

CONCRETE SPRAYING & TRANSPORT
PRODUCT CATALOG
FEATURES - CONFIGURATIONS - SPECIFICATIONS



GETMAN



Concrete Spraying: Safety and Productivity

The Getman line of concrete spraying and transport vehicles provides a complete solution for transporting, spraying and pouring concrete in underground mining applications, and incorporates Getman's 60 years of experience in designing and manufacturing equipment for the underground mining industry.

Getman concrete sprayers are built for productivity and safety, and drive value through precise and efficient application of shotcrete in virtually any underground application. Getman shotcreters are purpose-built with features intended to maximize operator safety and comfort, reduce cost, and deliver reliable, consistent performance.

Getman's line of concrete transport vehicles is built on our A64 HD chassis, a heavy duty carrier designed specifically for transporting heavy loads in the extreme conditions of underground mining. Getman A64 HD concrete transport vehicles are designed to perform with uncompromised uptime and reliability, and maximize worker safety and comfort through ergonomic design.



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Getman Corporation assembled this catalog with the intention of passing along the most accurate information possible, however this document shall not be binding in any way and shall be considered informational only. Getman reserves the right to make changes to the specifications herein at any time and without further notification.



Technical Features

ENGINE*

- Tier III Engine - 6-Cylinder
 - › Mercedes Benz OM906LA, 150 kW (201 hp) @ 2200rpm
 - › Cummins QSB6.7L, 164 kW (220 hp) @ 2200rpm
- Donaldson Dry Dual Element Air Cleaner
- Catalytic Exhaust Purifier with Muffler
- 24 V Alternator
 - › 100 A (Remixer Models)
 - › 140 A (Shotcrete Models)
- 151L (40 gal) Fuel Capacity

TRANSMISSION

- Dana 32000, 3-Speed Transmission
- 4-Wheel Drive

AXLES AND TIRES

- Planetary Drive Axles, Carraro 28.60
- Mine Service Tires
 - › 12.00×20-28PR (Shotcrete and A 50 Models)
 - › 14.00×24-28PR (R 60 and A70 Models)

INDEPENDENT BRAKING SYSTEMS

- Service Brakes: Spring Applied, Hydraulic Released, Reverse Modulating Wet Disc Brakes on Each Axle
- Secondary Brake: Spring Applied, Hydraulic Released Wet Disc
- Automatic Secondary Brake Application Upon Loss of Brake Accumulator Pressure, Transmission Pressure or Electrical Power

ARTICULATED STEERING

- Tapered Roller Bearings Inside Articulation Joint
- Two Double-Acting Steering Cylinders

HYDRAULIC SYSTEM

- Closed Center Hydraulic Circuits with Piston Hydraulic Pump

INSTRUMENTS AND ELECTRICAL

- Multi-Function Color Display Monitor with Full Instrumentation and Backlit Keypad
- CAN-based Continuous Monitoring, Control and Diagnostics for Engine, Drivetrain and Braking Performance
- On-Screen Alarms and Troubleshooting
- Lockable Battery Master Disconnect Switch
- LED Lighting Package
- Point-to-Point Wiring System, Fully Sealed and Self-Extinguishing

OPERATOR STATION

- Three-Point Contact for Entry and Exit
- ROPS/FOPS Certified Compartment
 - › Open Canopy
 - › Enclosed Cabin with Heater and Air Conditioner
- Mechanical Suspension Driver Seat

STANDARD EQUIPMENT

- Audio Backup Alarm, Variable Output from 87-112 dBA
- One 2.3 kg (5 lb) Fire Extinguisher
- Ansul Fire Suppression System (Ansul LTA-101-30) Tied to Engine Shutdown
- White Epoxy Finish Paint

TRAMMING GRADIENTS

- 17% Max Recommended Longitudinal Gradient While Driving
- 5% Max Recommended Transverse Gradient While Driving

WARRANTY

- 1 Year/2,000 Hour Standard Warranty
- 5 year/10,000 Hour Warranty on Frame

**4-Cylinder Engine Options Available*



Shotcrete Sprayers

The Getman SST Shotcrete sprayer provides a fully outfitted shotcrete sprayer designed and proven to deliver smooth, consistent application of shotcrete in any stage of the underground mining cycle. It features an unparalleled boom coverage area, enabling extended spraying coverage in normal drifting situations. Optimal boom positioning minimizes wasted material, and improves coverage when shooting blind corners and bulkheads.

The design reflects Getman's 60 years of serving the mining industry, maintaining a balance between a maneuverable chassis size and a layout which facilitates safe and easy daily maintenance.

The SST Shotcrete is a diesel/hydraulic chassis equipped for use with mine air. An optional onboard hydraulically-driven air compressor provides enhanced utilization for concrete spraying in areas without access to mine air systems.



DESIGN

- Available high-pressure wash and form oil spraying systems featuring spring-return hose reels
- LED lighting package featuring nine high-lumen work lights illuminating the spraying area, rear hopper area and truck midsection, each with separate switch controls for optimum lighting
- Mine air hookup with 30 m (100 ft) spring-return hose & reel
- 283 L (75 gal) concrete hopper capacity with hydraulic agitator, hinged grate for easy access and cleanout, and hydraulically adjustable hopper height
- Corded remote control for boom/nozzle positioning with shotcrete pump output

OPERATOR SAFETY AND COMFORT

- Ergonomically-designed operator compartment and controls provide safety and productivity through increased comfort and efficiency
- Mechanical suspension seat featuring adjustable lumbar support, head rest, suspension level and fore & aft positioning to prevent worker fatigue and injury
- Full instrumentation on a color display screen for easy monitoring, and all switches are logically grouped
- Joysticks mounted on the seat armrests with sliding adjustments to ensure a safe and comfortable reach

CONCRETE PUMP

- Smooth, variable flow shotcrete pump delivering a max theoretical output of 31 m³/hr (40 yd³/hr)
- Advanced swing-tube design minimizes kicking, reducing long-term wear of components
- Long-life wear parts minimize required maintenance intervals

ADMIXTURE DOSING SYSTEM

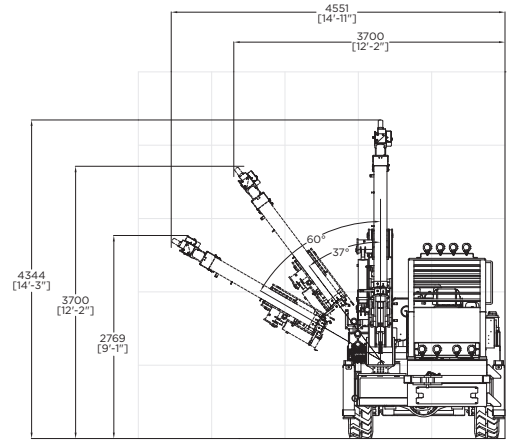
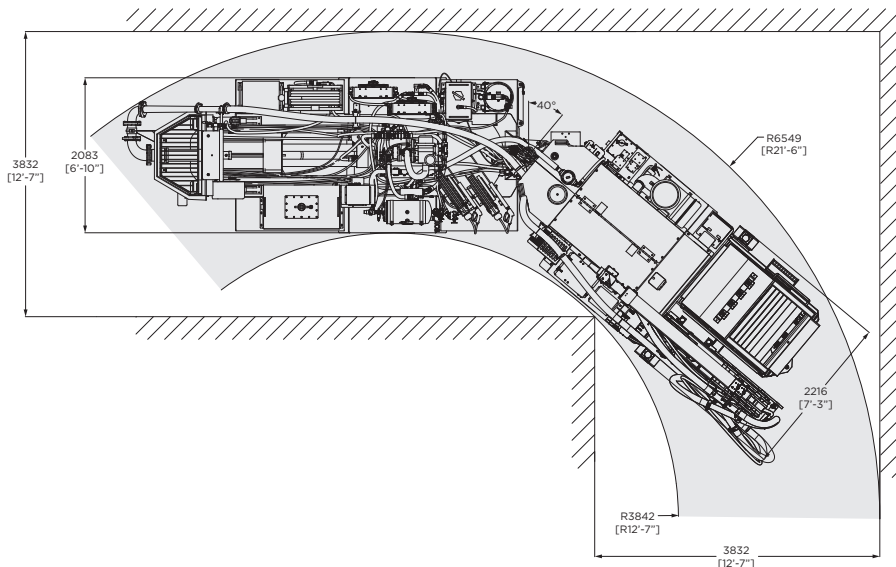
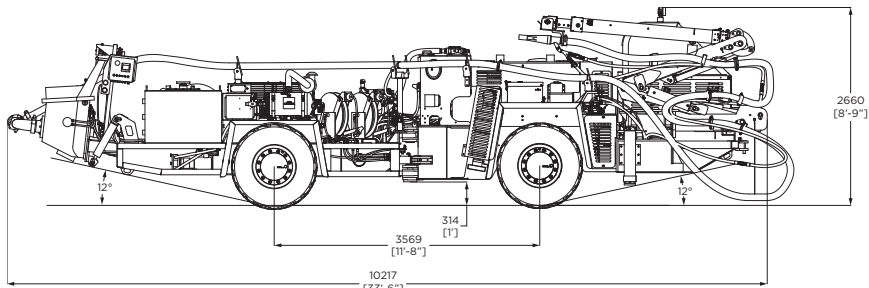
- Accelerator dosing system automatically synchronizes to the actual concrete pump output without requiring further input from the operator
- 378 L (100 gal) onboard stainless steel admixture tank with sight gauges
- Programmable peristaltic admixture pump of 0 - 7.56 L/min (0 - 2 gpm) @ 8 bar (115 psi)

BOOM COVERAGE (see Page 5-6 coverage diagrams)

- Boom can reach around corners and curves to ensure the machine and operator are never required to travel under unsupported ground
- Boom and nozzle can easily be positioned to spray bulkheads and faces
- Maximum boom height coverage of 10.5 m (34.5 ft)
- Capable of spraying downward in raises



SST SHOTCRETE



Boom Unfolding Requirements

Gross Vehicle Weight: 14,515 kg (32,000 lb)

BOOM DESIGN

- Boom stowed over chassis during tramming for added protection and reduced strain and fatigue
- Multiple boom unfolding scenarios allows easy unfolding in a variety of heading sizes (see *Boom Unfolding Requirements diagram above*)
- Parallel boom and nozzle positioning permits optimal spraying angles and minimal operator inputs during normal drifting spraying
- Enhanced coverage areas for spraying in multiple additional settings
- Heavy-duty plate steel construction for long life and smooth flow

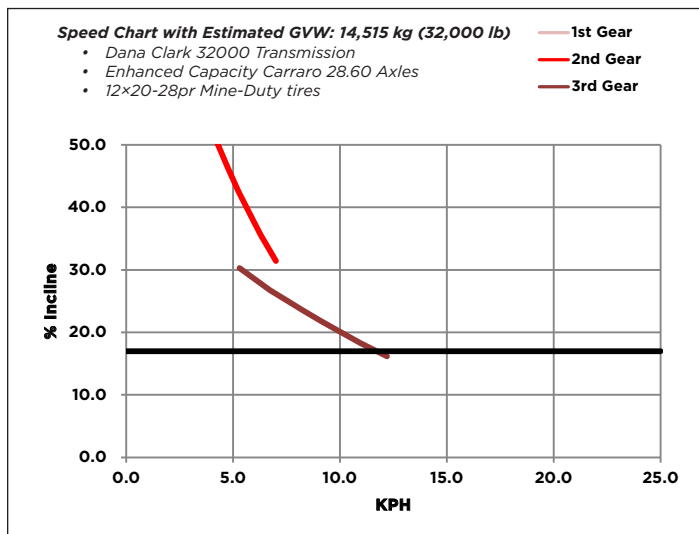
NOZZLE

- 63.5 mm (2.5 in) diameter venturi-style nozzle equipped with admixture and compressed air connections
- 360° nozzle rotation with 140° tilt
- Automated oscillating nozzle sweep feature

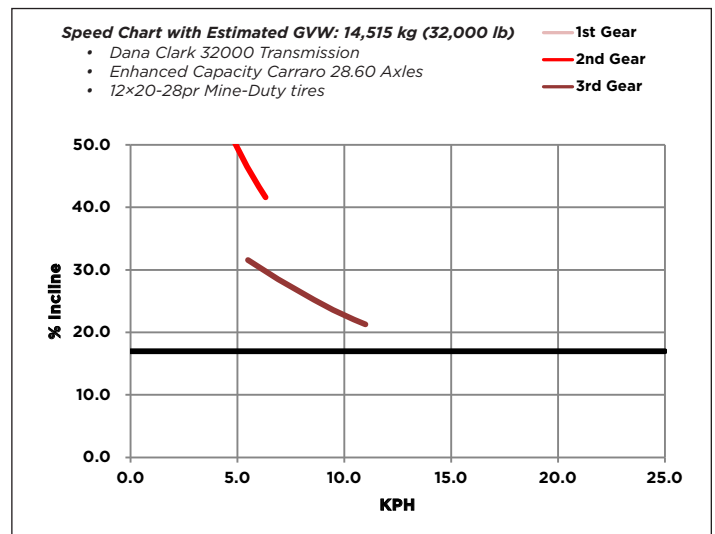
OPTIONS

- Onboard PTO-driven 5.66 m³/min (7.41 yd³/min) mechanical air compressor (requires 6-cylinder engine)
- Wireless remote control for boom and pump functions; backup battery and battery charging station located in operator compartment
- Onboard water tank for high-pressure wash system

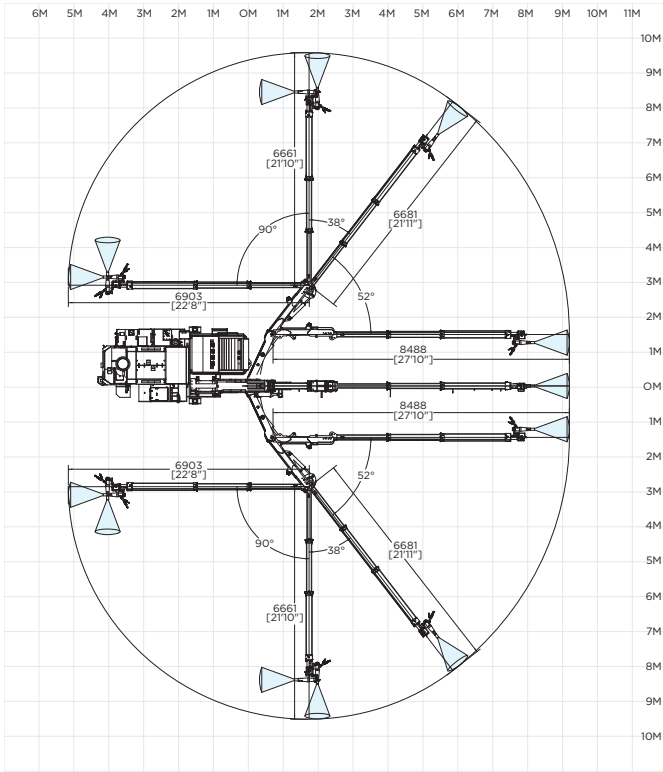
Mercedes Benz OM906 Engine Package



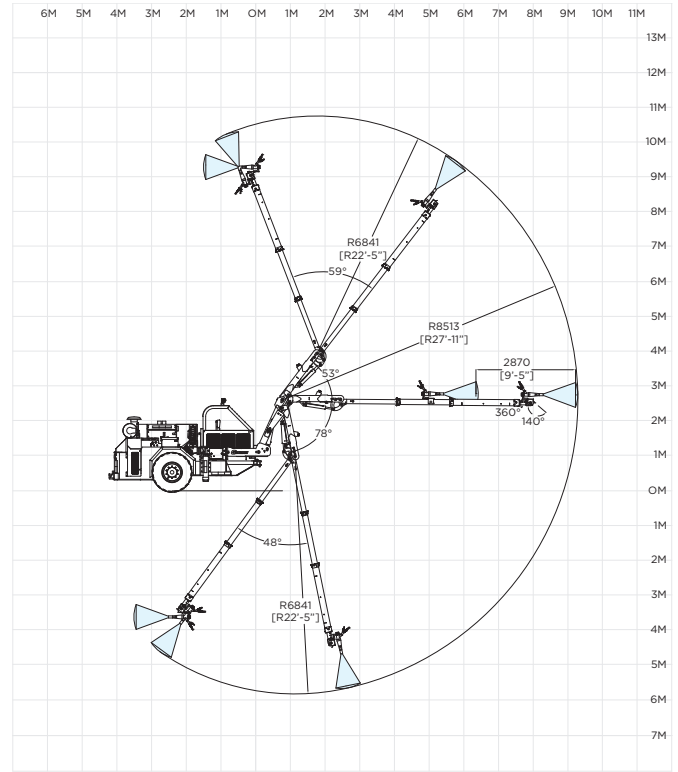
Cummins QSB6.7 Engine Package



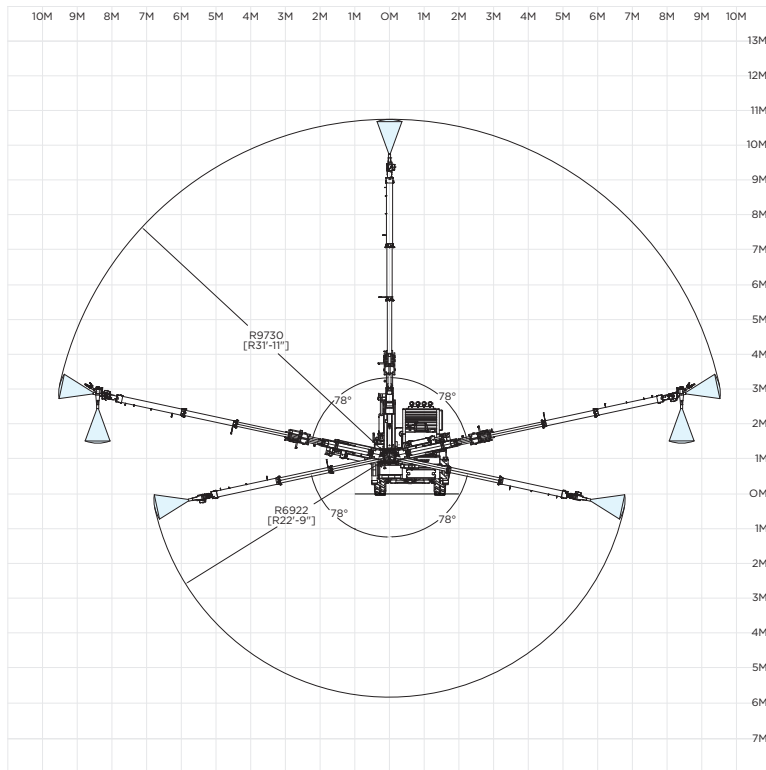
Shotcrete Sprayer Coverages



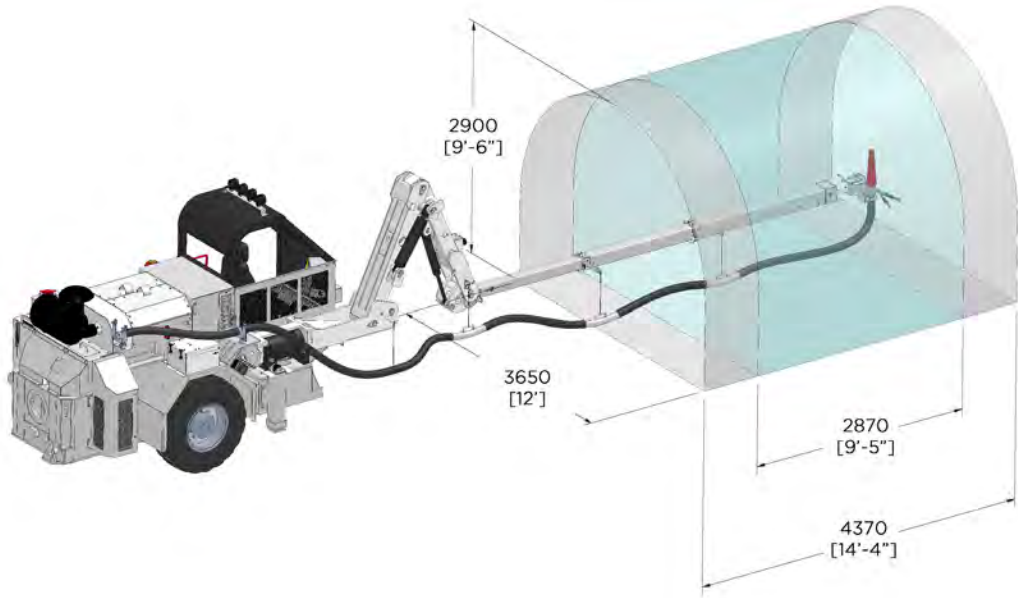
Maximum Coverage - Top View



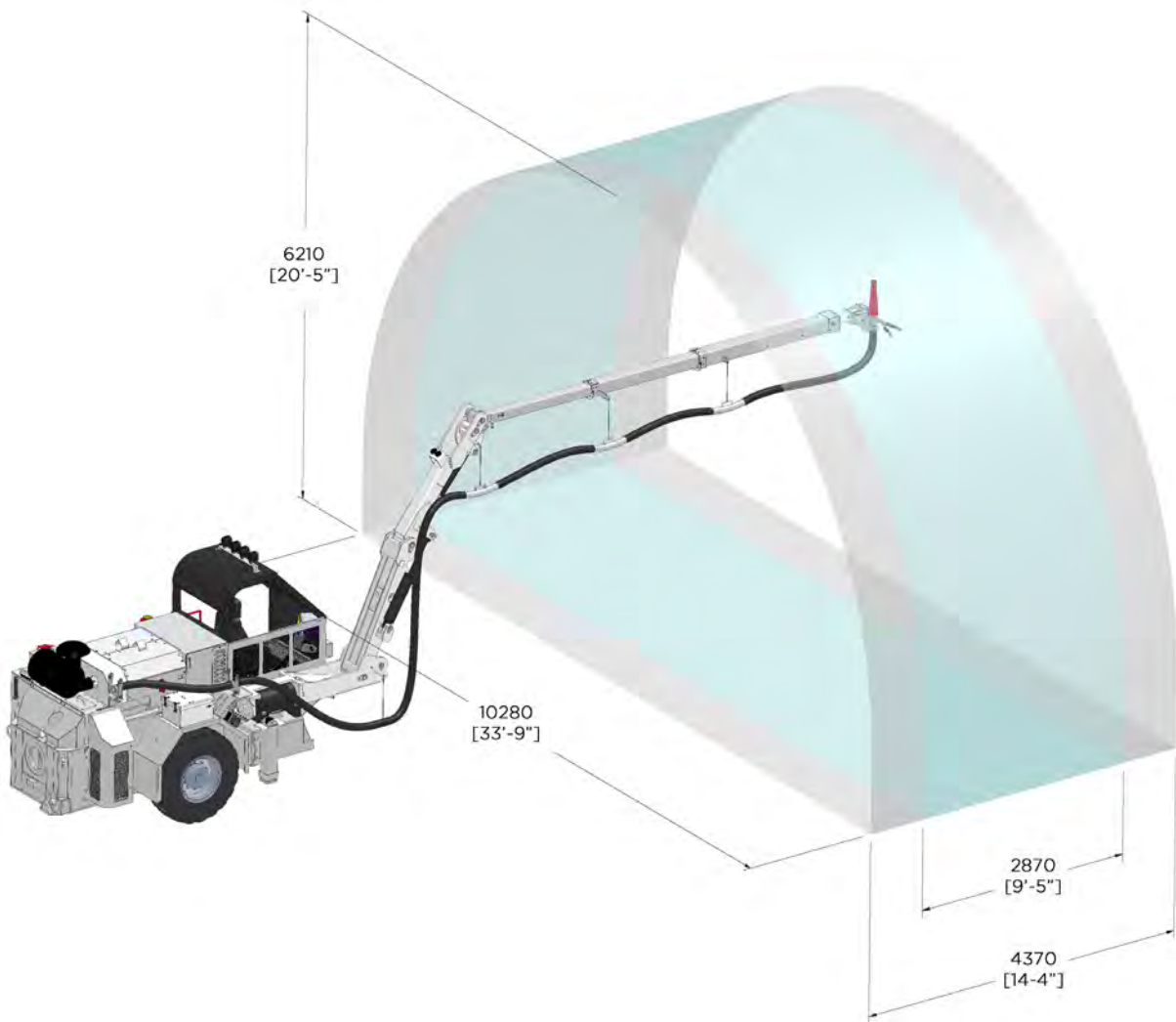
Maximum Coverage - Side View



Maximum Coverage - Front View



Horizontal Drifting Coverage - Lower Envelope



Horizontal Drifting Coverage - Upper Envelope

Remixers & Agitators

The Getman line of concrete transport vehicles delivers concrete in harsh underground environments while maintaining maximum reliability and uptime. A Getman fleet delivers concrete where it is needed, when it is needed. The A64 HD (Heavy Duty) chassis accommodates heavy payloads and features a high-capacity, widespread articulation joint with internal tapered roller bearings, a certified ROPS/FOPS canopy at full capacity and superior ground clearance for extreme ground situations.



Getman's A64 HD carrier maximizes operator comfort and features a dual-position, fully adjustable operator seat to facilitate optimum operator orientation for forward and reverse tramming. The A64 HD also offers enhanced ride performance through high-capacity pneumatic tires and mechanical suspension operator seating. All operator displays and readouts positioned to allow for an optimum operator viewing angle.

DESIGN

- Onboard high-pressure water spray system facilitates easy cleaning between work operations
- Easy access from ground level for all daily maintenance checks and operations, and all sight gauges
- Walkways located on each side of the concrete drum for easy access during filling and cleaning

DRUM FEATURES

- Variable speed (0 - 15 rpm) hydraulic drive
- Bidirectional drum rotation
- Separate rotation speed and rotation on/off controls for easy start/stop of drum rotation
- LED lighting illuminates the rear truck working area

OPERATOR SAFETY AND COMFORT

- Ergonomically designed operator compartment and controls provide safety and productivity through increased comfort and efficiency
- Dual-position operator seat with forward and side facing positions for optimal tramming visibility and comfort (see pictures on right)
- Mechanical suspension seat features adjustable lumbar support, optional head rest, suspension level and fore & aft positioning to prevent worker fatigue and injury

OPTIONS

- Admixture transfer package features stainless steel tank and transfer pump for reloading shotcrete sprayer admixture
- Form oil spray-down package
- Back-up camera
- Rear drum tilt option (R 50 and R 60 models)

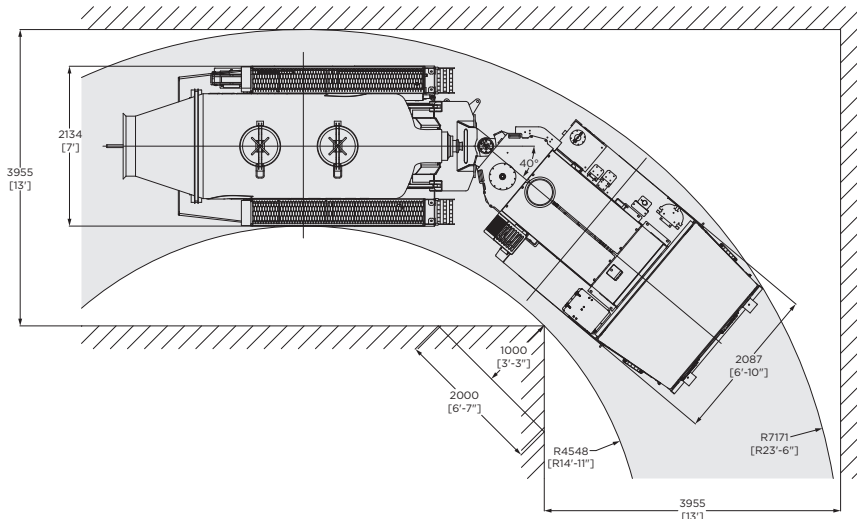
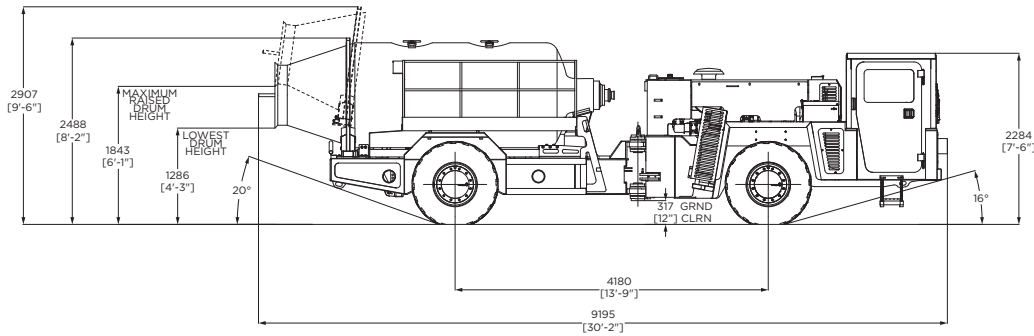


**Rotating Seat
Forward Position**

**Rotating Seat
Side Position**



A64 HD R 50



A64 HD R 50 Capacities		
Concrete Fill	3.8 m ³	5.0 yd ³
Water Fill	4.8 m ³	6.28 yd ³

Vehicle Weight Unloaded: 12,400 kg (27,300 lb)

Vehicle Weight Loaded: 21,800 kg (48,000 lb)

Mercedes Benz OM904 Engine Package

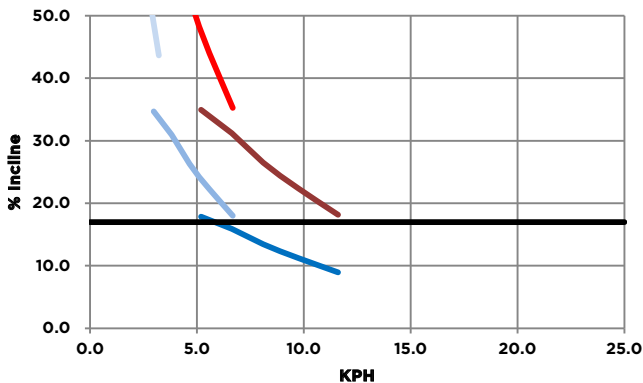
Stage	Tier III
Design	4 Cylinders in line, water cooled
Max Power	129 kW (173 hp) @ 2200 rpm
Exhaust System	Catalytic exhaust conditioner and silencer
Aspiration	Turbocharged
Fuel Consumption	220 g/kW-hr (0.361 lb/hp-hr)

Speed Chart with Estimated GVW: 12,400 kg (27,300 lb)

- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 12x20-28pr Mine-Duty tires

Speed Chart with Estimated GVW: 21,800 kg (48,000 lb)

- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 12x20-28pr Mine-Duty tires



Cummins QSB4.5 Engine Package

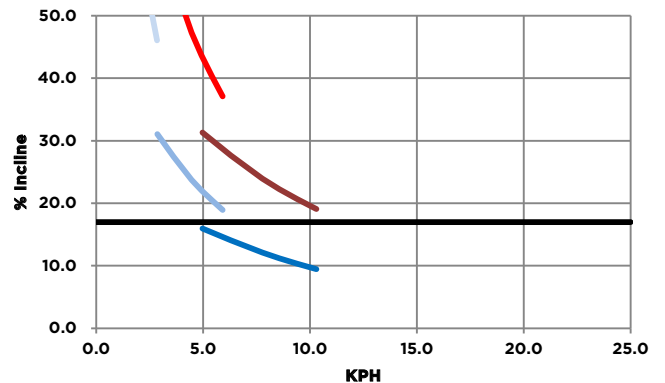
Stage	Tier III
Design	4 Cylinders in line, water cooled
Max Power	127 kW (170 hp) @ 2200 rpm
Exhaust System	Catalytic exhaust conditioner and silencer
Aspiration	Turbocharged
Fuel Consumption	243 g/kW-hr (0.399 lb/hp-hr)

Speed Chart with Estimated GVW: 12,400 kg (27,300 lb)

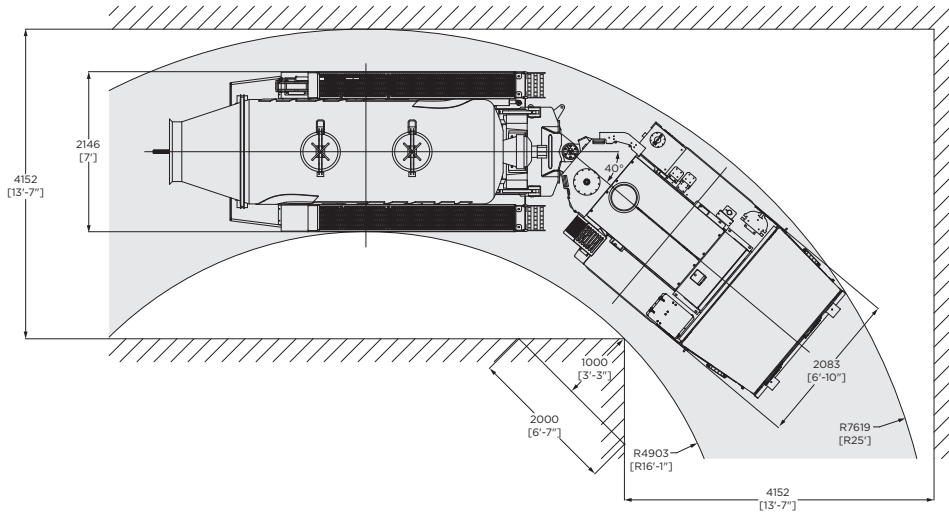
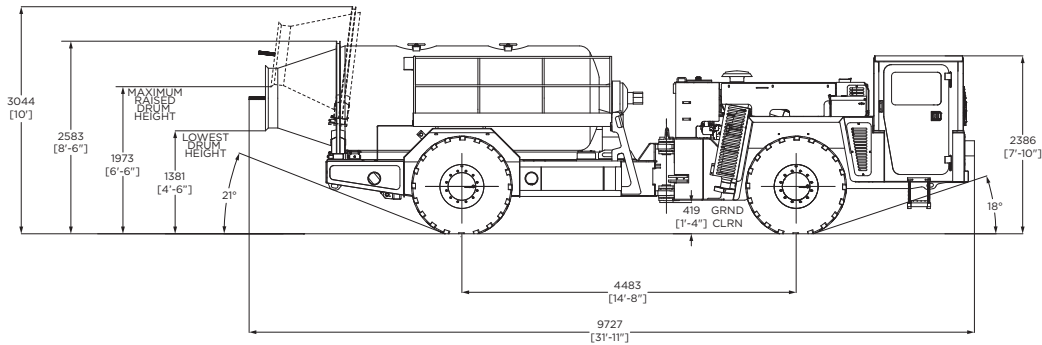
- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 12x20-28pr Mine-Duty tires

Speed Chart with Estimated GVW: 21,800 kg (48,000 lb)

- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 12x20-28pr Mine-Duty tires



A64 HD R 60



A64 HD R 60 Capacities		
Concrete Fill	4.6 m ³	6.0 yd ³
Water Fill	5.7 m ³	7.45 yd ³

Vehicle Weight Unloaded: 13,500 kg (29,800 lb)

Vehicle Weight Loaded: 24,700 kg (54,500 lb)

Mercedes Benz OM906 Engine Package

Stage	Tier III
Design	6 Cylinders in line, water cooled
Max Power	150 kW (201 hp) @ 2200 rpm
Exhaust System	Catalytic exhaust conditioner and silencer
Aspiration	Turbocharged
Fuel Consumption	220 g/kW-hr (0.361 lb/hp-hr)

Cummins QSB6.7 Engine Package

Stage	Tier III
Design	6 Cylinders in line, water cooled
Max Power	164 kW (220 hp) @ 2200 rpm
Exhaust System	Catalytic exhaust conditioner and silencer
Aspiration	Turbocharged
Fuel Consumption	232 g/kW-hr (0.381 lb/hp-hr)

Speed Chart with Estimated GVW: 13,500 kg (29,800 lb)

- Dana Clark 32000 Transmission
- Standard Heavy-Duty Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires

Speed Chart with Estimated GVW: 24,700 kg (54,500 lb)

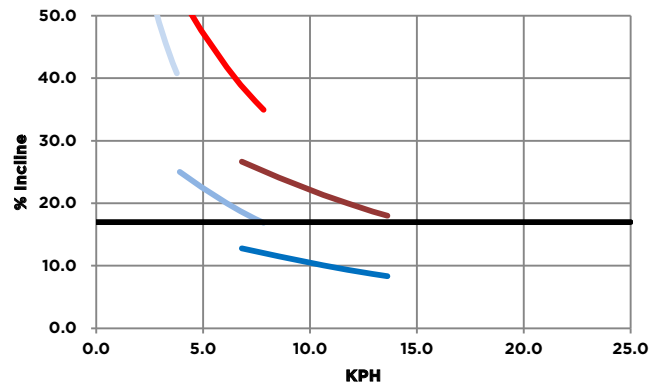
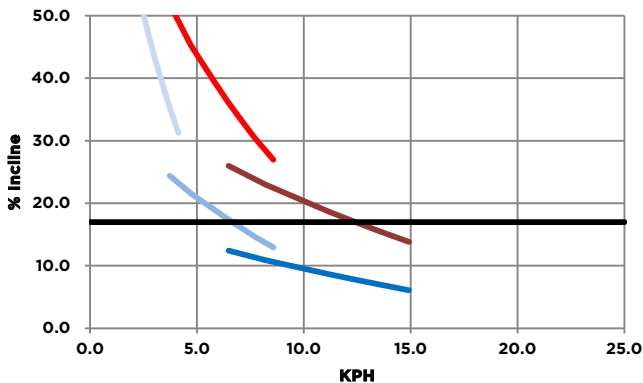
- Dana Clark 32000 Transmission
- Standard Heavy-Duty Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires

Speed Chart with Estimated GVW: 13,500 kg (29,800 lb)

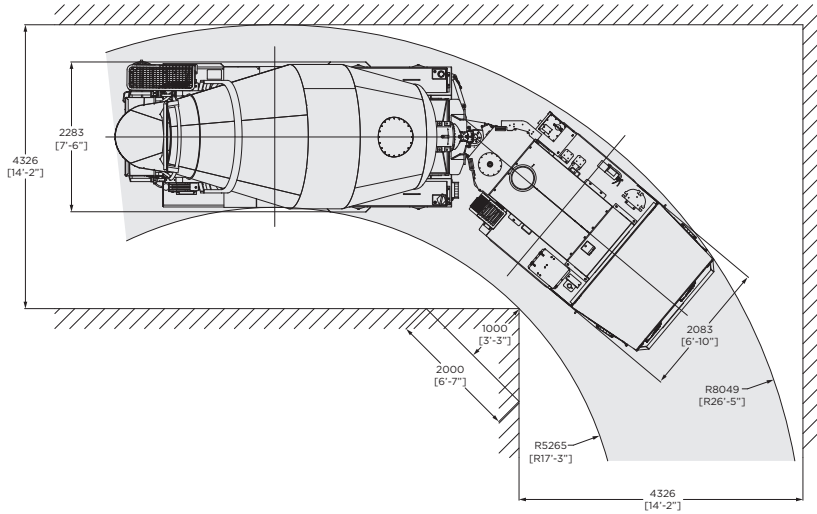
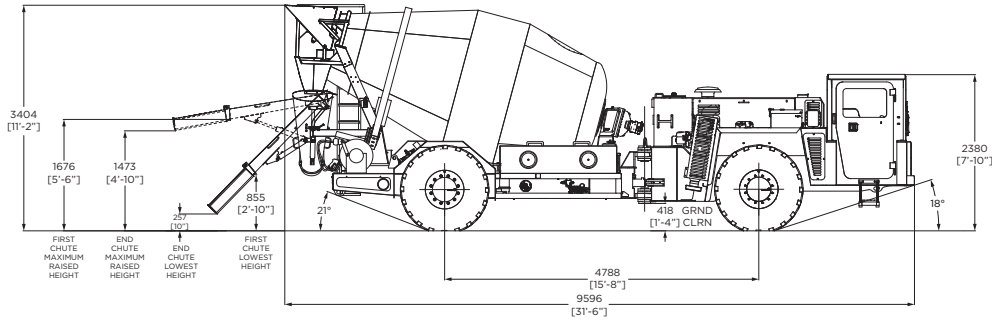
- Dana Clark 32000 Transmission
- Standard Heavy-Duty Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires

Speed Chart with Estimated GVW: 24,700 kg (54,500 lb)

- Dana Clark 32000 Transmission
- Standard Heavy-Duty Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires



A64 HD A 70



A64 HD A 70 Capacities		
Concrete Fill	5.5 m ³	7.19 yd ³
Water Fill	5.5 m ³	7.19 yd ³

Vehicle Weight Unloaded: 15,000 kg (33,100 lb)

Vehicle Weight Loaded: 28,200 kg (62,200 lb)

Mercedes Benz OM906 Engine Package

Stage	Tier III
Design	6 Cylinders in line, water cooled
Max Power	150 kW (201 hp) @ 2200 rpm
Exhaust System	Catalytic exhaust conditioner and silencer
Aspiration	Turbocharged
Fuel Consumption	220 g/kW-hr (0.361 lb/hp-hr)

Cummins QSB6.7 Engine Package

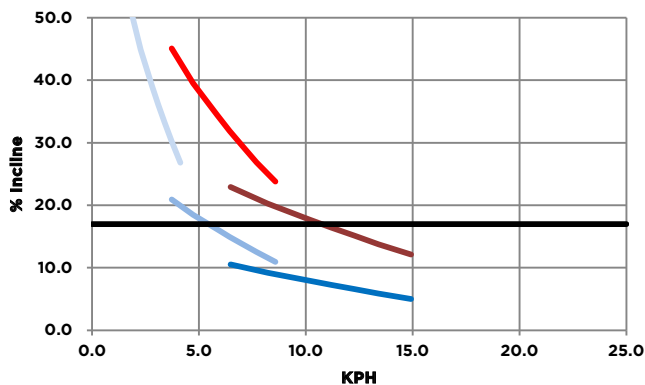
Stage	Tier III
Design	6 Cylinders in line, water cooled
Max Power	164 kW (220 hp) @ 2200 rpm
Exhaust System	Catalytic exhaust conditioner and silencer
Aspiration	Turbocharged
Fuel Consumption	232 g/kW-hr (0.381 lb/hp-hr)

Speed Chart with Estimated GVW: 15,000 kg (33,100 lb)

- 1st Gear
- 2nd Gear
- 3rd Gear
- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires

Speed Chart with Estimated GVW: 28,200 kg (62,200 lb)

- 1st Gear
- 2nd Gear
- 3rd Gear
- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires

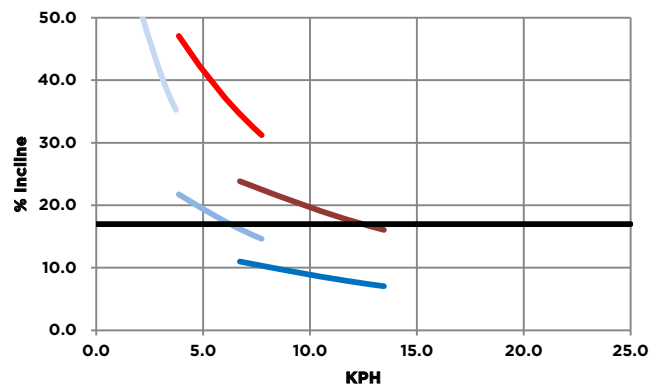


Speed Chart with Estimated GVW: 15,000 kg (33,100 lb)

- 1st Gear
- 2nd Gear
- 3rd Gear
- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires

Speed Chart with Estimated GVW: 28,200 kg (62,200 lb)

- 1st Gear
- 2nd Gear
- 3rd Gear
- Dana Clark 32000 Transmission
- Enhanced Capacity Carraro 28.60 Axles
- 14x24-28pr Mine-Duty tires





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**A64 PRODUCTION
SUPPORT EQUIPMENT**



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