

# PRODUCT CATALOGUE



# TRIDENT

MINING SYSTEMS



6075 King street  
Porcupine, ON  
Canada, P0N 1C0  
[www.tridentgroup.ca](http://www.tridentgroup.ca)

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# Trident Mining Systems



Trident Mining Systems is the industry leader in re-manufacturing of all types of equipment for underground mining. In addition, Trident also produces its own proprietary line of underground equipment. From major rebuilds and system design, to original equipment manufacturing, remote control systems and the sales and leasing of previously owned equipment, Trident has an underground equipment solution for anyone looking for mine site production efficiency.

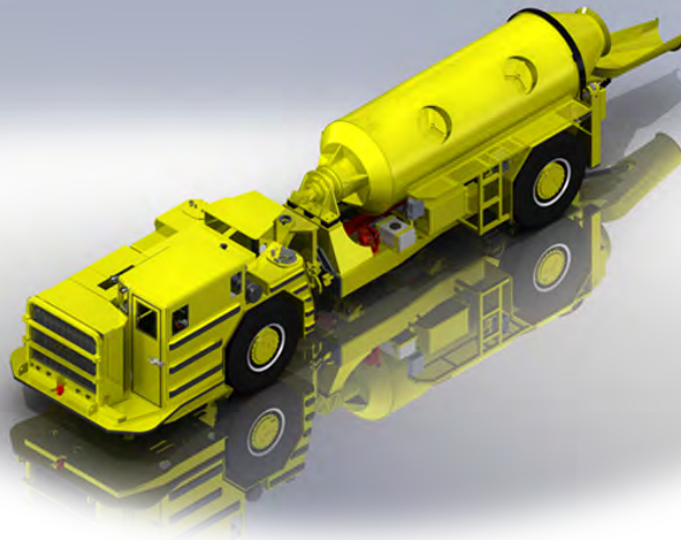


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# M-510 TRANSMIXER

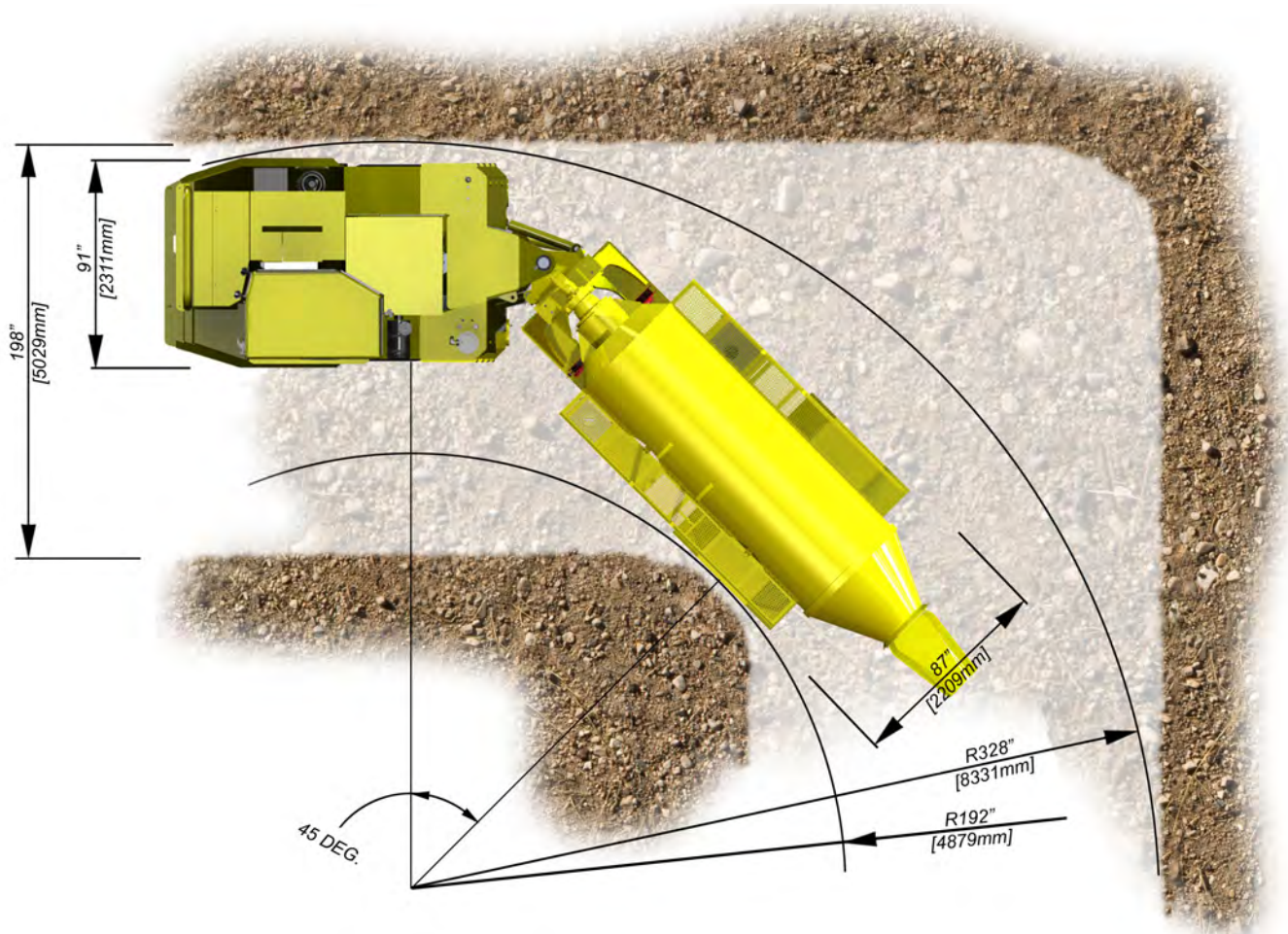
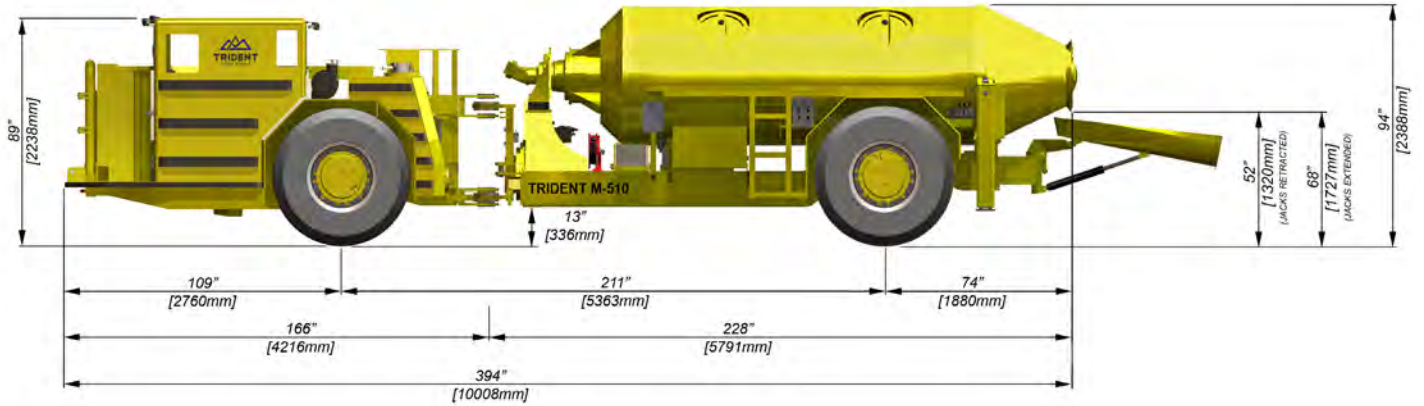
The M-510 Transmixer is a heavy-duty mixer with a drum capacity of 5.1 cubic yards, run by a 220 HP Cummins QSB 6.7 Series Diesel engine. Like all of the Trident Mining Systems vehicles, it features an air-conditioned ROPS operator cab (open cab also available), a 24V electrical system, electrical transmission controls, joystick operated steering and drum, an automatic fire suppression system, and emergency steering and braking system accumulators.



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# M-510 TRANSMIXER



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# M-510 TRANSMIXER

## STANDARD FEATURES

- Rated Load Capacity: 27,000lbs. (12,247 kg.)
- Drum Capacity: 6.7 Cubic Yard. (5.1 Cubic Meter.)
  
- Heavy Duty Powertrain.
- Engine: Cummins QSB6.7 Series Diesel Tier 3
- Torque Converter: Dana C-320 Series with Optional Lock-Up
- Transmission: Dana R-32000 Series
- Axles: Dana 16 D 2149 Planetary Drive Axle with Liquid Cooled Posi-Stop Brakes.
  
- Center Articulated Hydraulic Steering.
- Central Lube Stations.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
  
- Enclosed Air Conditioned and/or Heated R.O.P.S Operator Cab.
- Open Cab Version Available.
- 24v Electrical System.
- Military Spec. Wiring System
- Electric Transmission Controls.
- Hydraulic Pilot Operated Joystick Steering Controls.
- Fire Suppression System.
- Back Up Alarm.
- Emergency Steering & Braking System Accumulators.
- 17.50 R25 Tires
- Mixer is hydraulically driven through a planetary gear reducer.
- Internal Drum Flutes provide mixing and discharge capabilities without drum tilting.
- Form Oil Tank, Pump and Hose Reel
- Variable Speed Bi-directional Drum Rotation allows for various mixing speeds and controlled discharge rates.
- Hydraulically Driven Pressure Washer

# M-510 TRANSMIXER

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	394 in.	(10,008 mm.)
Total Width:	91 in.	(2311mm.)
Total Height:	94 in.	(2388mm.)
Inner Turn Radius:	192 in.	(4879mm.)
Outer Turn Radius:	328 in.	(8331mm.)
Turn Angle:	45.0 Degrees	

### WEIGHTS

Operation Weight:	44,395 lbs	(20,137kg.)
Total Loaded Weight:	71,395 lbs	(32,384kg.)

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	17.50R25
------------	----------

### DRUM

Capacity:	6.7 Cubic Yard (5.1 Cubic Meter)
Drum Height:	94 in. (2388mm.)

### ENGINE

Diesel Engine:	Cummins B6.7 Series Tier 3
Output:	220HP (164KW)
R.P.M:	2200
Cylinders:	6
Displacement:	409 Cubic Inch (6.7L)
Combustion Principle:	Direct Injection/Turbo Charged

### POWERTRAIN

Transmission:	Dana R-32000 Series
Torque Converter:	Dana C-320 Series (Lock-Up Optional)
Axles:	Dana 16D 2149 (Posi-Stop)

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# M-510 TRANSMIXER

## OPTIONAL EQUIPMENT

- Torque Lock Up
- Telma Brake Retarder system
- Double walled exhaust
- Wrapped Exhaust
- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Easy access engine skid pan
- Radiator access points via slotted radiator shrouds
- Transmission: Electric modulated powershift
- Operator Compartment: Open Canopy, ROPS
- Operator Compartment: Open Cab, ROPS
- Operator Compartment: Closed Cab, ROPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab
- HTI Manifold and Turbo
- Air Operated Emergency Drum Drive
- Stainless Steel Accelerator Tank and Transfer Pump
- Rear Stabalizer Jacks which can lift rear of transmixer 16" in height.



# HAUL TRUCKS

The H-Series Haul Trucks are heavy-duty vehicles with dump and ejector boxes capacity ranging from 12.9-17 in<sup>3</sup>. It features an insulated air-conditioned ROPS operator cab (open cab and canopy also available), a 24 volt electrical system, electrical transmission, joystick operated steering and box controls, an automatic fire suppression system, back up alarm, and emergency steering and braking system accumulators.

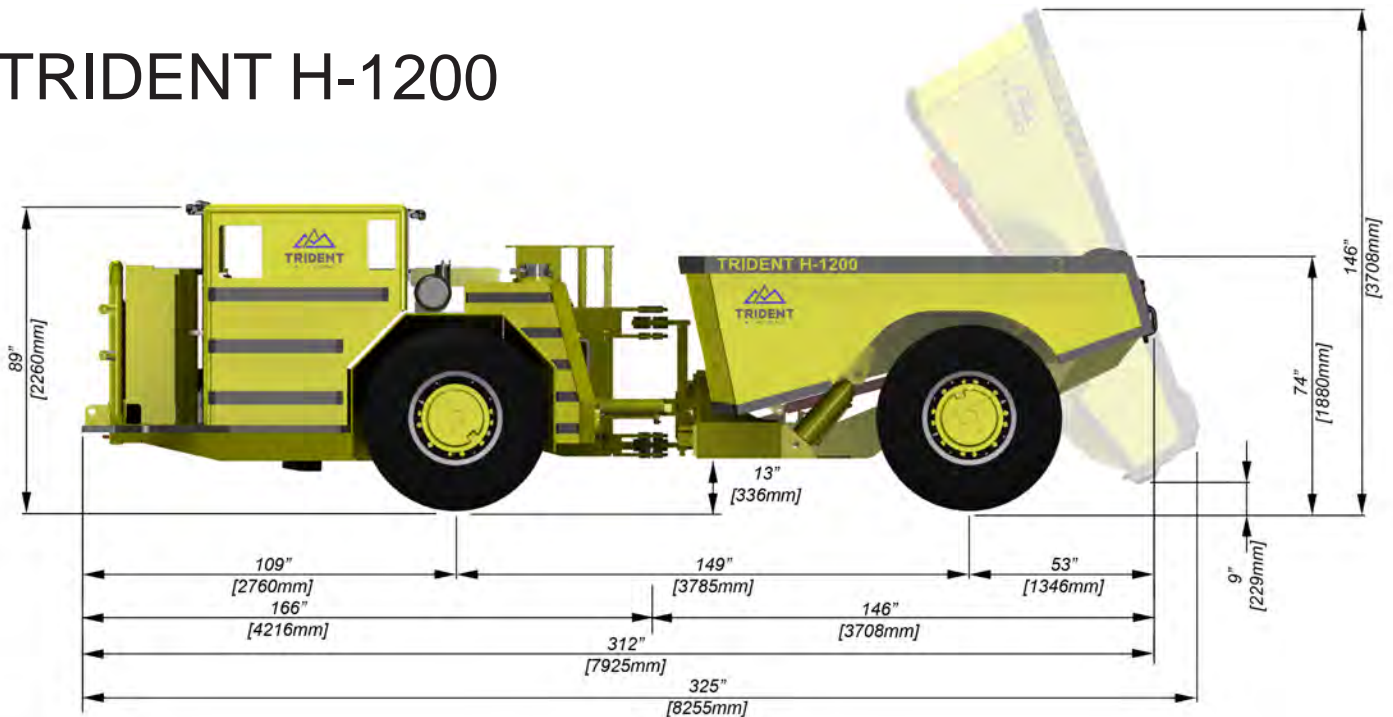


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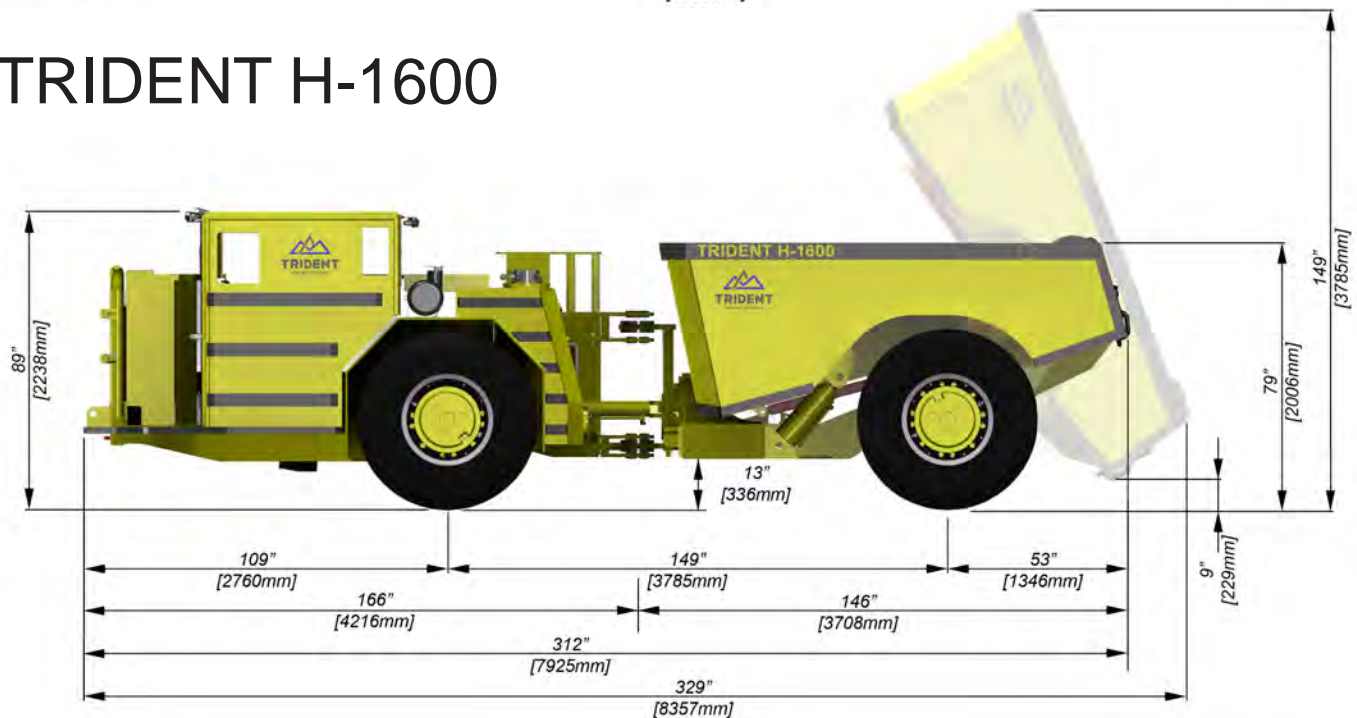
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# HAUL TRUCKS

## TRIDENT H-1200



## TRIDENT H-1600

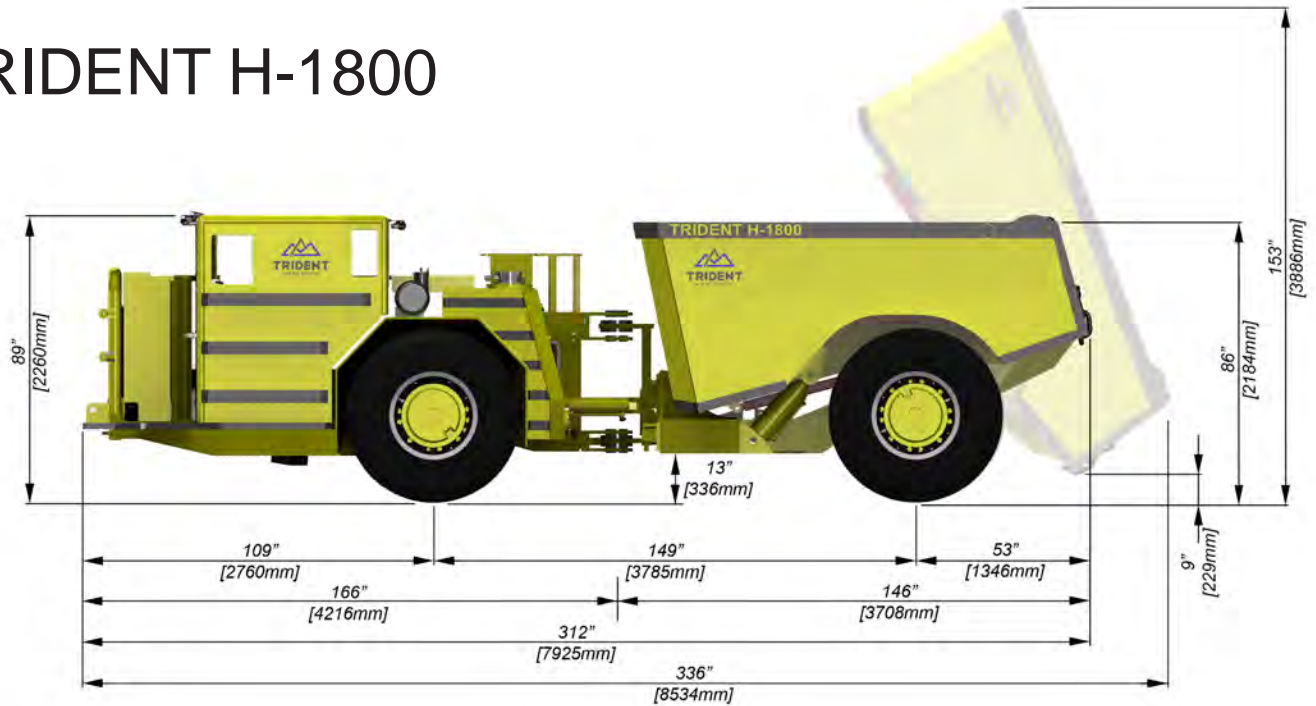


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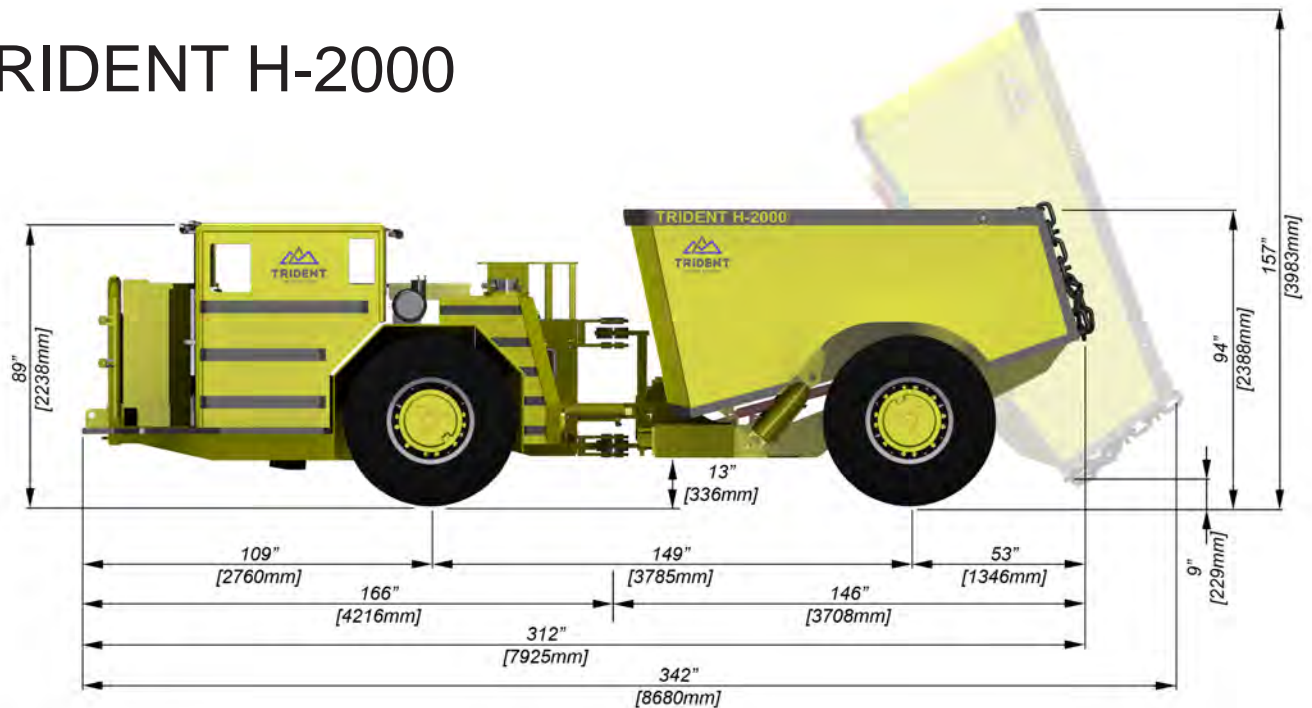
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# HAUL TRUCKS

## TRIDENT H-1800



## TRIDENT H-2000

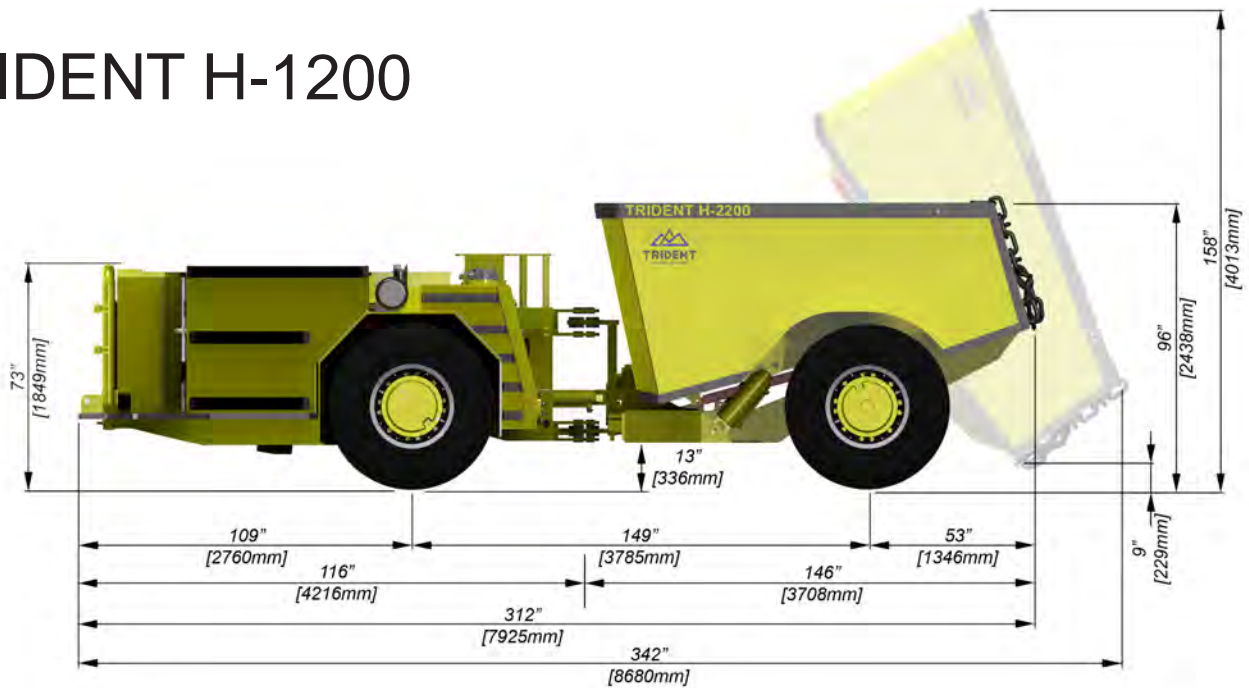


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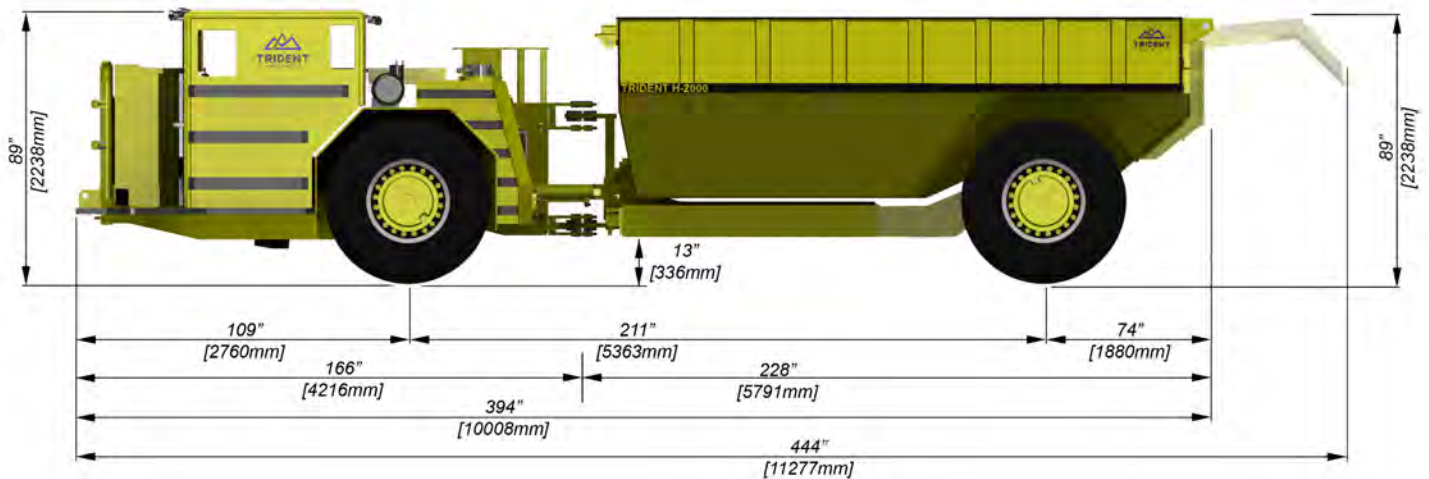
# HAUL TRUCKS

## TRIDENT H-1200



NOTE: CLOSED CAB AND CANOPY CAB HEIGHTS ARE SIMILAR.

## TRIDENT H-1600



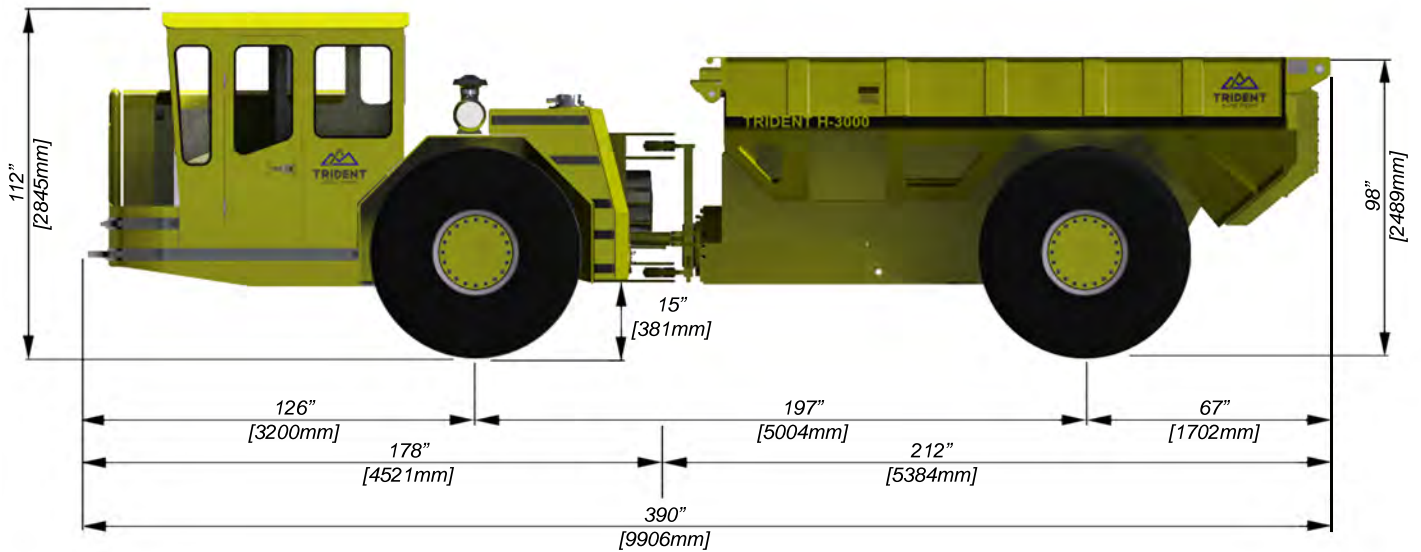
### EJECTOR BOX OPTION FOR ALL SIZES

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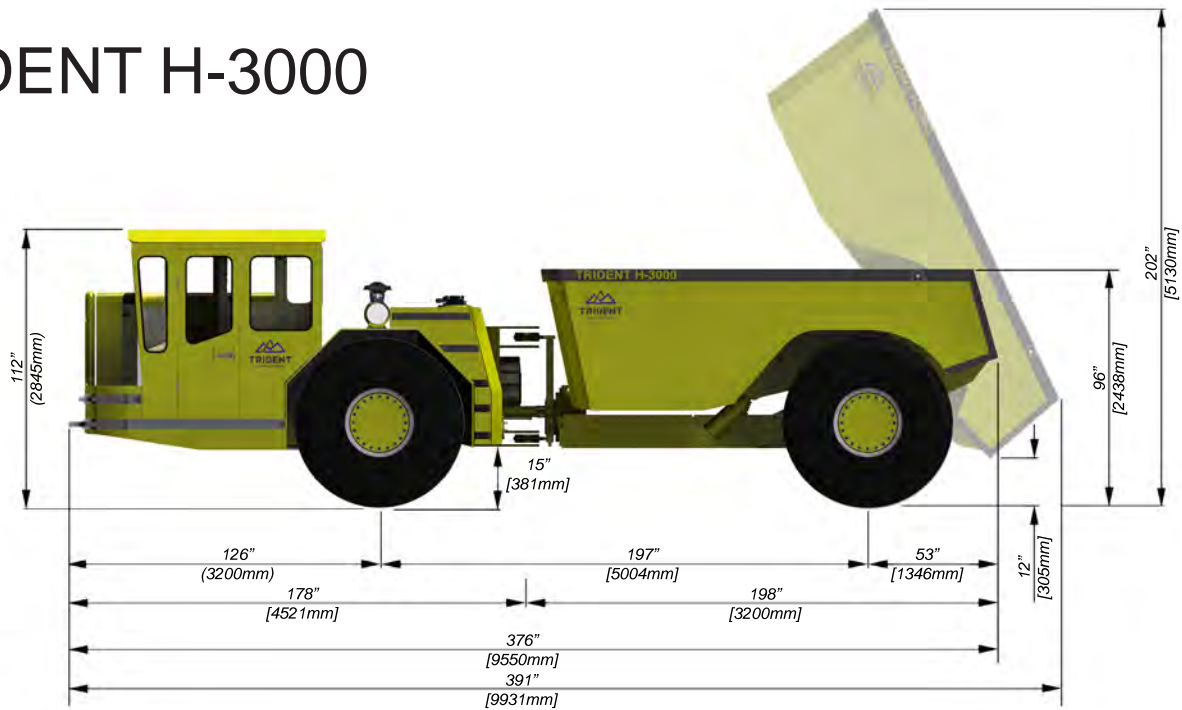
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# HAUL TRUCKS

## TRIDENT H-3000



## TRIDENT H-3000

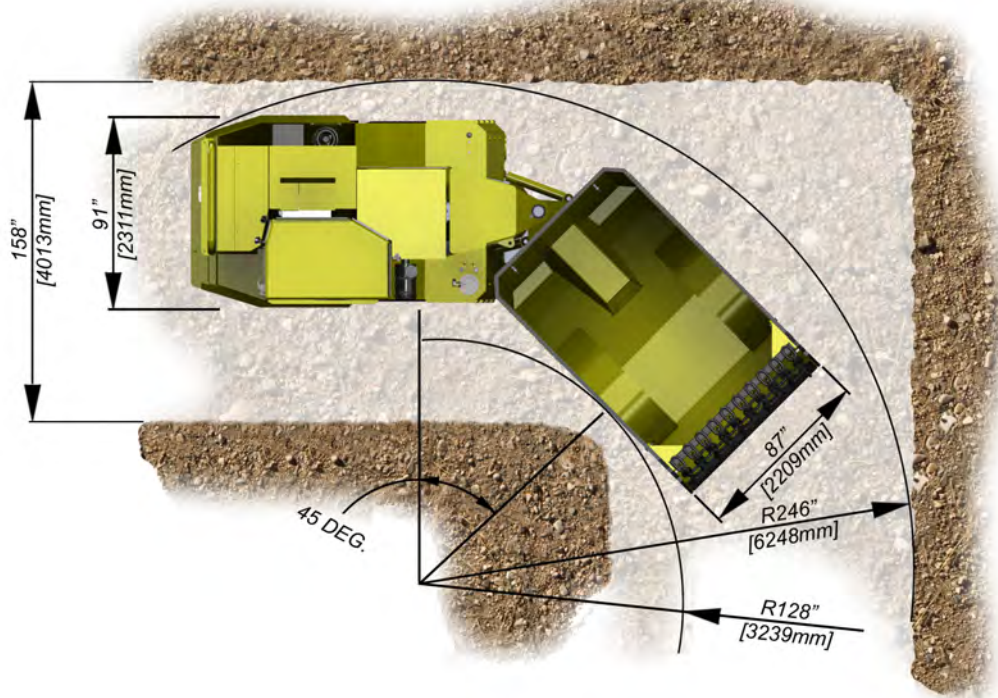


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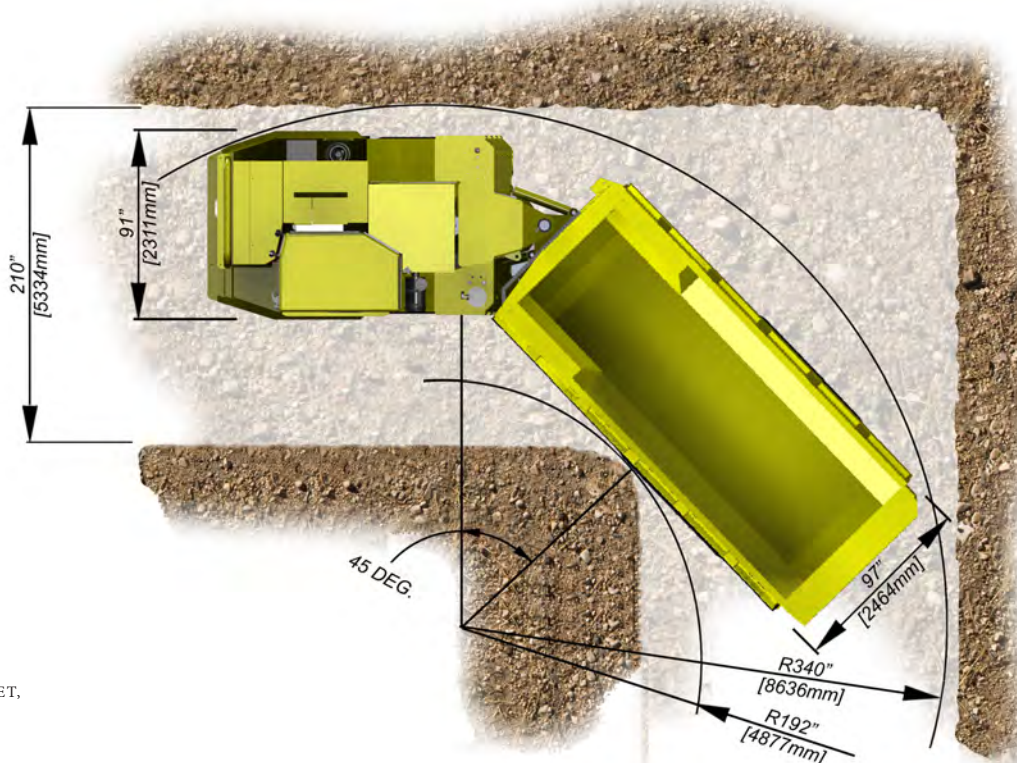
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# HAUL TRUCKS

## H-1200 to H-2200 *DUMP ONLY*



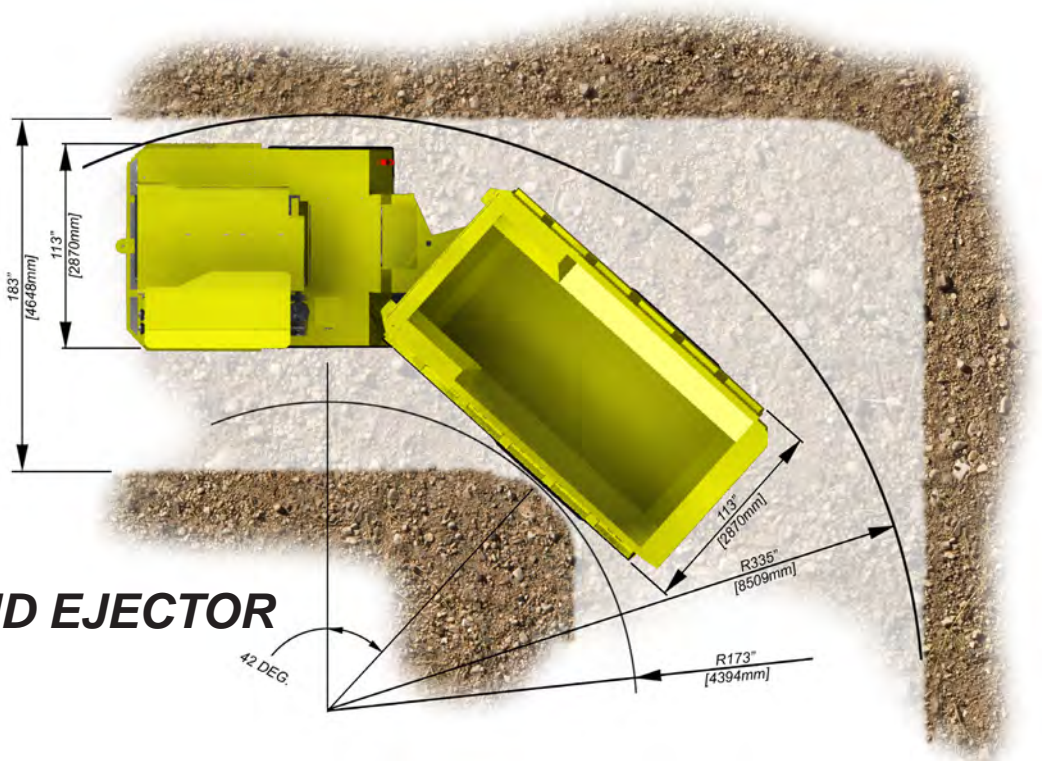
## H-2000 *EJECTOR BOX ONLY*



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# HAUL TRUCKS



## H-3000 *DUMP AND EJECTOR*

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# HAUL TRUCKS

## TECHNICAL SPECIFICATIONS

Haul Truck Model	H-1200	H-1600	H-1800	H-2000	H-2000 EJECTOR BOX	H-2200	H-3000 EJECTOR BOX	H-3000 DUMP BOX
OPERATION WEIGHT	41556 lbs (18849 kg)	44252 lbs (20072 kg)	45600 lbs (20684 kg)	47000 lbs (21319 kg)	48195 lbs (21861 kg)	51700 lbs (23450 kg)	68343 lbs (31000 kg)	59942 lbs (25828 kg)
TOTAL LOADED WEIGHT	65556 lbs (29736 kg)	76252 lbs (34587 kg)	81600 lbs (37013 kg)	87000 lbs (39463 kg)	98195 lbs (44541 kg)	95700 lbs (43408 kg)	128343 lbs (58215 kg)	116942 lbs (53044 kg)
AXLE	Dana 16D2149	Dana 16D2149	Dana 16D2149	Dana 16D2149	Dana 16D2149	Dana 16D2149	Dana 53R300	Dana 53R300
TORQUE CONVERTER	Clark-Dana C320	Clark-Dana C320	Clark-Dana C320	Clark-Dana C320	Clark-Dana C320	Clark-Dana C320	Clark-Dana R8602	Clark-Dana R8602
TRANSMISSION	Clark-Dana R32000	Clark-Dana R32000	Clark-Dana R32000	Clark-Dana R32000	Clark-Dana R32000	Clark-Dana R32000	Clark-Dana R6421	Clark-Dana R6421
ENGINE	Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSB 6.7	Cummins QSB 15	Cummins QSB 15
TIRE SIZE	14.00 R24	14.00 R24	17.50 R25	17.50 R25	17.50 R25	17.50 R25	26.50 R25	26.50 R25
BOX WIDTH	87" (2210 mm)	87" (2210 mm)	87" (2210 mm)	87" (2210 mm)	97" (2464 mm)	87" (2210mm)	116" (2946 mm)	114" (2896 mm)

- Cummins QSB 6.7, Tier III Engine: 220 HP, 2200 RPM, 6 Cyl, 409 Cubic Inch (6.7L) Direct Injection – Turbo Charged
- Detroit Diesel Series 60, Tier II Engine: 325 HP, 1350 RPM, 6 Cyl, 774 Cubic Inch (12.7L)
- Cummins QSB 15, Tier III Engine, 360-600HP, 2100 RPM, 6 Cyl, 915 Cubic Inch (15L), Turbo Charged
- Donaldson Type Dry Air Filtration
- Hydraulics : Open Center System with Gear pumps
- Service Brakes are Spring Applied Hydraulic Release Liquid Cooled Multidisc
- Service Brakes also act as Park Brake when Emergency Brake is engaged
- Pressure Accumulators, Piston Type on Braking and Steering Systems
- 24V System
- Driving and Working Lights, 4 pcs Front, 2 Rear Customizable

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# HAUL TRUCKS

## OPTIONAL EQUIPMENT



DASH LAYOUTS CUSTOMIZED TO  
YOUR NEEDS



OPEN CAB, CANOPY OR  
REGULAR OPERATORS  
COMPARTMENT AVAILABLE

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# HAUL TRUCKS

## OPTIONAL EQUIPMENT

- Torque Lock Up
- Telma Brake Retarder system
- Double walled exhaust
- Wrapped Exhaust
- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Radiator access points via slotted radiator shrouds
- Operator Compartment: Open Canopy, ROPS/FOPS
- Operator Compartment: Open Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab
- HTI Manifold and Turbo

# H-2000E HAUL TRUCK

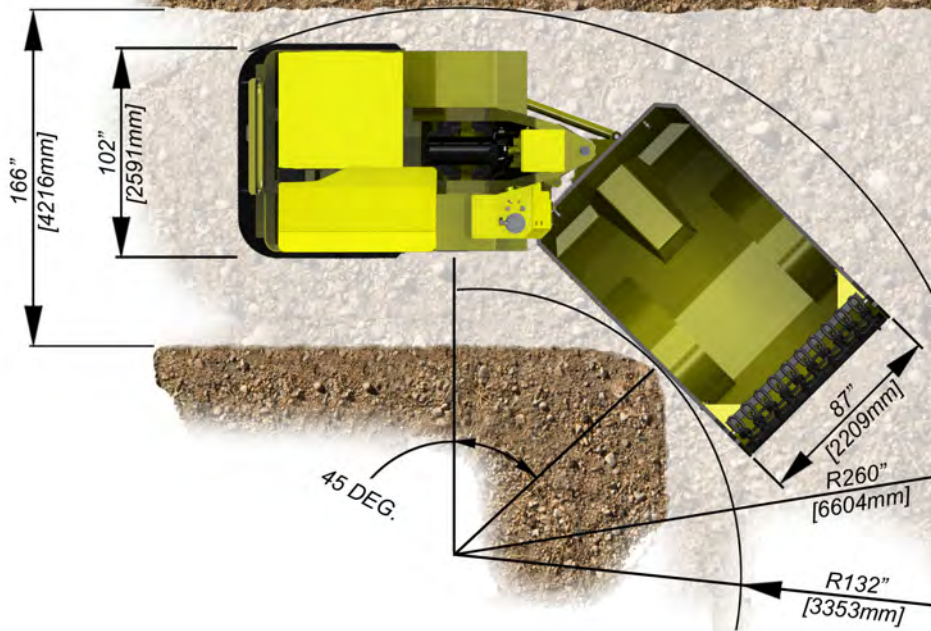
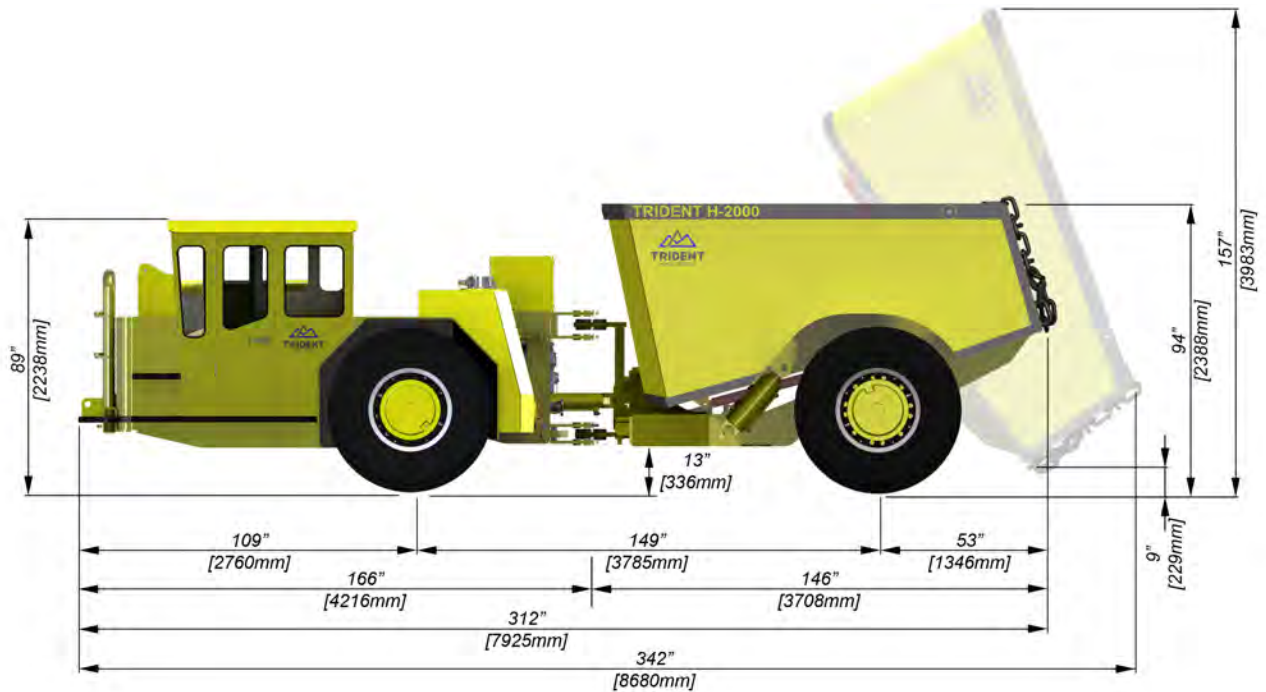
The H-2000E is an electric version of a H-2000 Haul Truck. There are many advantages of the H-2000E including: No emissions, built-in battery regeneration, low maintenance, and ideal for hauling down ramps or where proper ventilation is an issue.



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# H-2000E HAUL TRUCK



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# H-2000E HAUL TRUCK

## STANDARD FEATURES

- Rated Load Capacity: 40,000lbs. (18,144 kg.)
- Heavy Duty Powertrain.
- Permanent Magnet Motor - IP68 Compliant.
- CAN based Powertrain Control Module runs all on-board systems.
- Integrated Battery Management System.
- On-vehicle data logging.
- Remote Monitoring System for remote support of maintenance and repair activities.
- Remote Software updates and enhancements.
- Sealed Water Resistant Enclosures.
- Transmission: Dana R-32000 Series.
- Axles: Dana 16 D 2149 Planetary Drive Axle with Liquid Cooled Posi-Stop brakes.
- Center Articulated Hydraulic Steering.
- Central Lube Stations.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
- 24v Electrical System.
- Military Spec. Wiring System.
- Electric Transmission Controls.
- Hydraulic Joystick Operated Steering Controls.
- Fire Suppression System.
- Back Up Alarm.
- Emergency Braking System Accumulators – Spring Applied Hydraulic Released (SAHR) Braking System.
- 17.50 R25 Tires.

# H-2000E HAUL TRUCK

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	312 in.	(7925mm.)
Total Width:	102 in.	(2591mm.)
Total Height:	94 in.	(2388mm.)
Inner Turn Radius:	132 in.	(3353mm.)
Outer Turn Radius:	260 in.	(6604mm.)
Turn Angle:	45.0 Degrees	

### WEIGHTS

Operation Weight:	52,114lbs	(23,688kg.)
Total Loaded Weight:	92,114 lbs	(41,870kg.)

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	17.50R25
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### POWERTRAIN

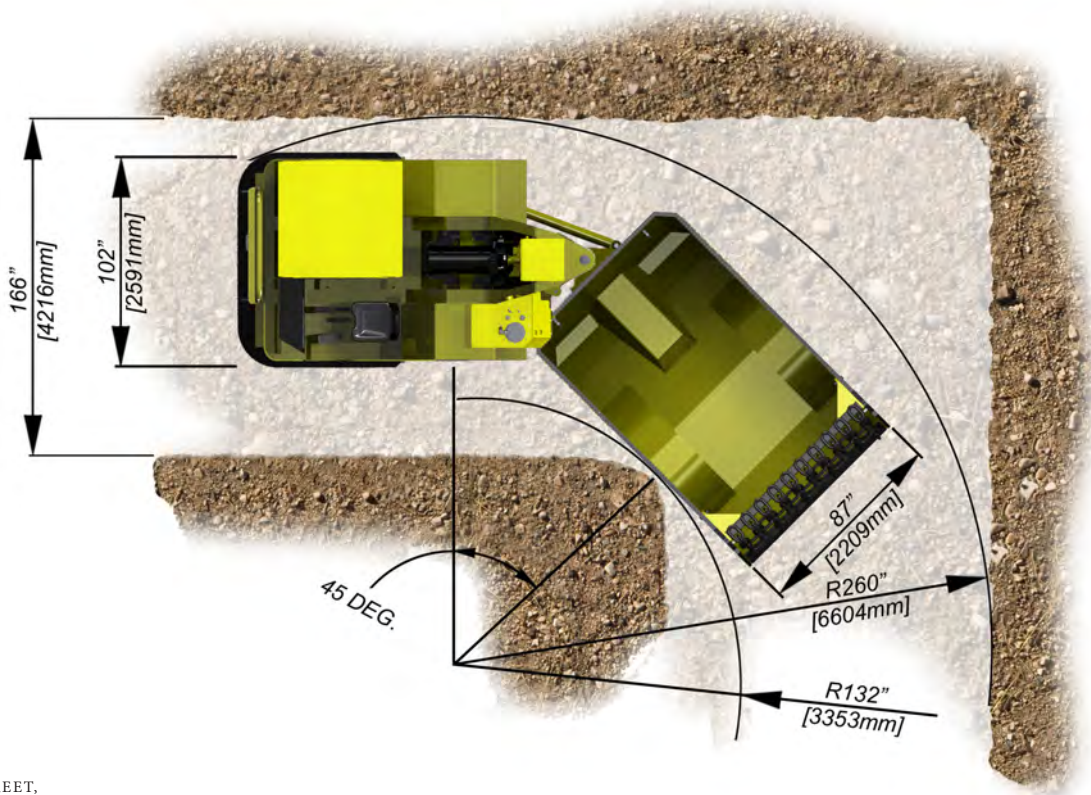
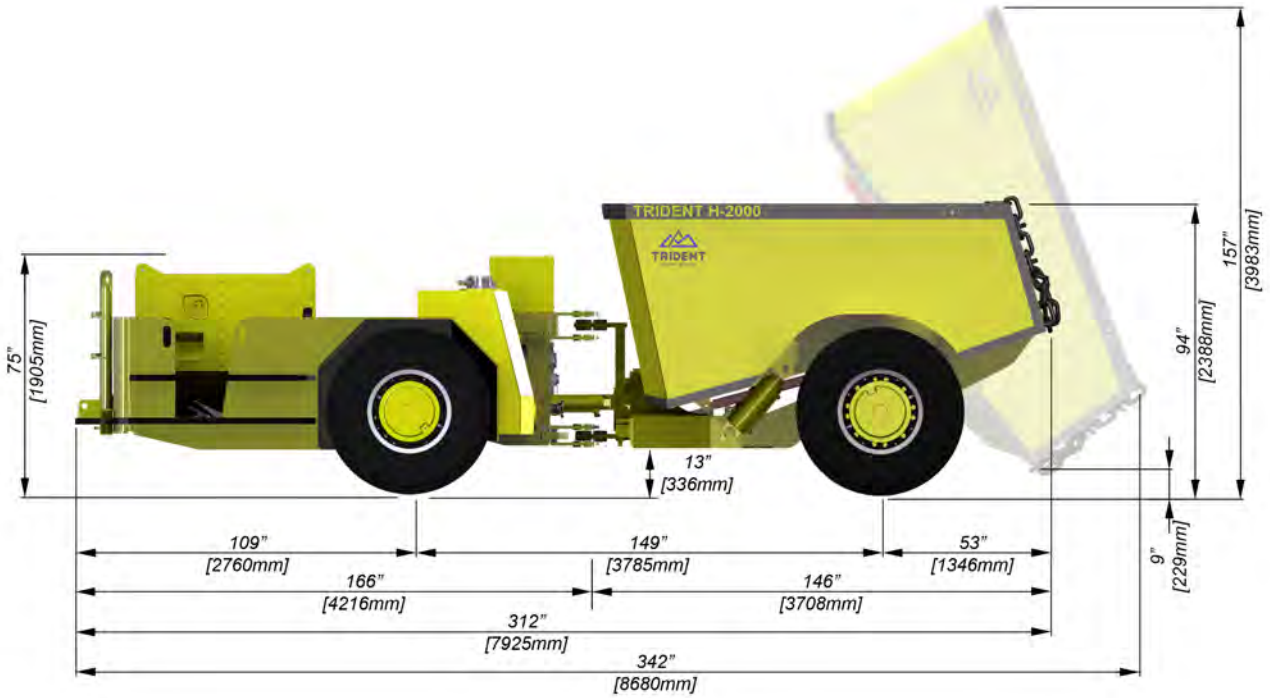
Motor:	
Electric Motor:	Permanent Magnet AC
Motor Torque:	1300Nm
Power:	Up to 225HP (168KW)
R.P.M:	2000
Transmission:	Dana R-32000 Series
Axles:	Dana 16D 2149 (Posi-Stop)

# H-2000E HAUL TRUCK

## OPTIONAL EQUIPMENT

- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Operator Compartment: Open Canopy, ROPS/FOPS
- Operator Compartment: Open Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab

# H-2000E HAUL TRUCK



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# H-2000E HAUL TRUCK

## STANDARD FEATURES

- Rated Load Capacity: 40,000lbs. (18,144 kg.)
- Heavy Duty Powertrain.
- Permanent Magnet Motor - IP68 Compliant.
- CAN based Powertrain Control Module runs all on-board systems.
- Integrated Battery Management System.
- On-vehicle data logging.
- Remote Monitoring System for remote support of maintenance and repair activities.
- Remote Software updates and enhancements.
- Sealed Water Resistant Enclosures.
- Transmission: Dana R-32000 Series.
- Axles: Dana 16 D 2149 Planetary Drive Axle with Liquid Cooled Posi-Stop brakes.
- Center Articulated Hydraulic Steering.
- Central Lube Stations.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
- 24v Electrical System.
- Military Spec. Wiring System.
- Electric Transmission Controls.
- Hydraulic Joystick Operated Steering Controls.
- Fire Suppression System.
- Back Up Alarm.
- Emergency Braking System Accumulators – Spring Applied Hydraulic Released (SAHR) Braking System.
- 17.50 R25 Tires.

# H-2000E HAUL TRUCK

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	312 in.	(7925mm.)
Total Width:	102 in.	(2591mm.)
Total Height:	94 in.	(2388mm.)
Inner Turn Radius:	132 in.	(3353mm.)
Outer Turn Radius:	260 in.	(6604mm.)
Turn Angle:	45.0 Degrees	

### WEIGHTS

Operation Weight:	51,364lbs	(23,347kg.)
Total Loaded Weight:	91,364 lbs	(41,529kg.)

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	17.50R25
------------	----------

### POWERTRAIN

Motor:	
Electric Motor:	Permanent Magnet AC
Motor Torque:	1300Nm
Power:	Up to 225HP (168KW)
R.P.M:	2000
Transmission:	Dana R-32000 Series
Axles:	Dana 16D 2149 (Posi-Stop)

# H-2000E HAUL TRUCK

## OPTIONAL EQUIPMENT

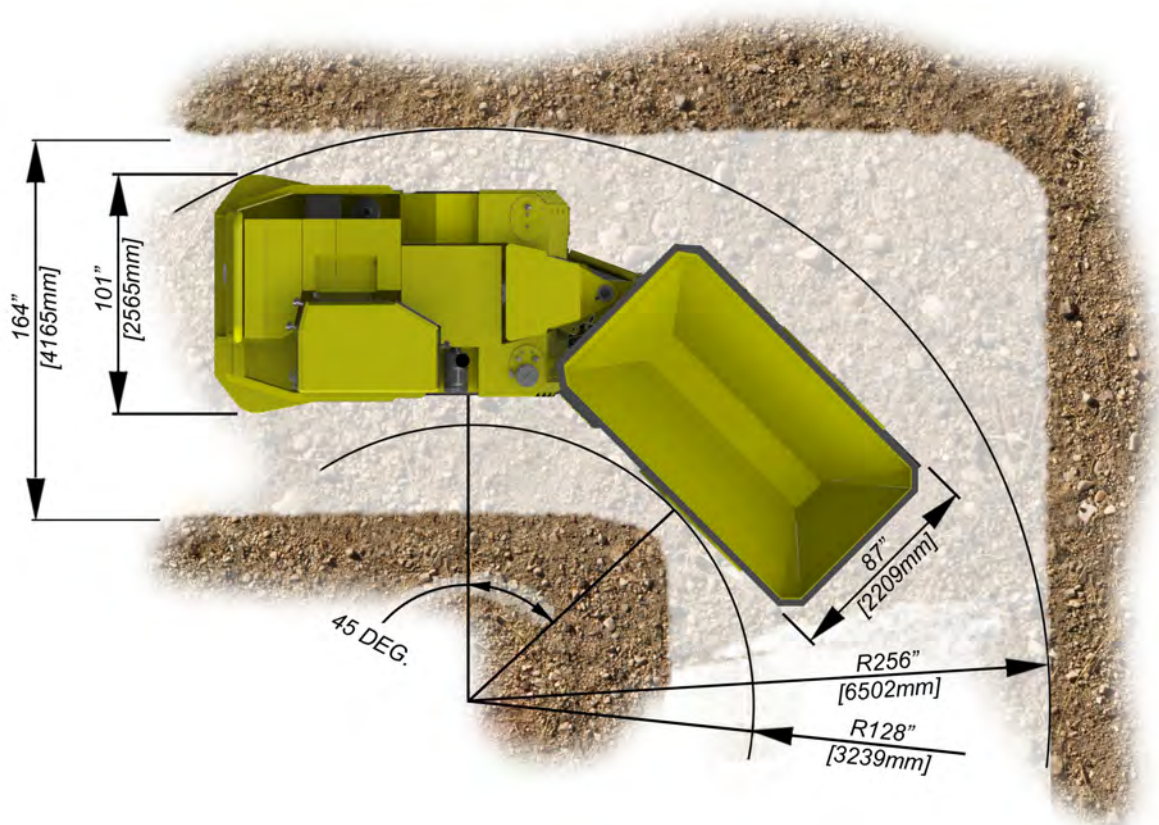
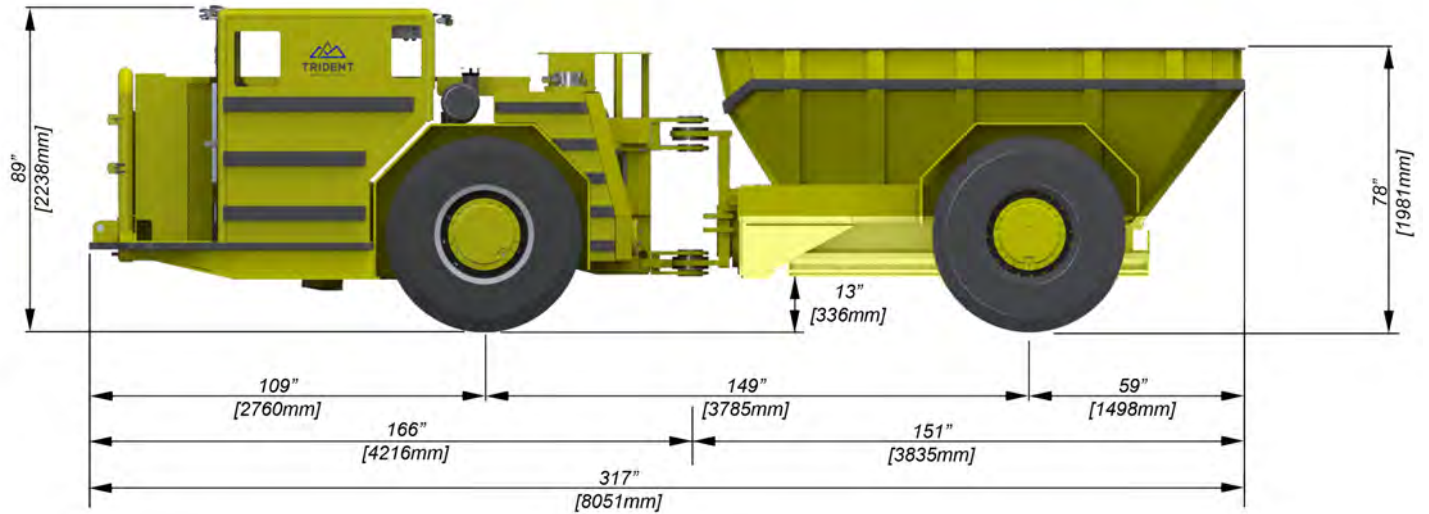
- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Operator Compartment: Open Canopy, ROPS/FOPS
- Operator Compartment: Open Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab

## BD-950 BELLY DUMPER

This heavy duty hauler utilizes a clam shell type dump gate in the belly of the box giving the unit the ability to lay loose material evenly in a wind row fashion. The Key advantages of the belly dumper would be the rapid distribution and spread of the material.



# BD-950 BELLY DUMPER



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# BD-950 BELLY DUMPER

## STANDARD FEATURES

- Max Load Capacity: 40,000 lb (20 Tons)
- 9.5 yards calculated with SAE Heap.
  
- Heavy Duty Powertrain.
- Engine: Cummins QSB6.7 Series Diesel Tier 3
- Torque Converter: Dana C-320 Series with Optional Lock-Up
- Transmission: Dana R-32000 Series
- Axles: Dana 16 D 2149 Planetary Drive Axle with Liquid Cooled Posi-Stop Brakes.
  
- Center Articulated Hydraulic Steering.
- Central Lube Stations.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
  
- Hydraulically controlled Dump Gate
- 24v Electrical System.
- Military Spec. Wiring System
- Electric Transmission Controls.
- Hydraulic Joystick Operated Steering Controls.
- Auto Fire Suppression System.
- Back Up Alarm.
- Emergency Braking System Accumulators.
- 14.00 R24 Tires

# BD-950 BELLY DUMPER

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	317 in.	(8051 mm)
Total Width:	101 in.	(2565 mm)
Total Height:	89 in.	(2260 mm)
Inner Turn Radius:	128 in.	(3251 mm)
Outer Turn Radius:	256 in.	(6502 mm)
Turn Angle:	45 Degrees	

### WEIGHTS

Operation Weight:	44,252lbs	(20,072kg)
Total Loaded Weight:	84,252lbs	(38,296kg)

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	14.00R24
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### ENGINE

Diesel Engine:	Cummins B6.7 Series Tier 3
Output:	220HP (164KW)
R.P.M:	2200
Cylinders:	6
Displacement:	409 Cubic Inch (6.7L)
Combustion Principle:	Direct Injection/Turbo Charged

### POWERTRAIN

Transmission:	Dana R-32000 Series
Torque Converter:	Dana C-320 Series (Lock-Up Optional)
Front Axle:	Dana 16D 2149 (Posi-Stop)
Rear Wheel Brakes:	Spring Applied Hydraulic Released

### BOX CAPACITY

# BD-950 BELLY DUMPER

## OPTIONAL EQUIPMENT

- Torque Lock Up
- Telma Brake Retarder system
- Double walled exhaust
- Wrapped Exhaust
- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Radiator access points via slotted radiator shrouds
- Operator Compartment: Open Canopy, ROPS/FOPS
- Operator Compartment: Open Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Tires: 17.50 R25
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab
- HTI Manifold and Turbo
- Optional Hydrostatic Rear Wheel Drive System



## A-2500-2 ANFO LOADER

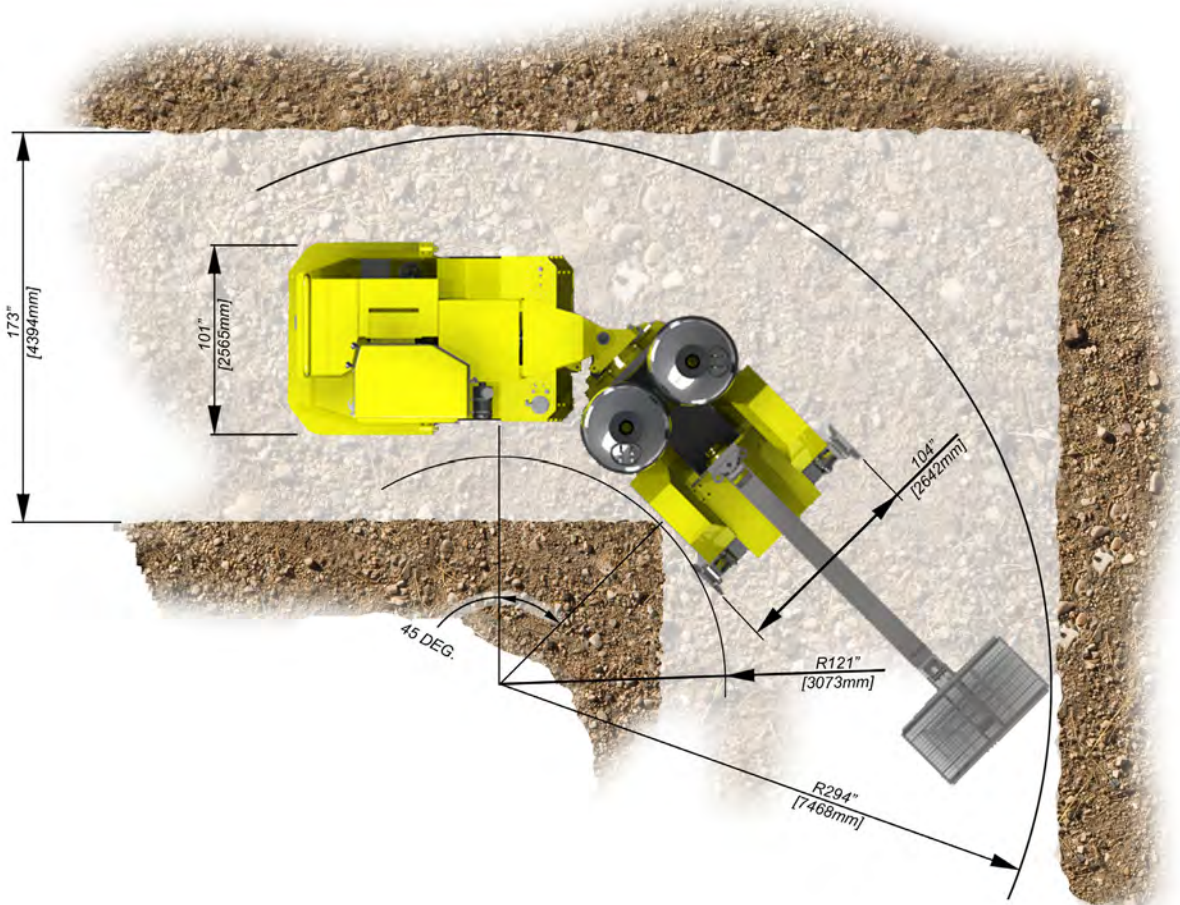
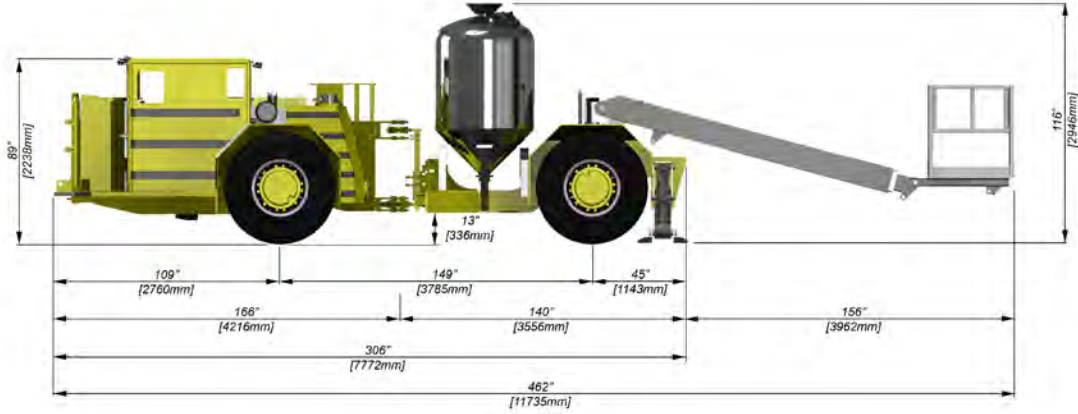
The A-2500-2 has two 2,500 lb tanks with a man basket attached to the rear of the machine. Tanks can be changed from a variety of different sizes, ranging from 1000-3000 lbs. Like all of the Trident Mining Systems vehicles, it features an insulated air-conditioned ROPS operator cab (open cab also available), a 24V electrical system, electrical transmission controls, joystick operated steering and man basket controls, an automatic fire suppression system, back up alarm, and emergency steering and braking system accumulators.



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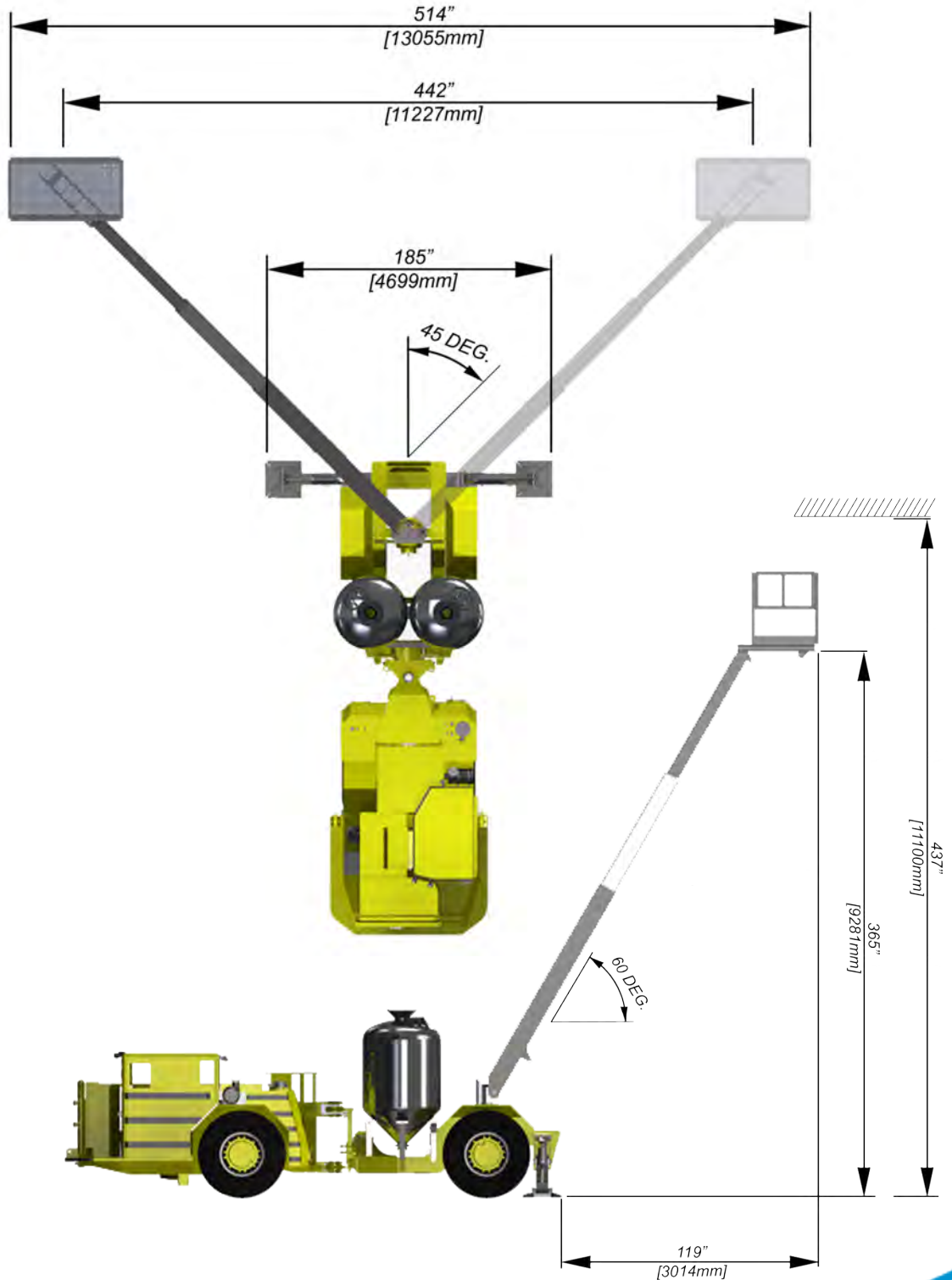
# A-2500-2 ANFO LOADER



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# A-2500-2 ANFO LOADER



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# A-2500-2 ANFO LOADER

## STANDARD FEATURES

- Rated Load Capacity: 5,000lbs Anfo. (2,272 kg)
- 400 kg Man Basket Capacity
  
- Heavy Duty Powertrain.
- Engine: Cummins QSB6.7 Series Diesel Tier 3
- Torque Converter: Dana C-320 Series with Optional Lock-Up
- Transmission: Dana R-32000 Series
- Axles: Dana 16 D 2149 Planetary Drive Axle with Liquid Cooled Posi-Stop Brakes.
  
- Center Articulated Hydraulic Steering.
- Central Lube Stations.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
  
- 24v Electrical System.
- Military Spec. Wiring System
- Electric Transmission Controls.
- Hydraulic Joystick Operated Steering Controls.
- Auto Fire Suppression System.
- Back Up Alarm.
- Emergency Braking System Accumulators.
- 14.00 R24 Tires

# A-2500-2 ANFO LOADER

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	462 in.	(11735 mm)
Total Width:	104 in.	(2642 mm)
Total Height:	116 in.	(2946 mm)
Inner Turn Radius:	121 in.	(3073 mm)
Outer Turn Radius:	294 in.	(7468 mm)
Turn Angle:	45 Degrees	

### MAN LIFT

Total Height to bottom of basket:	365 in.	(9271 mm)
Face Coverage:	36 ft. 5 in. x 42 ft. 10 in. (11100 mm x 13055 mm)	
Boom Angle Vertical:	60 Degrees	
Maximum Slewing Angle:	90 Degrees	

### WEIGHTS

Operation Weight:	47,070lbs	(21395kg)
Total Loaded Weight:	52,070lbs	(23668kg)

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	14.00R24
------------	----------

### ENGINE

Diesel Engine:	Cummins B6.7 Series Tier 3
Output:	220HP (164KW)
R.P.M:	2200
Cylinders:	6
Displacement:	409 Cubic Inch (6.7L)
Combustion Principle:	Direct Injection/Turbo Charged

### POWERTRAIN

Transmission:	Dana R-32000 Series
Torque Converter:	Dana C-320 Series (Lock-Up Optional)
Axles:	Dana 16D 2149 (Posi-Stop)

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# A-2500-2 ANFO LOADER

## OPTIONAL EQUIPMENT

- Torque Lock Up
- Telma Brake Retarder system
- Double walled exhaust
- Wrapped Exhaust
- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Radiator access points via slotted radiator shrouds
- Operator Compartment: Open Canopy, ROPS/FOPS
- Operator Compartment: Open Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS/FOPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab
- HTI Manifold and Turbo
- FOPS Roof Tilt Basket (for 11.8m Boom only)
- FOPS Roof Telescopic
- Prepared For Air/Water in Basket
- Prepared For Hydraulic Supply in Basket
- Swingable Basket
- 9.3m Boom, Boom Illustrated is 11.8m
- Rubber loading hose per 200'
- Auxilary air/hydraulic Power Pack
- Tanks also available in 1000, 1500, 2000, and 3000 lbs \_\_\_\_\_

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# F-1000 FUEL HAULER

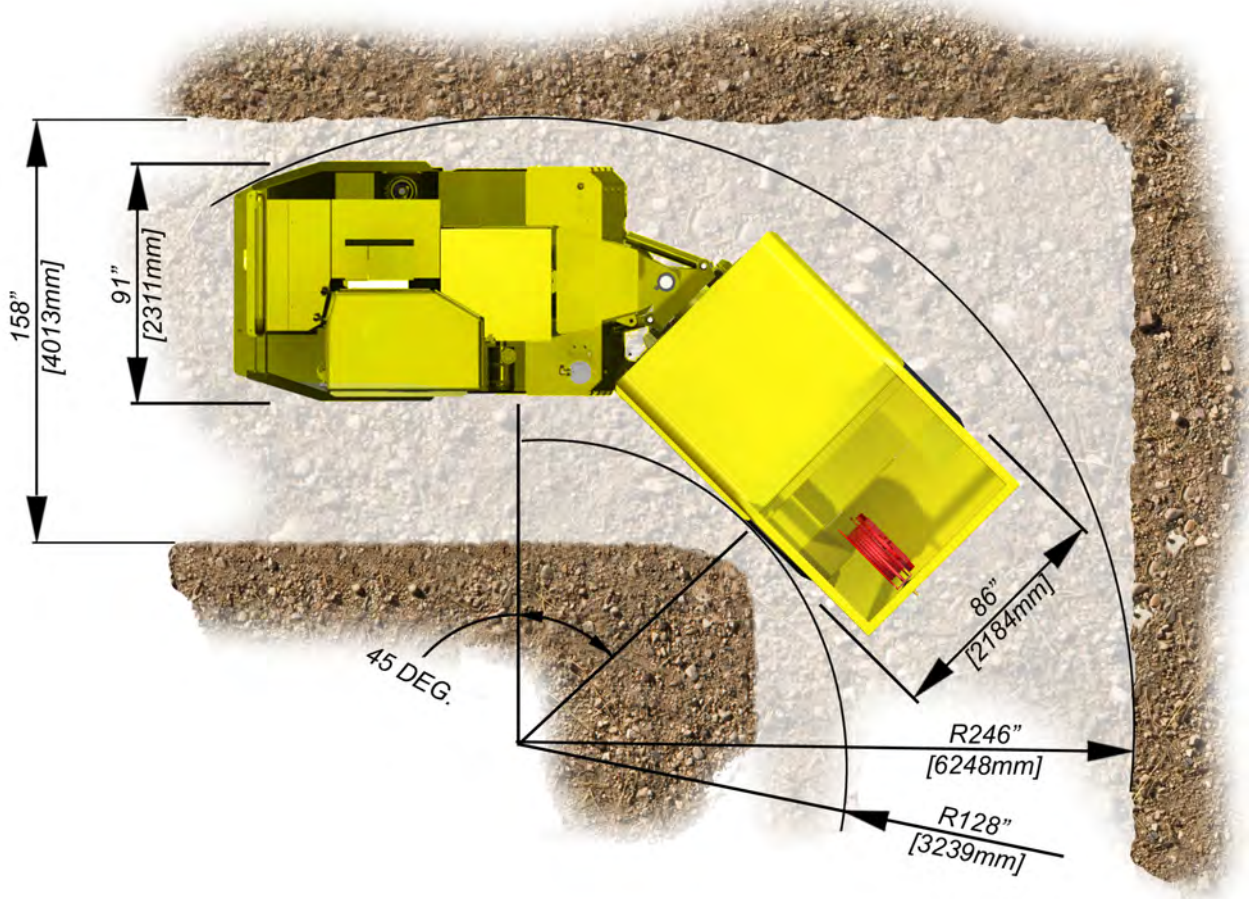
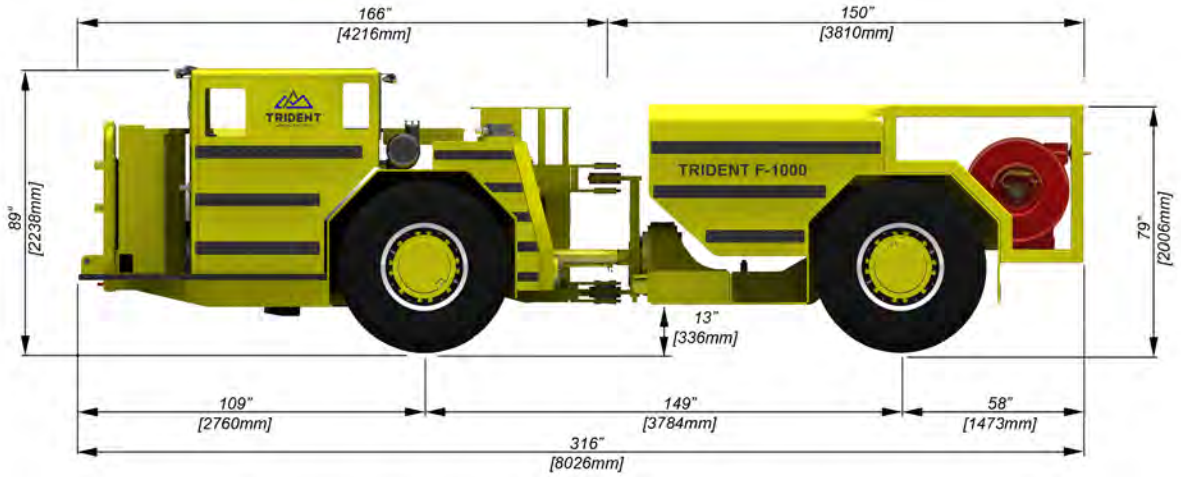
The F-1000 Fuel Hauler is a heavy-duty mine fueling vehicle with a capacity of 1000 gallons. Like all of the Trident Mining Systems vehicles, it features an insulated air-conditioned ROPS operator cab (open cab also available), a 24V electrical system, electrical transmission controls, joystick operated steering and fueling controls, an automatic fire suppression system, back up alarm, and emergency steering and braking system accumulators. This state of the art underground vehicle is built using military spec wiring, with a hydraulic driven fuel pump and a completely customizable fuel dispensing system to facilitate requirements of the intended specific mine infrastructure.



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# F-1000 FUEL HAULER



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# F-1000 FUEL HAULER

## STANDARD FEATURES

- Rated Load: 10,058 lbs. (4562 kg.)
- Tank Capacity: 1000 Gallons. (3785 Litres.)
  
- Heavy Duty Powertrain.
- Engine: Cummins QSB6.7 Series Diesel Tier 3
- Torque Converter: Dana C-320 Series with Optional Lock-Up
- Transmission: Dana R-32000 Series
- Axles: Dana 16 D 2149 Planetary Drive Axle with Liquid Cooled Posi-Stop Brakes.
  
- Center Articulated Hydraulic Steering.
- Central Lube Stations.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
- Emergency Steering and Braking System Accumulators
  
- Enclosed Air Conditioned and/or Heated R.O.P.S Operator Cab.
- 24v Electrical System
- Military Spec. Wiring System
- Electric Transmission Controls.
- Hydraulic Pilot Operated Joystick Steering Controls.
- Fire Suppression System.
- Back Up Alarm.
- Emergency Steering & Braking System Accumulators.
- 14.00 R24 Tires

# F-1000 FUEL HAULER

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	316 in.	(8026mm.)
Total Width:	91 in.	(2311mm.)
Total Height:	89 in.	(2238mm.)
Inner Turn Radius:	128 in.	(3239mm.)
Outer Turn Radius:	246 in.	(6248mm.)
Turn Angle:	45.0 Degrees	

### WEIGHTS

Operation Weight:	40,458 lbs	(18,351 kg.)
Total Loaded Weight:	47,608 lbs	(21,915 kg.)

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	14.00R24
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### TANK

Capacity:	1000 Gallons (3785 Litres)
Tank Height:	Options Available 79 in. (2006mm.)

### ENGINE

Diesel Engine:	Cummins B6.7 Series Tier 3
Output:	220HP (164KW)
R.P.M:	2200
Cylinders:	6
Displacement:	409 Cubic Inch (6.7L)
Combustion Principle:	Direct Injection/Turbo Charged

### POWERTRAIN

Transmission:	Dana R-32000 Series
Torque Converter:	Dana C-320 Series (Lock-Up Optional)
Axles:	Dana 16D 2149 (Posi-Stop)

# F-1000 FUEL HAULER

## OPTIONAL EQUIPMENT

- Torque Lock Up
- Telma Brake Retarder system
- Double walled exhaust
- Wrapped Exhaust
- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Easy access engine skid pan
- Radiator access points via slotted radiator shrouds
- Transmission: Electric modulated powershift
- Transmission: Hydraulic powershift
- Operator Compartment: Open Canopy, ROPS
- Operator Compartment: Open Cab, ROPS
- Operator Compartment: Closed Cab, ROPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab
- HTI Manifold and Turbo

# W-2000 WATER TANKER

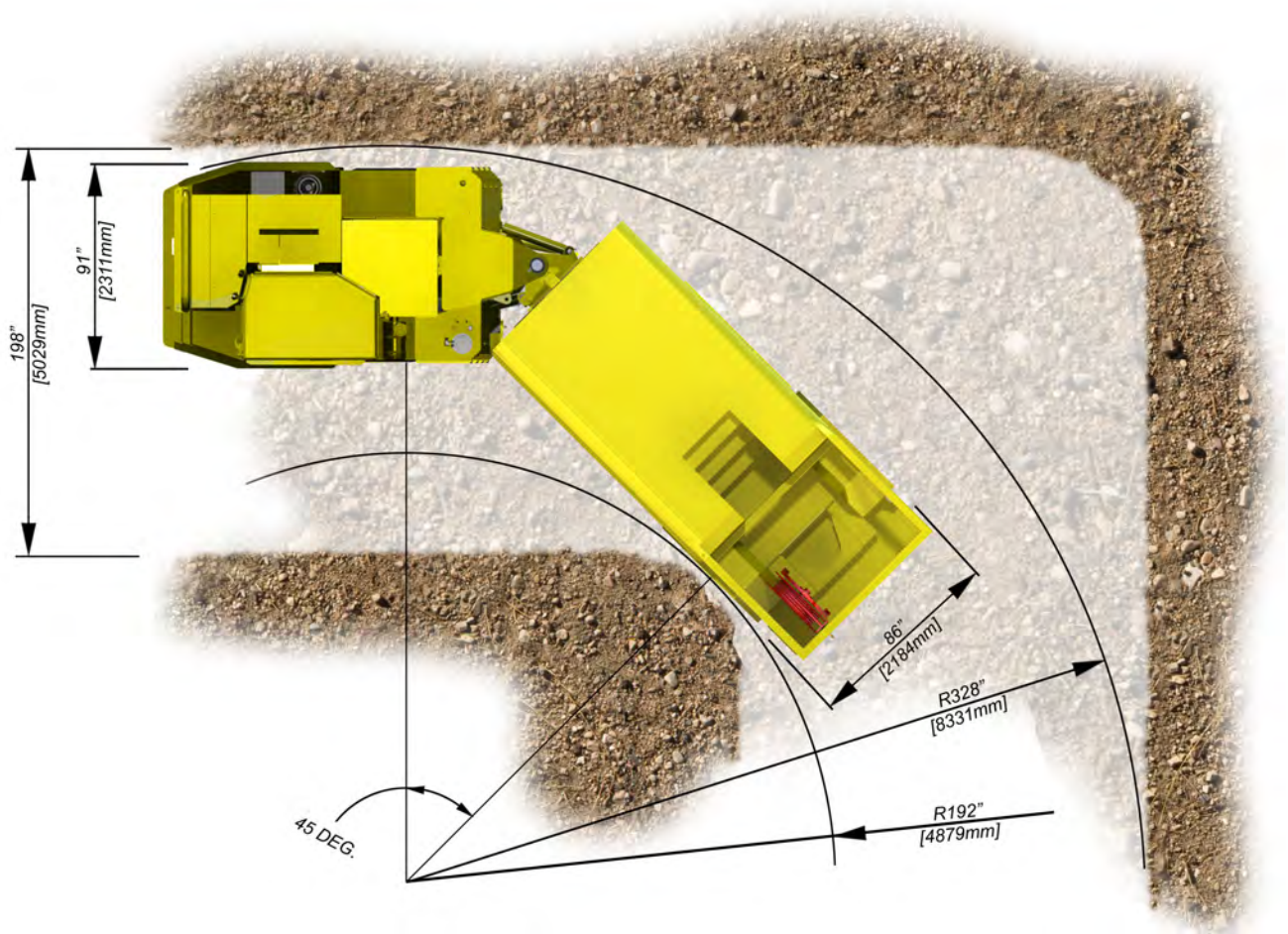
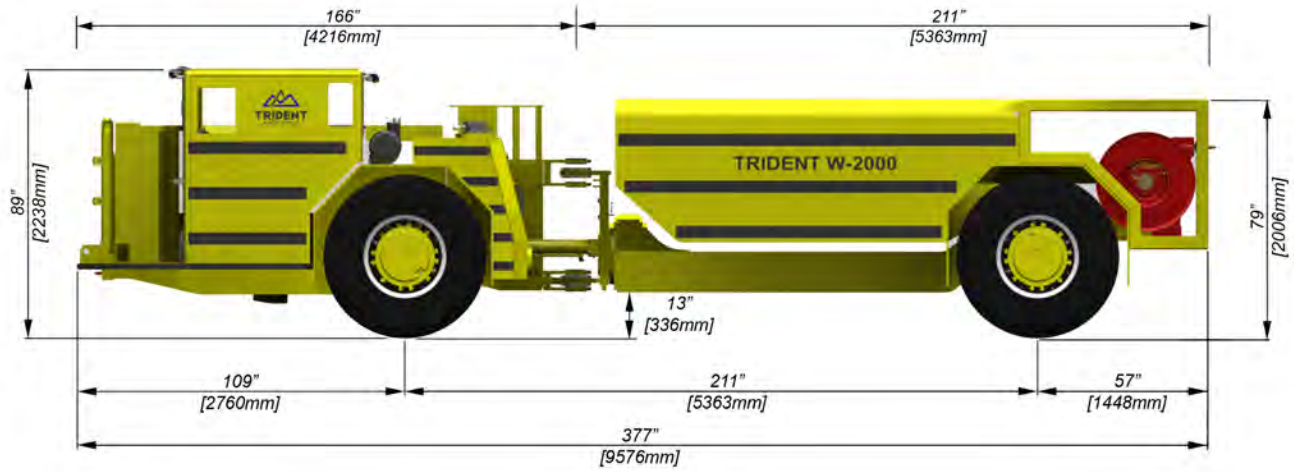
The W-2000 Water Tanker is a heavy-duty mine roadway watering vehicle with a capacity of 2000 gallons. Like all of the Trident Mining Systems vehicles, it features an insulated air-conditioned ROPS operator cab (open cab also available), a 24V electrical system, electrical transmission controls, joystick operated steering and watering controls, an automatic fire suppression system, back up alarm, and emergency steering and braking system accumulators. This state of the art underground vehicle is built using military spec wiring, with a hydraulic driven water pump providing up to 207GPM at 130PSI delivered through front and rear chassis mounted sprayer manifolds.



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# W-2000 WATER TRUCK



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# W-2000 WATER TRUCK

## STANDARD FEATURES

- Rated Load: 20,198 lbs. (9162 kg.)
- Tank Capacity: 2000 Gallons. (7571 Litres.)
  
- Heavy Duty Powertrain.
- Engine: Cummins QSB6.7 Series Diesel Tier 3
- Torque Converter: Dana C-320 Series with Optional Lock-Up
- Transmission: Dana R-32000 Series
- Axles: Dana 16 D 2149 Planetary Drive Axle with Liquid Cooled Posi-Stop Brakes.
  
- Center Articulated Hydraulic Steering.
- Central Lube Stations.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
- Emergency Steering and Braking System Accumulators
  
- Enclosed Air Conditioned and/or Heated R.O.P.S Operator Cab.
- 24v Electrical System.
- Military Spec. Wiring System
- Electric Transmission Controls.
- Hydraulic Pilot Operated Joystick Steering Controls.
- Fire Suppression System.
- Back Up Alarm.
- Emergency Steering & Braking System Accumulators.
- 17.50 R25 Tires
  
- Front and Rear Chassis Mounted Sprayer Manifolds

# W-2000 WATER TRUCK

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	377 in.	(9576mm.)
Total Width:	91 in.	(2311mm.)
Total Height:	89 in.	(2238mm.)
Inner Turn Radius:	192 in.	(4879mm.)
Outer Turn Radius:	328 in.	(8331mm.)
Turn Angle:	45.0 Degrees	

### WEIGHTS

Operation Weight:	42,800lbs	(19,413kg.)
Total Loaded Weight:	62,998lbs	(28,575kg.)

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	17.00R25
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### ENGINE

Diesel Engine:	Cummins B6.7 Series Tier 3
Output:	220HP (164KW)
R.P.M:	2200
Cylinders:	6
Displacement:	409 Cubic Inch (6.7L)
Combustion Principle:	Direct Injection/Turbo Charged

### POWERTRAIN

Transmission:	Dana R-32000 Series
Torque Converter:	Dana C-320 Series (Lock-Up Optional)
Axles:	Dana 16D 2149 (Posi-Stop)

### WATER PUMP

Hydraulically Driven	207 GPM at 130 PSI
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# W-2000 WATER TRUCK

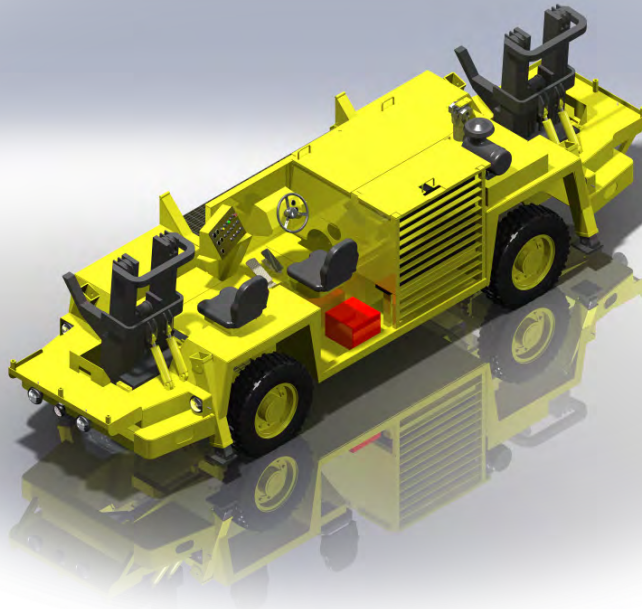
## OPTIONAL EQUIPMENT

- Torque Lock Up
- Telma Brake Retarder system
- Double walled exhaust
- Wrapped Exhaust
- Auto Grease System
- Windshield washer/wiper system
- Heavy duty tow points
- Heavy duty rub rail system
- Easy access engine skid pan
- Radiator access points via slotted radiator shrouds
- Transmission: Electric modulated powershift
- Transmission: Hydraulic powershift
- Operator Compartment: Open Canopy, ROPS
- Operator Compartment: Open Cab, ROPS
- Operator Compartment: Closed Cab, ROPS
- Operator Compartment: Closed Cab, ROPS, Arctic Specs.
- Operator Compartment: No Cab
- Fire suppression: Checkfire system
- Tires: Mine Smooth L-5 Goodyear
- Tires: Mine Lug
- Spare Rim and Tire
- Air Conditioned Cab
- Heated Cab
- HTI Manifold and Turbo



# PH-4000 PIPE HANDLER

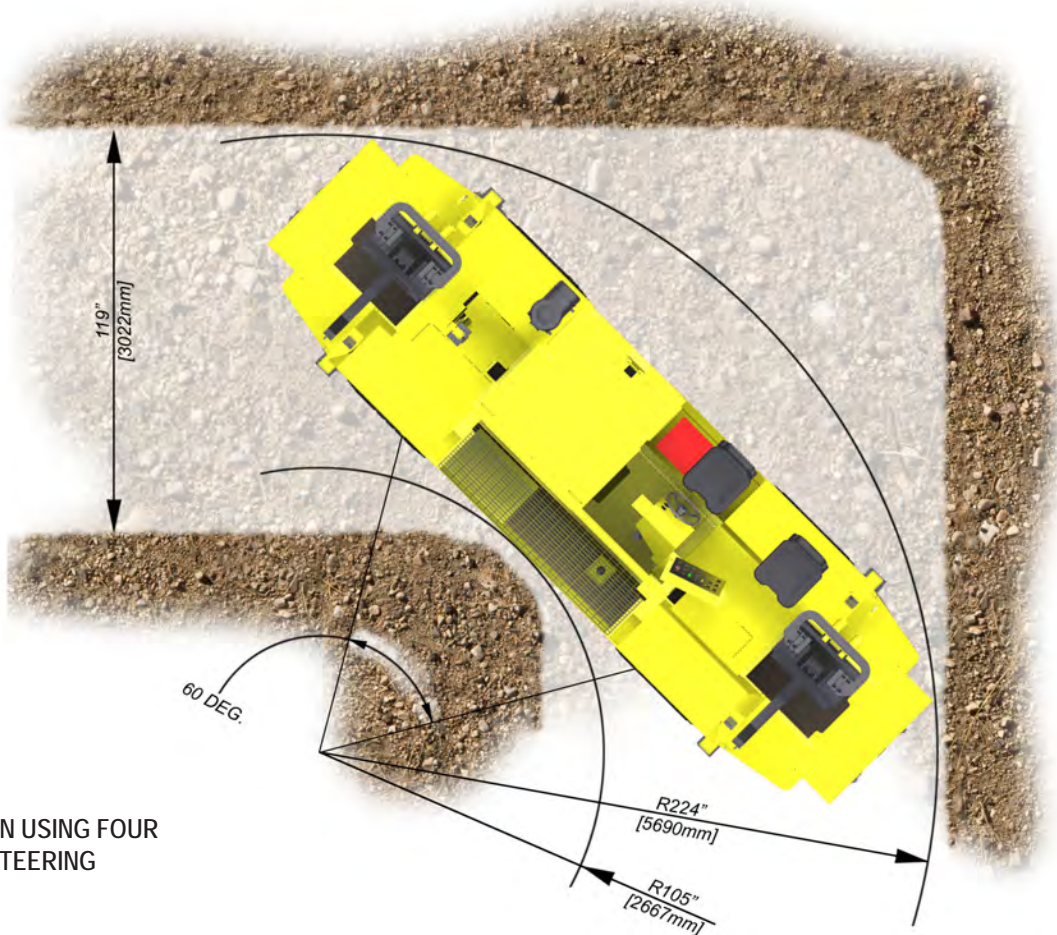
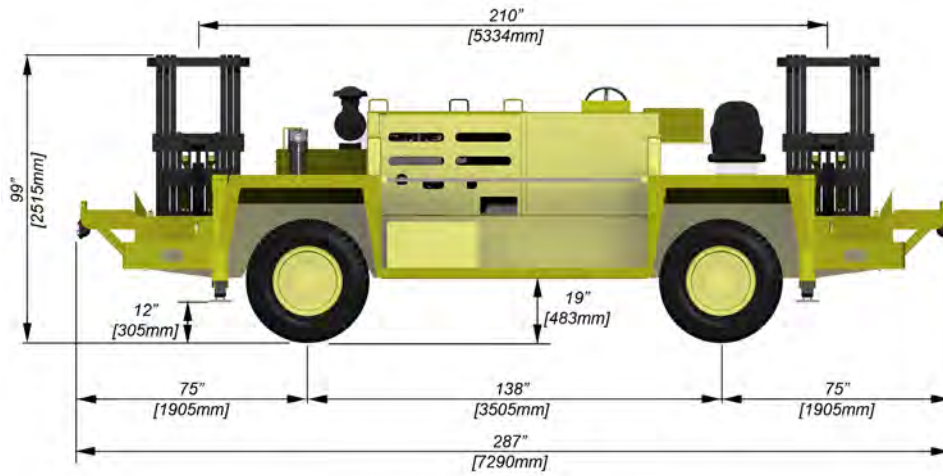
The Trident PH-4000 pipe handler is a safe and effective solution to the standard pipe installation and removal methods used in the mining industry. The two tilting three stage masts ensure pipe positioning is done at ease while maintaining safe support of the pipe to ensure the safest working environment. Not only does this unit drastically improve efficiency, it can have pipe as well as be used for fan hanging applications.



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# PH-4000 PIPE HANDLER

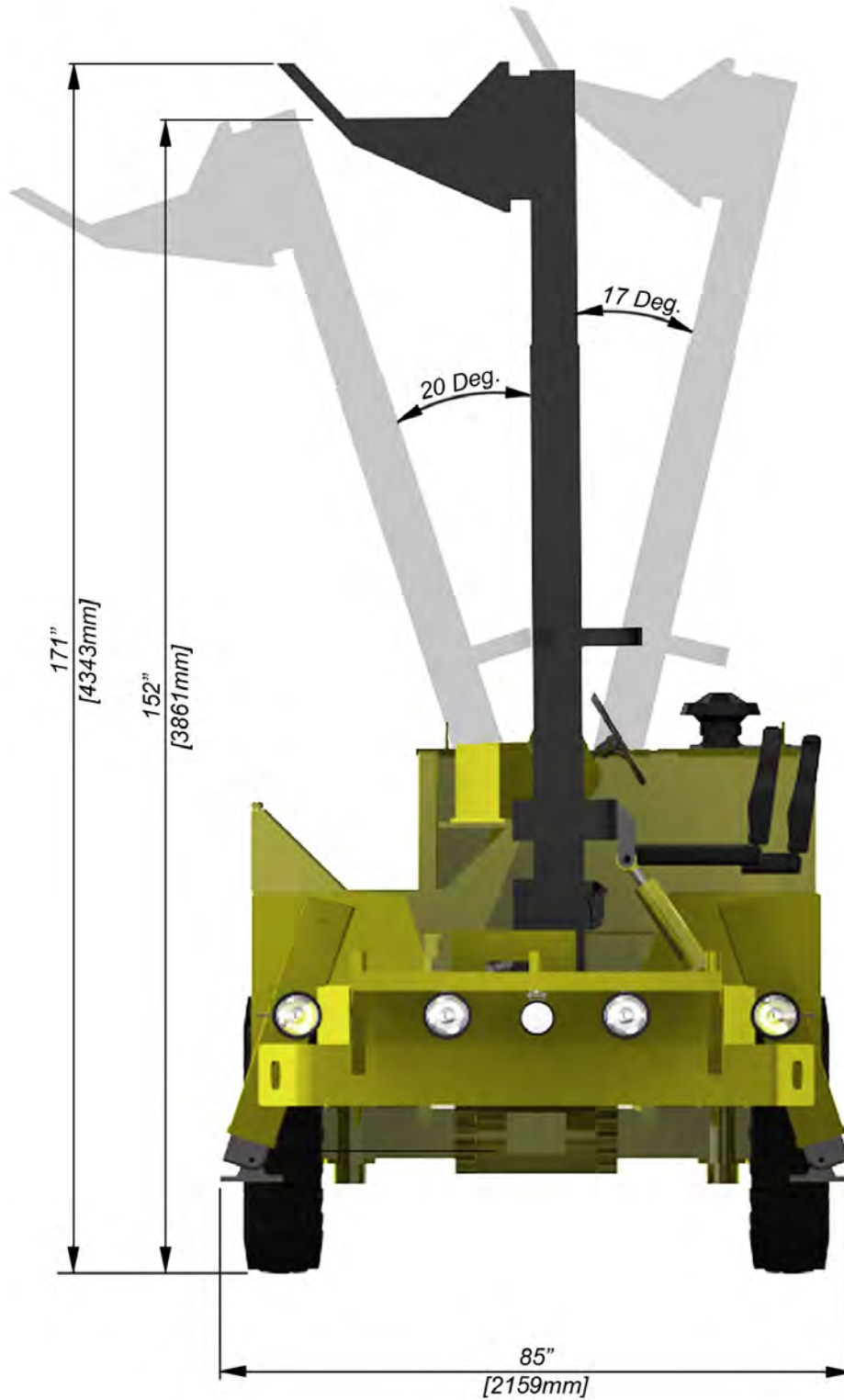


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# PH-4000 PIPE HANDLER



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# PH-4000 PIPE HANDLER

## STANDARD FEATURES

- Heavy Duty Powertrain.
- Engine: Cummins QSB4.5 Series Diesel Tier 3
- Transmission: Clark Dana 20000 Series
- Axles: Clark Dana 276 Series Steering Axle
  
- Two Wheel Steering
- Four Wheel Steering
- "Crab" Steering
- Central Lube Stations and/or Manual Lube Injection Points.
- Central Hydraulic Pressure Testing Points.
- SAE Type Hose Fittings.
  
- 24v Electrical System.
- Military Spec. Wiring System
- Electric Transmission Controls.
- Hydraulic or Electronic Operated Steering Controls.
- Manually Activated Fire Suppression System.
- Back Up Alarm.
- Emergency Steering & Braking System Accumulators.
- Hauler-LT 10.00-20 N.H.S. Tires
- Two Masts (3 Stage)
- Safety Lanyard Tie off Points

# PH-4000 PIPE HANDLER

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	287 in.	(7290mm.)
Total Width:	85.0 in.	(2159mm.)
Total Height:	99 in.	(2515mm.)
Inner Turn Radius:	105 in.	(2667mm.)
Outer Turn Radius:	224 in.	(5690mm.)
Turn Angle:	60.0 Degrees (Based on 4 Wheel Steering)	

### FRAMES

Rear and Front Frames:	Welded Steel Box Construction
Material:	G40.21 300W Plate G40.21 350W H.S.S

### TIRES

Tire Size:	10.00-20 N.H.S.
------------	-----------------

### ENGINE
















Diesel Engine:	Cummins QSB4.5 Series Tier 3
Output:	152HP (113KW)
R.P.M:	2200
Cylinders:	4
Displacement:	275 Cubic Inch (4.5L)
Combustion Principle:	Direct Injection/Turbo Charged
Torque:	405lb-ft (549N-M)

### POWERTRAIN

Transmission:	Clark Dana 20000 Series
Axles:	Clark Dana 276 Steering Axles

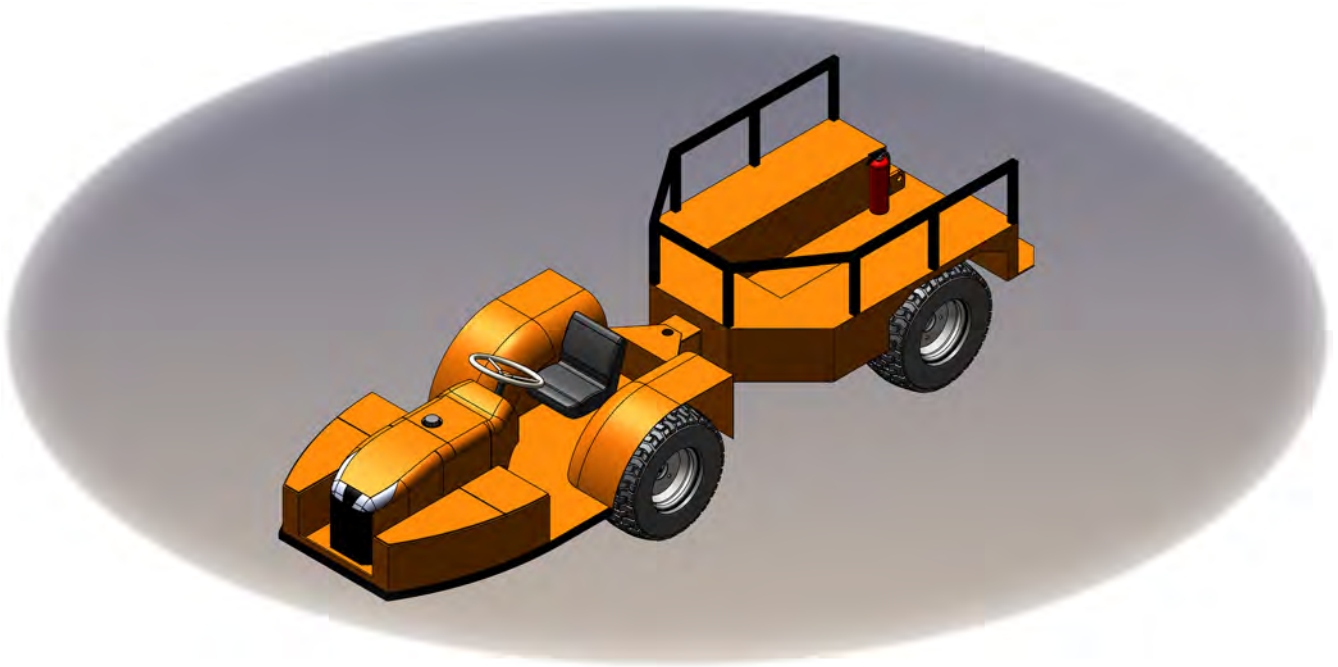
# PH-4000 PIPE HANDLER

## OPTIONAL EQUIPMENT

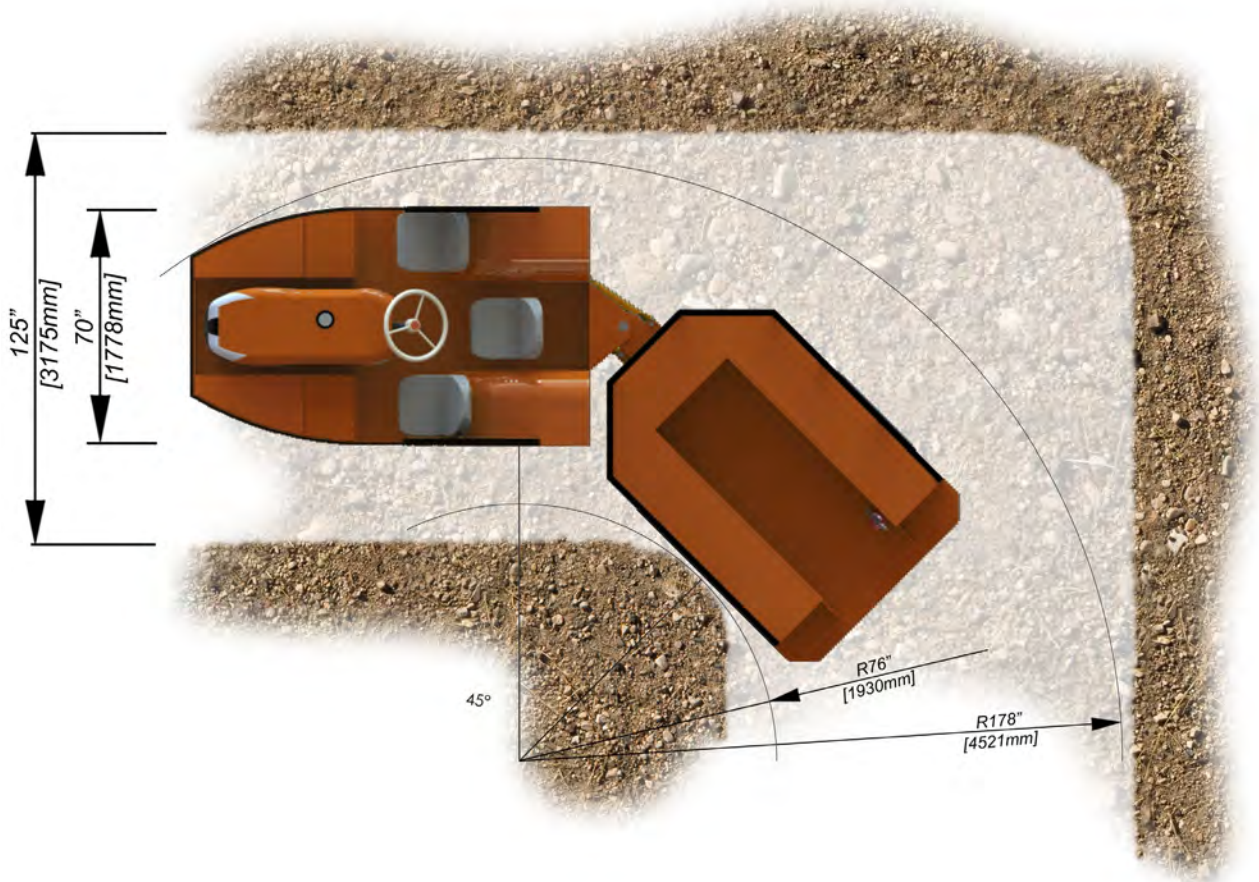
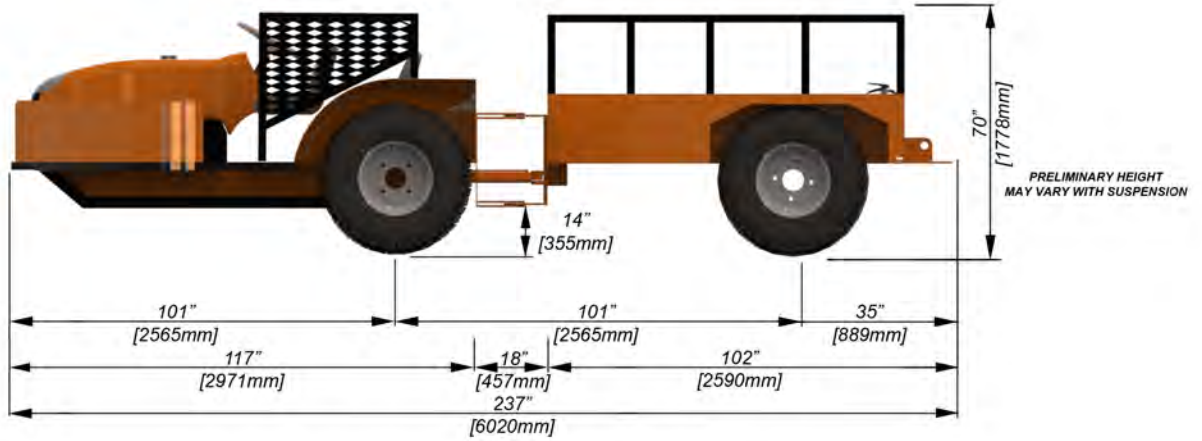
-  Jake Brake
-  Torque Lock Up
-  Double walled exhaust
-  Wrapped Exhaust
-  Auto Grease System
-  Heavy duty tow points
-  Heavy duty rub rail system
-  Easy access engine skid pan
-  Radiator access points via slotted radiator shrouds
-  Transmission: Electric modulated powershift
-  Transmission: Hydraulic powershift
-  Fire suppression: Checkfire system
-  Spare Rim and Tire
-  HTI Manifold and Turbo
-  Pendant Remote Control for Masts

## P-007 MAN CARRIER

The P-007 is a personnel carrier capable of carrying 7 passengers plus 1 driver. This unique unit uses the front section of a compact tractor and a truck style personnel carrying rear section. The two wheel drive articulated frame coupled with its low profile makes this the smallest most compact method of personnel movement available.



# P-007 MAN CARRIER



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# P-007 MAN CARRIER

## TECHNICAL SPECIFICATIONS

### MAIN DIMENSIONS

Total Length:	237in (6020mm)
Total Width:	70in (1778mm)
Total Height:	70in (1778mm)
Inner Turn Radius:	76in (1930mm)
Outer Turn Radius:	178in (4521mm)
Turn Angle:	45°

### APPROX. WEIGHT

Weight (Empty):	5600lb (2545kg)
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### ENGINE

Diesel Engine:	Interim Tier IV
Horsepower:	46HP
Fuel Tank:	48L

### POWER TRAIN

Transmission:	Gear synchro shuttle (8F/8R)
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### CAPACITY

Passengers:	7 Passengers + 1 Driver
-------------	-------------------------

# R-1000 Radio Remote

The Trident R-1000 radio remote control system is engineered and manufactured in close cooperation with our worldwide based customers. The radio remote control systems are engineered to ensure safe and efficient operations. Our systems have been designed based on the most advanced technology and components.



## STANDARD FEATURES

- \* Up to 64 Digital functions and up to 19 analogue functions
- \* Uses two batteries for a connection that allows for battery replacement without switching off the terminal (Hot Swap). Designed to operate a complete shift on a single charge.
- \* Perfect use for applications with many interconnected processes with the guarantee of non-interrupted operation
- \* Suitable for harsh environments
- \* High mechanical and chemical resistance due to the specific moulded housing design



## TYPICAL APPLICATIONS

- \* Mining: LHD equipment, block holers, shovels, bolters, jumbos, shotcrete sprayers
- \* Off Shore: oil skimmers, drilling rigs, catwalks, raiser chutes, roughnecks, BOP, ROV systems, pipe handlers, A-frames
- \* General Industry: forest winches, recovery vehicles, concrete pumps, conveyor belts, fire fighting systems, fuelling systems, locomotive

# R-1000 Radio Remote



## TECHNICAL DATA R-1000

Digital functions:	Up to 64
Analog functions:	Up to 19
LED:	Red, Green, Yellow, Blue
Display:	Graphical or character display
Battery:	Rechargeable 7.2 V 1700 mAh Li-ion
Battery Charger:	12-24 VDC, 110-230 VAC
Operating time:	Typical 20 hours, depending on configuration
Dimensions:	330x220x200mm (12.99x8.66x7.87in)
Weight:	1.5kg - 3.5kg (depending on configuration)
IP:	IP65 standard, IP66/67 optional
Temperature:	-25 to +50 Celsius, -13 to +122 Fahrenheit
Operating distance:	Approx. 200m line of sight
Frequency:	According to local authority guidelines

## TECHNICAL CHARACTERISTICS & OPTIONS

### Operating Terminal R-1000

- \* Operations 100% under control with a unique signal encoding preventing any unintended handling
- \* Activity Check on start up to guarantee safe operations
- \* Stop relay activation in only 50 ms
- \* Digital and analogue feedback
- \* Redundant radio solution
- \* License free frequency with low power outputs; European ISM band width
- \* 458.000 MHz-459.175 MHz (other frequencies available on request)
- \* PLC functionality for interlocking, sequencing and timing functions programmed directly without additional hardware.

### Base Unit/Receiver Unit R-1000

- \* The R-1000 base unit is very flexible as it can have multiple digital and analog inputs and outputs
- \* Easy use with direct connections to most available fieldbus systems: ProfiBus, ModBus RTU, CANopen, J1939, Device Net, Modbus Plus, Modbus TCP, ControlNet, Ethernet IP, HostLink.
- \* Back up solution with cable connection for programming and control.
- \* Twin battery connections (Hot Swap) for continuous operation.

## R-1000 MC-IRX

### Supply voltage receiver:

12/24 VDC  
110-240/389VAC 50/60Hz

### Receiver size:

IRX: 10x7.1x4.5in  
(255x180x115mm)

### Components:

- \* Safe Zone Base Unit to be mounted internally in customer's explosion proof enclosure.
- \* Standard I/O connections
- \* Base unit to be supplied 12/24 VDC
- \* 20 Solid state relay outputs
- \* 5 Amps
- \* Proportional Control Module
- \* Duplicated Monitored Emergency Stop
- \* Pre-wired Connector with matching hood
- \* Miniflex Antenna TNC
- \* Antenna Cable Aircell5 5 meters

# Strata Proximity System

Strata's proximity system helps the driver detect equipment and pedestrians within a specific area of the machine with the utilization of proximity modules generating electromagnetic fields around the machine. Two types of zones, the warning zone and danger zone, are established. If any other vehicle or personnel equipped with a PAD or VAD are in the warning zone, a flashing red light and a series of alarms will notify the driver, and the danger zone will output a constant red light and an alarm. Machines can also be programmed to shut down if they reach the danger zone. This system ensures the safety of pedestrian's and equipment.



## Operational Features

- \* Fields are enabled at all times when the machine is in motion
- \* Warning and stop zone field sizes are customized to the operation
- \* A silent zone generator is located in the operator's cab to prevent alarms
- \* The system resets when a PAD or VAD leaves the warning zone
- \* Each incursion into the warning or stop zones is recorded onboard
- \* Zones may be disabled when the ignition is turned off, the park brake or retarder is engaged, or based on the speed of the vehicle



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# Portable Wireless Camera System

Trident Mining Systems customizes remote camera systems to meet your needs. The portable wireless camera systems can connect up to 4 cameras, that have wide, narrow and close up camera angles. Camera's can be mounted by magnets or permanently mounted. Drivers will be able to view 360° around the machine, allowing safe and efficient operations.



## Camera Specifications

Image Device:	SHARP
TV System:	PAL/NTSC
Effective Pixels:	512 x 528 Pixels / 512 x 492 Pixels
Resolution:	420TV lines
Minimum Illumination:	0 Lux/F1.2 with IR
Microphone:	Yes
Video Output:	1.0vp-p, 750Ohm
AGC:	Auto
S/N Ratio:	Better then 48dB
White Balance:	Auto
Current Consumption:	Max. 300mA
Power Consumption:	12W (12V/1A)
Power Supply:	DC12V
Operating Temperature:	-20°C~70°C, RH95% MAX
Brightness:	400cd/M <sup>2</sup>



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# Re-manufacturing

Trident Mining Systems is known for rebuilding, repairing, and refurbishing all types of equipment. From electrical re-wires to rebuilding entire units, Trident can customize your project to suit your equipment needs.



**BEFORE**

**AFTER**

**BEFORE**



**BEFORE**

**AFTER**

**AFTER**

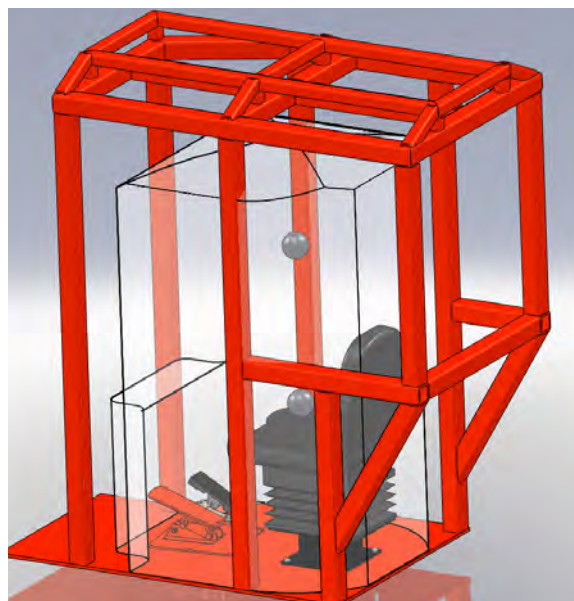


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# Customizable Cabs

Trident Mining Systems designs and manufactures operator cabs. All cabs are R.O.P.S/ F.O.P.S certified. Whether you want to customize an entire cab or just the layout of the dash, Trident will find the most efficient way to suit your needs.



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# Electrical Systems



Trident Mining Systems performs a variety of electrical solutions, including equipment fabricating, electrical rewires on equipment to electrical package kits. Trident's custom electrical packages include: lights, custom harnesses, dash, and all electrical field component's. All wiring and components are military spec to ensure performance quality. Trident also designs custom electrical systems upon customer request. With well designed electrical systems, superior components, and professional schematics, it dramatically lowers maintenance labour and costs.



## WIRING

- \* Military Spec.
- \* Self extinguishing
- \* Non-flammable
- \* Excellent resistance to thermal aging
- \* Resists solvents, greases, ozone and most other chemicals
- \* Stable electrical characteristics with low power loss
- \* Ideal for high frequency applications

## LOOM

- \* European subway rated
- \* Temperature range: -40°F to 221°F
- \* Short term temperature resistance up to 300°F
- \* Self extinguishing
- \* Non-flammable
- \* Excellent resistance to chemicals, fuels, mineral oils, fats, alkalis, and acids
- \* Made of specially modified polyamide (PA6)
- \* Free of halogens, phosphor and cadmium
- \* Minimal development of smoke and gas

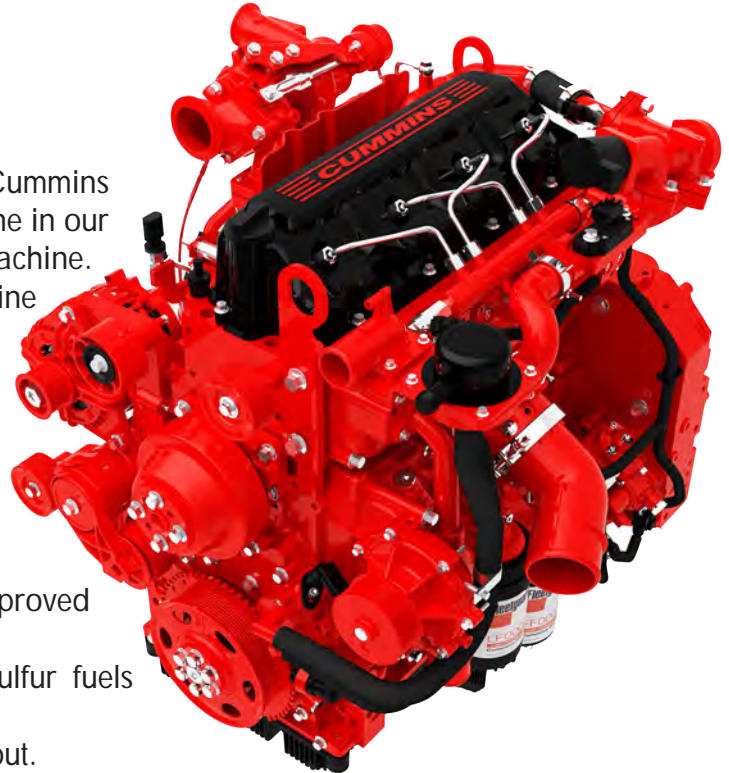
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# Cummins

Trident Mining Systems is an authorized Cummins installer. Cummins engines are the standard engine in our product line and can also be installed in any machine. All Cummins parts and options are available online in 2D and 3D.



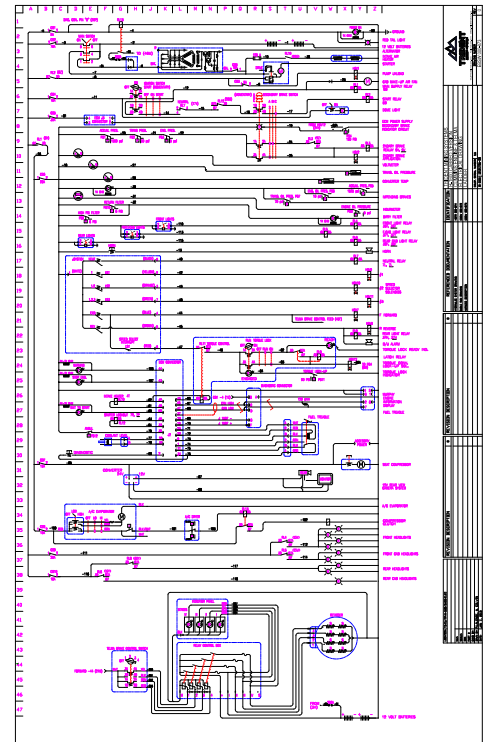
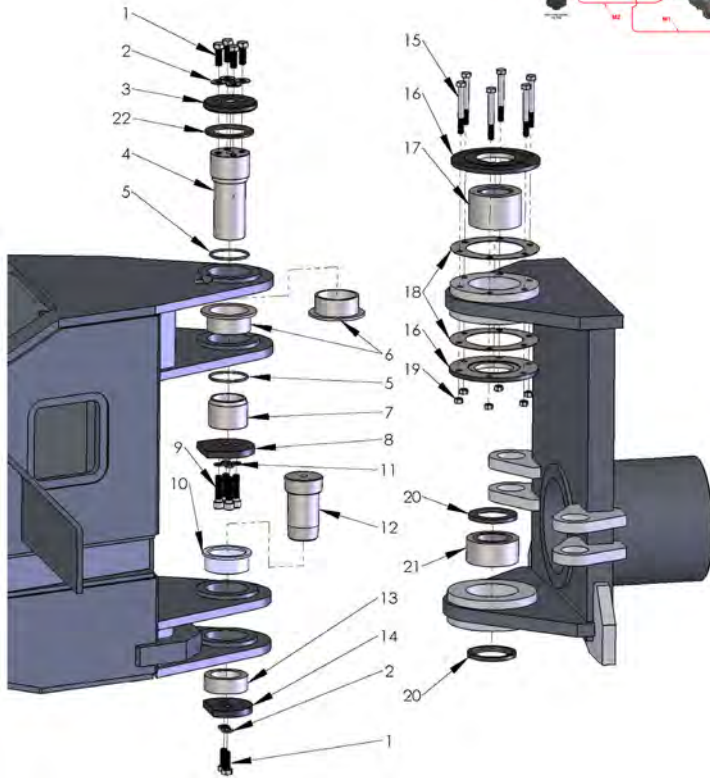
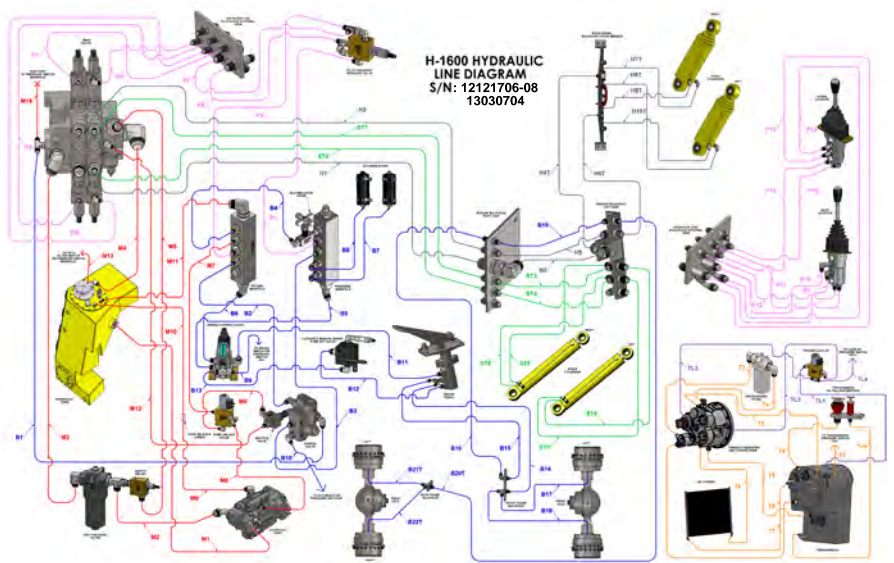
## Standard Features

- \* Tier 3/Stage IIIA compliant.
- \* High Pressure Common Rail Fuel System for improved performance and fuel efficiency at every RPM.
- \* Meets emissions standards even with high sulfur fuels making it compatible for world wide use.
- \* Rear Gear Train significantly lowers noise output.
- \* Full Authority Electronic Controls optimize engine performance and provides advanced diagnostics.
- \* Holset Turbo offers better low-speed performance and high-speed boost
- \* Two stage fuel filtration protects vital fuel system components
- \* Designed to run up to 500hrs between scheduled fuel and oil filter changes.
- \* Advanced electronics can be modified to enhance power curves and trim ratings.
- \* The electronic package allows for field-testing so the engine can be calibrated to match the needs of the customer.
- \* 2-Year/2000 hr. Base Warranty.



# Documentation

Trident Mining Systems offers well organized documentation packages that make troubleshooting and maintenance very efficient. Documentation created with the utilization of 3D modeling, hydraulic/electrical schematics, hose line diagrams, detailed parts and service manuals which are designed to be easy to understand and help identify issues or parts on your equipment. We also create interactive documentation and Catbase manuals upon request.



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# Dieci Telehandlers

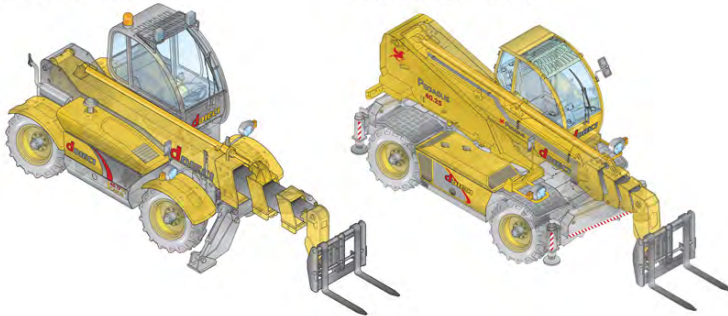


Trident Mining Systems is also a Dieci telehandler dealer. Dieci is the 3rd largest telehandler manufacturer in the world. Dieci has 2 different style of machines, fixed-arm and a rotational body machine. With a variety of sizes, Dieci's telehandlers address all industry sectors including construction, agriculture and mining. There are many different attachments such as buckets, fork lifts, jibs, hooks, and man baskets. Each attachment can be removed easily and replaced by another attachment. Trident offers these units and underground ramp tested versions as well.



FIXED-ARM MACHINE

ROTATIONAL BODY MACHINE



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