

# 5225C

BOTTOM DUMP SALT HAULER



**GROSS ENGINE HORSEPOWER**

1050 hp - 783 kW

**MAXIMUM GVW-APPROXIMATE**

1,369,614, lb - 621,246 kg

**Dart**  
Truck

# 5225C BOTTOM DUMP SALT HAULER

## WALK-AROUND



### Operators Station and Control

- Spacious Cab with Excellent Visibility
- Two Full Access Doors For Easy Entry
- Ergonomically Designed Cab
- Dual Digital Instrumentation Display
- Full-size Driver and Trainer Air Ride Seats
- Acoustically Engineered and Vibration Isolated



**Safe • Simple •**

## WALK-AROUND

### Power Train

- Optional Cummins QST30 Tier II Engine
- Optional MTU 2000 Tier 4i Engine
- Allison H9610 Six Speed Transmission
- Dart D300 Drive Axle Assembly
- Gear Ratio Matched to Mine Specific Application

### Structures

- Proven Durable Dart Box Beam Frame
- Integral Operator Diagonal Boarding Stair
- Decking and Railing for Operator Safety
- 775 Gal Fuel Tank Provides Hours of Operation
- Trailers with Large Access Covers for Service and Visible Checks
- Isolated Steering Tank Oil Reservoir
- Automatic Lubrication System

### Brakes and Pneumatics

- Dry Drum Friction Brakes
- Pneumatic Braking System
- Gear Engaged Parking Brake
- Easy to Service Air tanks
- Drive Axle and Trailer Axle Brakes
- Brake Fluid or Mineral Oil Braking fluid

### Suspension

- Large Front Gas-oil Strut Suspension
- Drive Axle Rubber Column Suspension
- Five Rod Frame to Axle Connection System



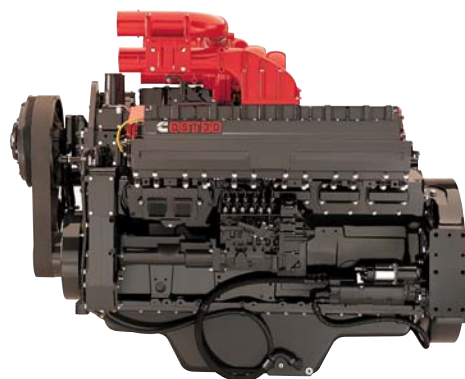
**Durable • Innovative**

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1050 hp - 783 kW

**MAXIMUM GVW-APPROXIMATE**  
1,369,614 lbs - 621,246 kg

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## SPECIFICATIONS



### CUMMINS ENGINE

Model.....Cummins QST30  
Type.....Water-cooled 4-cycle  
Aspiration.....Turbo-charged/charge air-cooled  
Number of Cylinders.....12  
Bore and Stroke.....5.51" x 6.50"/140mmx 165mm  
Rated Horsepower.....SAE J1995 Gross 1050 HP/783 kW  
@ RPM 2,100  
Fan Drive Type.....Thermostatic hydraulic—clutching  
Maximum Torque.....3414 lb. ft./4629 N-m  
Fuel System.....Direct injection  
Governor.....Electronic control  
Lubrication System.....Gear pump, force-lubrication  
Filter.....Full-flow type  
Pre Lube System

Air Cleaner - Dry type / double elements pre-cleaned with dust indicators

\*Optional 1,200 Horsepower engine available

**\*Optional Tier 4 engine configuration available**



### MTU ENGINE

Model.....MTU 12V 2000 C66 Tier 4  
Type.....12V  
Aspiration.....Two-stage turbocharge / air cooled  
Number of Cylinders.....12  
Bore and Stroke.....5.3" x 6.15"/135mmx 156mm  
Rated Horsepower.....12V-1050HP/783 kW  
@ RPM 2,100  
Fan Drive Type.....Thermostatic hydraulic - clutching  
Maximum Torque.....12V-3423 lb. ft./4640 N-m  
Fuel System.....Electronically controlled common-rail  
injection system  
Governor.....Electronic control  
Lubrication System.....Forced feed lubricating system  
with piston cooling  
Filter.....Multi-stage oil filter  
Pre Lube System

Air Cleaner - Dry type / double elements pre-cleaned with dust indicators

### SERVICE CAPACITIES

Fuel Tank (standard)..... 775 U.S. Gal. - 2,933 ltr.  
Engine Oil..... 37.5 U.S. Gal. - 142 ltr.  
Transmission..... 39 U.S. Gal. - 147 ltr.  
Steer Wheels (each end).....1.75 U.S. Gal. - 6.7 ltr.  
Differential.....43 U.S. Gal. - 162 ltr.  
Planetaries (each end).....17.5 U.S. Gal. - 66 ltr.  
Steering Control.....67 U.S. Gal. - 253 ltr.  
Trailer Axle Wheels.....3.5 U.S. Gal. - 13.2 ltr.  
Engine Coolant.....65 U.S. Gal. - 246 ltr.

### DRIVE AXLE

DA300 - Cast drive axle housing with bolt on stub ends. Double reduction gearing with two piece axle shafts and continuous pressure lubrication, filtration, and oil cooling.

#### GEAR RATIO:

Differential..... 3.84:1  
Planetary.....7.85:1  
Total..... 30.14:1

# SPECIFICATIONS

## STEER AXLE / STEERING

Meets SAE J1511, ISO 5010

SA132 – Steer axle beam is rigid box construction with knuckle type spindles and king pins.

Hydrostatic power steering system using twin double acting hydraulic cylinders.

Independent 60 gallon oil reservoir with 6 micro filter.

Supplementary steering electrically driven hydraulic motor allowing three full 90° turns in the event of engine or pump failure

Maximum Steering Angle.....40°

Wall to Wall Turn Clearance.....82 ft- 25 m

## MAIN FRAME

Type.....190" Wheel Base Box Section Structure

Strategically located castings for high stress areas with integral front bumper and operator staircase. Front tow hooks standard.

## BRAKES

Drive Axle - Air over hydraulic dry drum braking system

Trailer Axle - Air over hydraulic dry drum braking system

Size: Rear/Trailer.....36"X12" dual shoe, 2 wheel cylinders

Service Brake - Pedal operated and modulated up to 100 % of braking effort.

Park Brake - Axle locking, heavy duty gear mesh engaged.

Emergency Braking - All wheel brakes applied.

## RIMS / TIRES TRACTOR

Standard Rim Assembly.....22 x 51

Standard Tire.....30.00R51

## RIMS / TIRES TRAILER & DOLLY

Standard Rim Assembly.....24 x 51

Standard Tire.....33.00R51



## TRANSMISSION

Model.....Allison H9610 Remote Mounted Torque Converter.....3-Element,1-Stage, Polyphase Transmission.....Constant Mesh Spur Type Planetary Lockup Clutch.....Wet, Hydraulic Multi-Disc Clutch Shift Control.....Fully Automatic CEC5 Electronic Controls Gear Range.....6 Forward Speeds, and Reverse

Ranges / Ratio:	1st - 4.24:1	4th - 1.67:1
	2nd - 3.05:1	5th - 1.00:1
	3rd - 2.32:1	6th - 0.72:1
Reverse:	1st - 5.75:1	

## SUSPENSION

Steer - Two low pressure nitrogen charged oil filled self contained hydraulic struts with five rod axle to frame connections.

Drive - Eight rubber column elements with frame mounted "J" bracket rebound mechanisms. Rebound brackets include rubber load pads.

Trailer - Direct axle to trailer frame mount.

Dolly - Eight rubber column elements with frame mounted "J" bracket rebound mechanisms.

## SAFETY

- Ground Level Engine Shutdown
- Slip Resistant Foot Traffic Areas
- Lock Out / Tag Out Location
- Supplemental Steering
- Boarding and Decking Handrails/Toe Boards
- Mud Flaps
- 18 Nozzle Fire Suppression System
- 10 lb. Hand Held Fire Extinguisher

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## SPECIFICATIONS

### TRAILER BODY

Struck.....	178 yd <sup>3</sup> - 136 m <sup>3</sup>
Heaped (3:1 SAE).....	205 yd <sup>3</sup> - 157 m <sup>3</sup>
Payload.....	225 tons - 204 Mt
Total Payload (combine).....	450 tons - 408 Mt

### TRAILER HITCH

20" diameter universal ball hitch with bronze bushings in all tractor and trailer locations.

### TRAILER PNEUMATICS

Each trailer has its own set of air components designated to work that respective trailer.

Air Components Include: Main Tank, Emergency Reserve Tanks, RE-6 Valves, High Quality Air Hoses, and Stainless Steel Tubes and Fitting to Resist Corrosion.

Door Cylinder Size.....20.0"

### TRAILER AXLE

Model TA311 tubular axle with bolt on stub ends, oil lubricated wheel bearings and outboard bolt on brakes.

### DOLLY AXLE

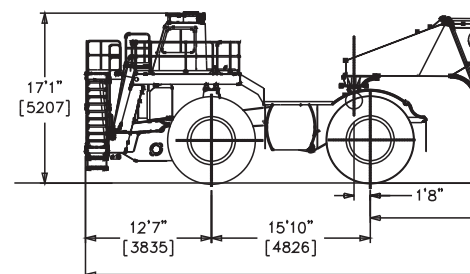
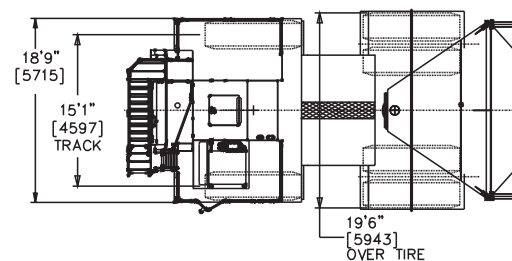
Model TA311 tubular axle with bolt on stub ends, oil lubricated wheel bearings, no brakes.

### ELECTRICAL SYSTEM

Electrical System.....	24V
Alternator 100 Amp .....	24V
Batteries 8D.....	2
Headlights-HID.....	4
Clearance/Parking Marker Lights - LED.....	4
Stop/Tail Lights - LED.....	2
Turn Indicators - LED.....	6
Reverse Lights - LED.....	2
Reverse Alarm.....	1
Engine Compartment Lights - LED.....	2
PowerPort - 12 VDC.....	2
Ground Level Engine Shutdown.....	1
Master Battery Disconnect - Lock Out/Tag Out.....	1
Air Starter.....	2

### CAB

- Two Full-Size Cab Access Doors
- Operator and Passenger Slide Windows
- Center Console Contains Transmission Gear Selector
- Tilt and Telescoping Steering Column with Integral Horn Button
- Pressurized, Filtered Heater, Air Conditioner, Defrost
- Air Suspension Severe Duty, Operator and Passenger Seats with Built in Air Compressor
- 3-Speed Windshield Wipers with 1 Gallon Wash Tank
- Operator Accessible Sealed Rocker Switches for Trouble Free Operation
- Engine and Transmission Diagnostic Ports
- AM/FM Radio with Auxiliary Input Jack.
- Easy Access Circuit Breaker Panel
- Turn Signal Switch and Headlight Dimmer
- Dual Cup Holders in Center Console
- Mounting and Pre-wired for Two-way Radio



EVW	80,382 LB.	107,003 LB.
PL	22,586 LB.	191,811 LB.
GVW	102,968 LB.	298,814 LB.

## PERFORMANCE



Twin Digital Display



State-of-the-Art Cab

### IN DASH DISPLAY

- Twin Full Color Powerview LCD Displays That Monitor Vehicle Functions, J1939 Compliant
- Speedometer • Fuel Level • Differential Temperature
- Tachometer • Activation Indicators
- Gear Selected//Lock Up Indicator • Voltmeter
- Warning and Fault Indicators • Hour Meter
- Air Filter Restriction Indicator • Park Brake
- Engine Oil Pressure, Temperature
- Transmission Pressure, Temperature
- Coolant Temperature • Hydraulic Temperature

### OPTIONS

#### Accessories

- Wheel Chocks
- Forward/Reverse Camera
- Front & Rear Detection Radar

#### Electrical System

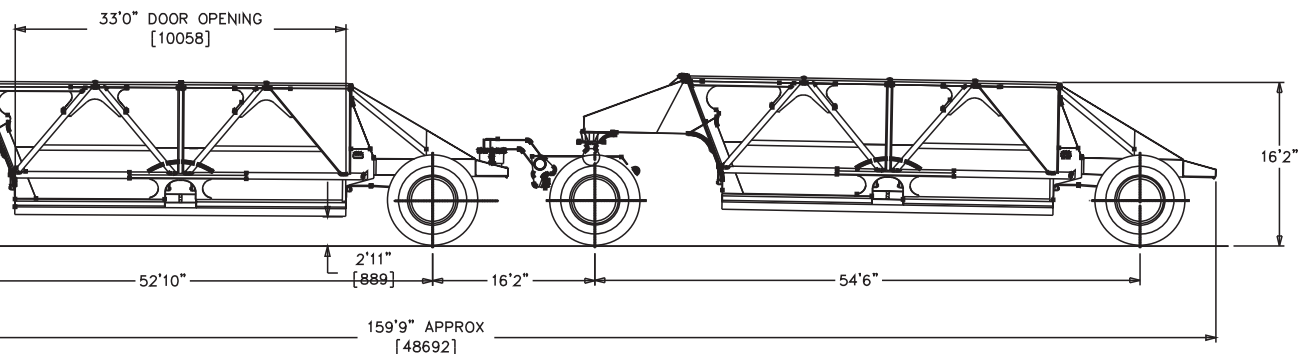
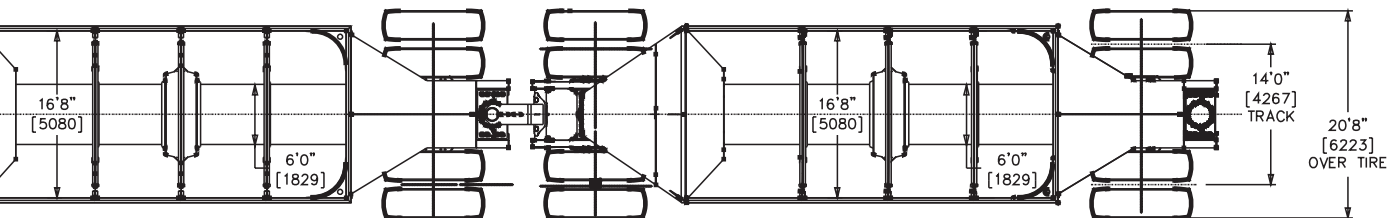
- Fog Lights
- High Capacity Alternator
- Bluetooth Radio
- Extra Truck Lighting

#### Other

- Transmission P.T.Os and Pumps
- Ground Level Remote Jump Start Station
- Vehicle Safety Striping
- High Efficiency Fan

#### Cold Weather

- Fuel Heater
- Engine Pan Heater
- Transmission Pan Heater
- Engine Coolant Heater
- Heated Mirrors



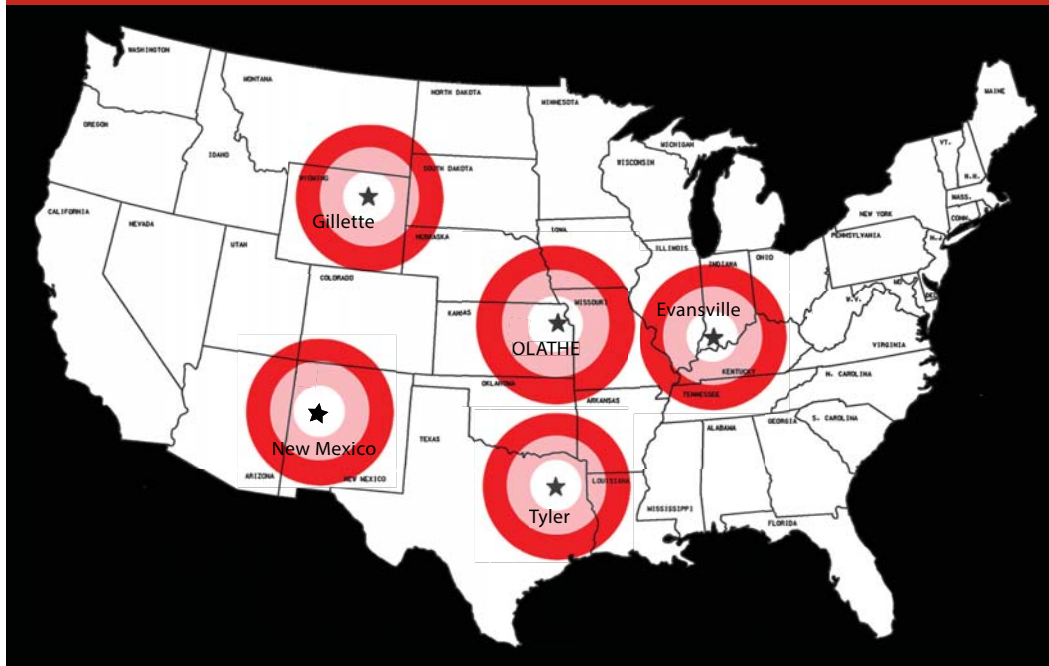
96,773 LB.  
243,495 LB.  
340,268 LB.

93,753 LB.  
207,481 LB.  
301,234 LB.

91,703 LB.  
234,627 LB.  
326,330 LB.

TOTAL  
469,614 LB.  
900,000 LB.  
1,369,614 LB.

# Locations Nationwide



## Midwest Branch

EVANSVILLE, INDIANA

2418A North First Avenue  
Evansville, Indiana 47710  
Office: 812.464.3911  
Fax: 812.464.2717

## Mountain West Branch

GILLETTE, WYOMING

3202 Hackathorne  
Gillette, Wyoming 82716  
Office: 307.682.6500  
Fax: 307.686.0724

## Southern Branch

TYLER, TEXAS

2014 Deerbrook Drive  
Tyler, Texas 75703  
Office: 903.534.1600  
Fax: 903.534.1612

## New Mexico Warehouse

MILAN, NEW MEXICO

1700B Juniper Rd  
Milan, New Mexico

## Corporate Office and Plant

OLATHE, KANSAS

15600 U.S. 169 South  
Olathe, Kansas 66062

P.O. Box 748  
Olathe, Kansas 66051

Office: 913.782.4000  
Fax: 913.782.2651

# Rimpull

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



DART 2085 - 85 TON (77.1t) PAYLOAD



DART 3100B - 100 TON (91t) PAYLOAD



DART 3120B - 120 TON (109t) PAYLOAD



DART 4120B - 120 TON (109t) PAYLOAD



DART 4160B - 160 TON (145t) PAYLOAD



DART 4175B - 175 TON (159t) PAYLOAD



DART 4180B - 180 TON (163t) PAYLOAD



DART 4220B - 220 TON (199t) PAYLOAD



DART 5140C -  
420 TON (381t) PAYLOAD



DART 5225C -  
450 TON (408t) PAYLOAD



PRIME MOVER CONVERSIONS 120 - 280 TON



WT 20 - 20,000 GALLON (75,700 L) CAPACITY



WT 30 - 30,000 GALLON (113,500 L) CAPACITY



RT20/30 - 10x10 - 20/30 TON (18/27t) PAYLOAD



RT50T - 14x14 - 50 TON (45t) PAYLOAD



RT80 - 10x10 - 80 TON (73t) PAYLOAD

Specification Number: (010-574) 8-18-2016

Materials and specifications are subject to change without notice.  
Photos may include optional equipment. Rimpull and Dart are registered  
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