Psi	2400 Psi

DIMENSIONS	(A)	(B)	(C)	BASE UNIT WEIGH	NORMAL CONTAINER CAPACITY
	OVER ALL LENGTH	CLEAR TOP LENGTH	PACKER LENGTH		
SC-T1-10	13' - 2"	31"	60"	6,500 lbs	10 CU YD
SC-T1-15	16' - 6"	31"	60"	7,000 lbs	15 CU YD
SC-T1-20	19' - 10"	31"	60"	7,500 lbs	20 CU YD
SC-T1-16-HTG	18'	31"	60"	8,000 lbs	16 CU YD
SC-T1-20-HTG	19' 8"	31"	60"	8,200 lbs	20 CU YD



** Above drawings are shown with universal understructures. **

Self-Contained Compactors Units can be custom designed and factory installed to suit your special applications

Leasing and Rental Programs Available



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ELECTRICAL FEATURES ON ALL MODELS

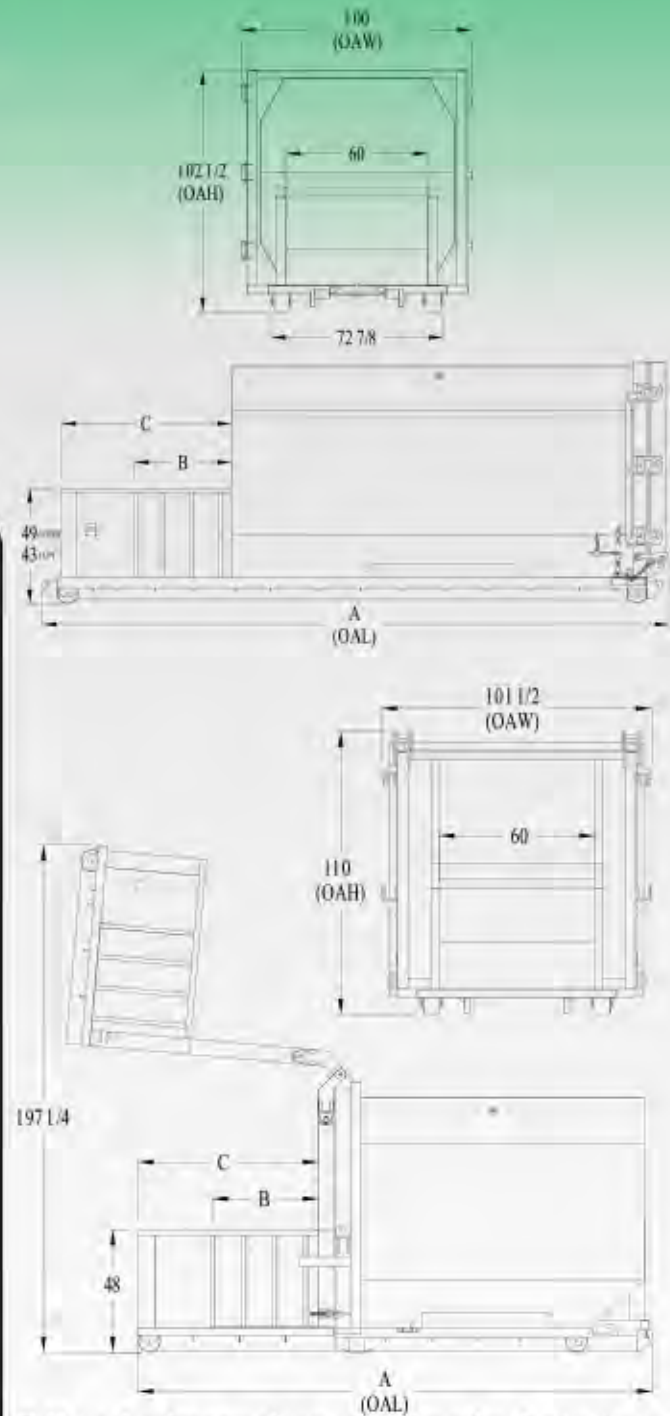
- UL Listed Control Panel
- Only Major Brand Electrical Components Used
- Weather Tight Electrical Enclosure

TWO YARD SELF-CONTAINED COMPACTOR

Specifications

	SC-T2-20/25/30/34/38	SC-02-20/25/30/34	SC-T2-20/25/30/34-HTG
Charge Box Capacity	2 Cubic Yard	2 Cubic Yard	2 Cubic Yard
WASTEC Rating	1.52	1.31	1.52
Clear Top Opening	41" x 58"	34" x 58"	41" x 58"
Theoretical Cycle Time	37 Sec	32 Sec	37 Sec
Total Force			
Normal	42,700 lbs	39,300 lbs	42,700 lbs
Maximum	51,250 lbs	47,100 lbs	51,250 lbs
Ram Face Pressure			
Normal	24.5 Psi	22.6 Psi	24.5 Psi
Maximum	29.5 Psi	27.1 Psi	29.5 Psi
Ram Face Dimensions, W X H	60" x 29"	60" x 29"	60" x 29"
Ram Penetration	8"	5.5"	8"
Motor - 3Phase - 208/230/460 Vac	10 Hp	10 Hp	10 Hp
Pump Capacity	10.5 Gpm	10.5 Gpm	10.5 Gpm
Hydraulic Reservoir Capacity	22 GAL	22 Gal	22 Gal
Hydraulic Cylinder			
Bore Dia.	Two - 4"	5"	Two - 4"
Stroke	34"	40"	34"
Rod Dia.	2"	3"	2"
Operating Pressure			
Normal	2000 Psi	2000 Psi	2000 Psi
Maximum	2400 Psi	2400 Psi	2400 Psi

DIMENSIONS	(A)	(B)	(C)	BASE UNIT WEIGHT	NORMAL CONTAINER CAPACITY
	OVER ALL LENGTH	CLEAR TOP LENGTH	PACKER LENGTH		
SC-T2-20	17' 4"	41"	71"	9800 lbs	20 CU YD
SC-T2-25	19' - 11"	41"	71"	10,000 lbs	25 CU YD
SC-T2-30	22' - 1"	41"	71"	10,800 lbs	30 CU YD
SC-T2-34	23' 9"	41"	71"	10,900 lbs	34 CU YD
SC-T2-38	25' - 10"	41"	71"	12,000 lbs	38 CU YD
SC-02-20	19'	34"	90 1/2"	9,860 lbs	20 CU YD
SC-02-25	21' - 7"	34"	90 1/2"	10,100 lbs	25 CU YD
SC-02-30	23' - 9"	34"	90 1/2"	10,800 lbs	30 CU YD
SC-02-34	25' - 5"	34"	90 1/2"	10,900 lbs	34 CU YD
SC-T2-20-HTG	17'	41"	71"	10,260 lbs	20 CU YD
SC-T2-25-HTG	19' - 8"	41"	71"	10,900 lbs	25 CU YD
SC-T2-30-HTG	21' 9"	41"	71"	11,540 lbs	30 CU YD



** Above drawings are shown with universal understructures. **

CORPORATE	CRAM-A-LOT® CENTRAL	CRAM-A-LOT® WEST	DISTRIBUTED BY:
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Self-Contained Compactors



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Standard and Special Applications



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