



*Getman tow tractors are designed to move supplies around underground coal mines safely and efficiently, ensuring materials arrive where they are needed and when they are needed. The diesel engine package eliminates the issue of intermittent power problems associated with battery operation, and all engines are MSHA certified for outby operation. Getman tow tractors are purpose-built underground machines and can haul multiple trailers using either a pintle hitch, Willison coupler or a 5th wheel coupler.*

*Getman's LRD224 Tow Tractor is a lower profile machine designed for operating heights as low as 55 inches, supply up to 21,000 lb of tractive effort and are available with a hydraulic PTO to power auxiliary equipment. Multiple tire sizes allow for different mining heights, while multiple cabin options are available depending on heat and noise levels in the working area. All Getman underground coal equipment is available with a variety of DPF and exhaust treatment options ensuring local requirements are satisfied.*

*LRD tow tractors protect worker safety through features such as available cameras for better site lines as well as fully certified fire suppression systems. The MSHA certified operator compartment protects workers from rock fall situations when operating underground.*

## Technical Specifications

### Engine

- EPA Tier II or III approved engine - 4-cylinder
  - › Deutz 2012 Tier II, 103 kW (138 hp)
  - › Mercedes Benz OM904LA Tier III, 150 kW (173 hp)
- Liquid-cooled, turbocharged
- 144 L (38 gal) fuel tank with self-closing cap

### Exhaust System

- DPF exhaust and silencer
  - › Mann+Hummel SMF package
  - › Cleanair soot filter package
  - › Chiller dry exhaust DPM package
  - › ECS S18 Combifilter package with heat blanket

### Transmission

- Dana Clark 32000 powershift transmission
- Four speeds forward and reverse
- 4-wheel drive
- Dana Clark C270 torque converter

### Axles

- Enhanced capacity Deere 1200 TMII planetary drive axle package
- Manually controlled front axle differential lock

### Tires

- 12.00x20-28pr mine service tires
  - › Pneumatic
  - › Foam-filled

### Brake System

- Fully hydraulic wet disc service brakes on each axle
- Spring applied, hydraulic pressure release driveline wet multiple disc supplemental and park brake
- Automatic secondary brake application upon fire suppression activation, or loss of brake accumulator pressure, transmission pressure or electrical power
- Hand-pump emergency park brake tow release package

### Steering

- Electric stick controlled articulated frame steering
- Heavy-duty, tapered roller bearings
- Two double-acting steer cylinders with replaceable bushings in cylinders and frame ears
- 40° articulation each direction

### Hydraulic System

- Hot side/cold side engine layout
- Hydraulic hoses routed to cold side of engine
- Closed center hydraulic circuits with piston hydraulic pumps
- Diagnostic test ports with quick couple fittings for: each axle, service brake application pressure, and hydraulic pumps
- 10-micron in-tank filter
- 265 L (70 gal) hydraulic reservoir
- Hydraulic PTO 33 gpm @ 1800 psi

### Operator Compartment

- Three-point contact for entry and exit
- MSHA certified compartment
  - › Open compartment
  - › Adjustable canopy
  - › Enclosed cabin with heater
- Mechanical suspension operator seat
- Retractable lap seat belts

### Instrumentation

- Engine and transmission gauges
- Engine temperature
- Engine oil pressure
- Voltmeter
- Hour meter
- Tachometer
- Transmission clutch pressure
- Converter temperature
- Brake accumulator pressure gauge
- Brake accumulator low-pressure warning
- Park brake applied warning light
- Automatic shutdown for high engine temperature
- Automatic shutdown for low engine pressure
- Automatic shutdown on fire suppression activation

### Electrical System

- 24 V, 100 A alternator
- Lockable electrical master switch (lockout)
- Maintenance-free 12 V batteries
- MCI T50 lighting: two front headlights, two rear headlights, two crosscut/rib lights
- Sealed and oil resistant wiring
- Fully sealed connectors
- Fully sealed electrical boxes

### Other General Equipment

- Variable audio backup alarm (87-112dBA)
- 4.5 kg (10 lb) fire extinguisher
- Wheel chocks
- Eight nozzle Ansul Checkfire automatic actuation fire suppression system with linear detection loop



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## **Towing System\***

### **Tow Tractor Setup**

- Trailer brake package
- Optional item on front frame
  - › Willison coupler
  - › Bolt-on 90,000 lb pintle hook
- Choice of Flatdeck or Fifth Wheel rear frame configuration

### **Flatdeck Configuration**

- 8 ft flatdeck with built-in counter weight
- Two passenger seats in rear frame
- Willison coupler on rear frame

### **Fifth Wheel Configuration**

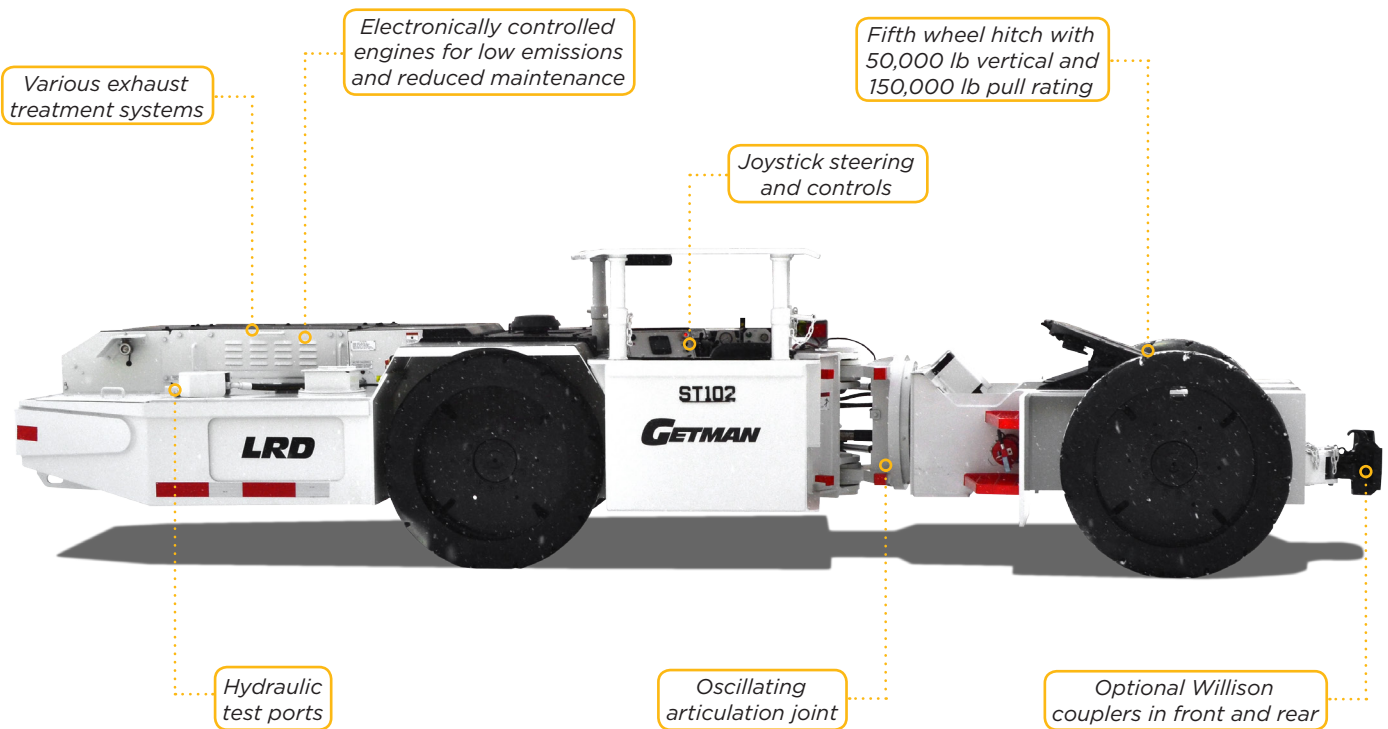
- Fifth wheel hitch, 44 in above ground with 50,000 lb vertical and 150,000 lb pulling rating
- Optional item on rear frame
  - › Pintle hitch
  - › Pocket for Willison coupler
  - › Manual Willison coupler

### **Other Configurations**

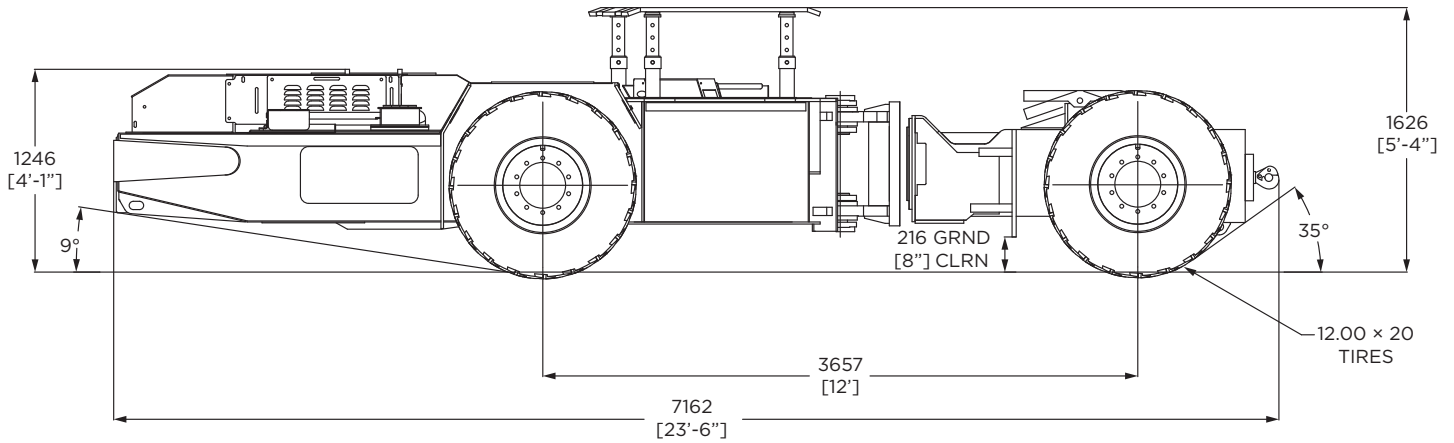
- Service Lube/Fuel
- Service Mechanics
- Personnel Carrier
- Flameproof

*\*Consult Getman for special configurations*

### Design Features and Layout



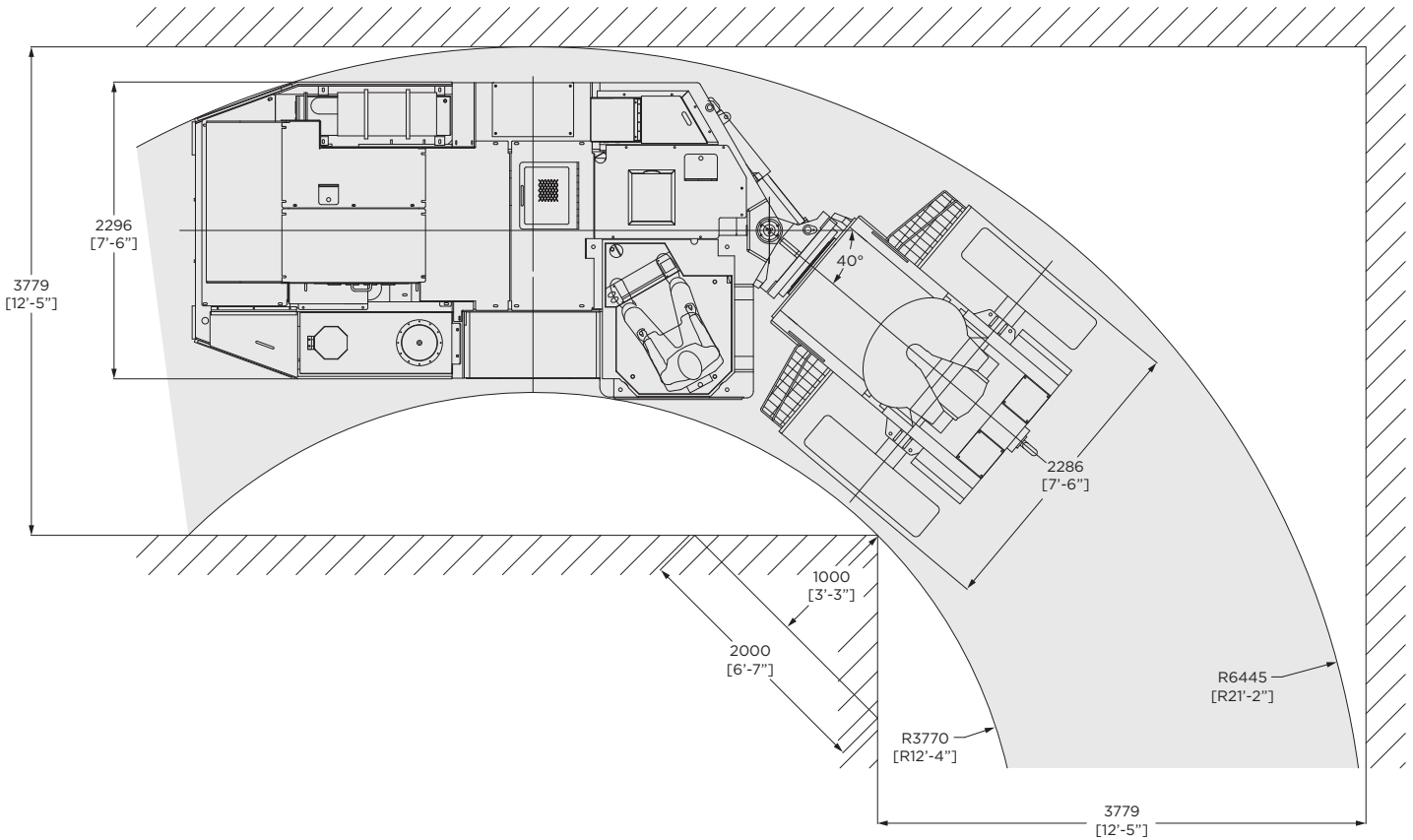
## Dimensions and Maneuverability



Machine Length	7162 mm	282 in
Wheelbase Length	3657 mm	144 in

Tires	Canopy Height	Ground Clearance	Operator Head Height (Low Seat)	Operator Head Height (Standard Seat)
35x15	55" - 61"	4.25"	52"	55"
38x16	57" - 63"	6.25"	54"	57"
12x20	58.75" - 64.75"	8"	55.75"	58.75"

## Dimensions and Maneuverability



Machine Width	2296 mm	90 in
Inner Turning Radius	3770 mm	148 in
Outer Turning Radius	6445 mm	254 in

## About Getman Corporation

Getman Corporation is a global supplier of mobile equipment to the mining industry, offering customer-specific solutions to underground mines in the production and production support classes of equipment. All Getman equipment is designed with extensive research and development and is supported by over fifty years of experience in serving the underground mining industry.

Through our network of distributors we sell and support our products on six continents, offering exceptional product solutions and following up with world class aftermarket support. At Getman Corporation, designing and building trucks for the underground mining industry is what we do. We take pride in being the preferred supplier of underground production and production support equipment to miners globally by offering customer-specific, value-driven and long-lasting solutions.

For more information contact your Getman distributor or email us at [info@getman.com](mailto:info@getman.com), or visit our website at [www.getman.com](http://www.getman.com).

For parts or service support, email us at [parts@getman.com](mailto:parts@getman.com) or [service@getman.com](mailto:service@getman.com).



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*Pictured machines in this document may contain optional and additional equipment.*