Getman shotcrete sprayers are designed to quickly and efficiently perform all shotcrete operations required in underground mining, offering an unparalleled boom coverage area that enables extended spraying coverage in normal drifting situations. Optimal boom positioning minimizes wasted material, and improves coverage when shooting blind corners and bulkheads.

Getman’s SST Shotcrete can maintain optimal horizontal positioning when spraying tunnels ranging from 3.5 m by 3.5 m (11.5 ft by 11.5 ft) up to 10.3 m wide by 6.2 m high (34 ft by 20 ft), while covering 4.3 m (14 ft) of advance from a single setup. An available onboard air compressor enables fully contained spraying using only the diesel engine, while the high-lumen LED lighting allows for optimal visibility of the spraying area.

SST shotcrete sprayers protect worker safety through the ergonomically designed operator’s compartment that reduces operator fatigue during tramming. Work areas are fully illuminated ensuring proper visibility at all times.
Technical Specifications

Engine
- Tier III approved engine - 4-cylinder
  › Mercedes Benz OM904LA, 129 kW (173 hp) @ 2200 rpm
  › Cummins QSB4.5, 127 kW (170 hp) @ 2200 rpm
- Tier III approved engine - 6-cylinder
  › Mercedes Benz OM906LA, 150 kW (201 hp) @ 2200 rpm
  › Cummins QSB6.7L, 164 kW (220 hp) @ 2200 rpm
- Liquid-cooled, turbocharged
- 151 L (40 gal) fuel tank with self-closing cap

Exhaust System
- Catalytic exhaust conditioner and silencer

Transmission
- Dana Clark 32000 powershift transmission
- Three speeds forward and reverse
- 4-wheel drive

Axles
- Enhanced capacity Carraro 28.60 planetary drive axle package

Tires
- 12.00×20-28pr mine service tires

Brake System
- Fully hydraulic wet disc service brakes on each axle
- Spring applied, hydraulic pressure release wet disc secondary brake
- Automatic secondary brake application upon fire suppression activation, loss of brake accumulator pressure, loss of transmission pressure or loss of electrical power

Steering
- Electric joystick controlled articulated frame steering
- Heavy-duty, tapered roller bearing joint
- Two double-acting steer cylinders
- 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 pump
- Sensors and diagnostic test ports with quick couple fittings for each axle brake release pressure, hydraulic pumps, and forward/reverse
- 10-micron in-tank filter
- In-line high pressure filters on steering and brakes
- 250 L (66 gal) hydraulic reservoir

Operator Compartment
- Three-point contact for entry and exit
- ROPS/FOPS certified compartment (SAE J/ISO 3449-98, SAE J/ISO 3471, AS2294.2-97, and CSA B352.2-95)
  › Open canopy
  › Enclosed cabin with heater and air conditioner
- Forward-facing mechanical suspension operator seat
- Retractable lap seat belt
- Vibration dampened, rubber-mounted cockpit and floor joints

Instrumentation
- CAN-based engine/truck performance monitoring with on-screen gauges and diagnostics
  › Engine temperature
  › Engine oil pressure
  › Voltmeter
  › Hour meter
  › Tachometer
  › Transmission clutch pressure
  › Converter temperature
  › Brake accumulator pressure
  › Audio/visual alert for high engine temperature
  › Audio/visual alert for low engine oil pressure

Electrical System
- 24 V, 140 A alternator
- Lockable electrical master switch (lockout)
- Maintenance-free 12 V batteries
- LED lighting package: two 900 lm headlights, six 4500 lm front work lights, one 900 lm mid-section light, two 4500 lm rear work lights
- LED strobe light on canopy
- Back-up camera
- Point-to-point wiring system
- Self-extinguishing multi-conductor cable
- Fully sealed connectors, terminal strips and junction boxes

Other General Equipment
- Variable audio backup alarm (87-112 dBA)
- 2.3 kg (5 lb) fire extinguisher
- Wheel chocks
- Four nozzle Ansul fire suppression system tied to engine shutdown (LTA-101-30)

Optional Equipment
- Wiggins fill system
- Lincoln auto-lubrication package
- Ansul Checkfire automatic actuation fire suppression system with linear detection loop
Shotcrete Spraying System

Concrete Pump
- Reed A40HP shotcrete pump with max theoretical output of 31 m³/hr (40 yd³/hr)
- Cylinder bore/stroke: 152 mm × 762 mm (6 in × 127 in)
- Maximum aggregate size: 38 mm (1.5 in)
- Hopper capacity: 283 L (10 ft³)
- Outlet: 127 mm (5 in)
- Adjustable hopper height: 975 mm to 1468 mm (38 in to 58 in) height
- Hinged grate on hopper

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
- Peristaltic admixture pump with programmable range of 0-7.56 L/min (0-2 gpm) @ 8 bar (115 psi)

Controls
- Remote control for boom/nozzle positioning with Shotcrete pump output
  › Umbilical remote
  › Wireless remote
- Stow/Unfold boom controls in driver station
- Available boom repositioning during tramming
- Dosing adjustment located on carrier

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

Boom Coverage
- Upper Coverage Envelope (H × W × D): 6.2 m × 10.2 m × 3 m (16.4 ft × 26.2 ft × 10 ft)
- Lower Coverage Envelope (H × W × D): 2.9 m × 3.6 m × 3 m (9.8 ft × 12 ft × 10 ft)
- Maximum vertical spray reach: 11.2 m (36.7 ft)
- Maximum horizontal spray reach: 8.4 m (27.6 ft)
- Minimum boom unfold 3.7 m × 3.7 m (12.1 ft × 12.1 ft)
- Stowed boom height 2540 mm (100 in)

Form Oil Package
- 75.7 L (20 gal) pneumatic spray tank
- 23 m (75 ft) reel and wand assembly

High Pressure Wash System
- 30 m (100 ft) spring-return hose reel with mine water hook-up
- Mine water supply to pump hopper and hydraulically driven high-pressure pump
- 23 m (75 ft) reel and high-pressure wand
- Optional onboard 75.7 L (20 gal) water tank for high-pressure wash system

Compressed Air System
- 30 m (100 ft) spring-return hose reel with mine air hook-up
- Optional onboard PTO-driven 5.66 m³/min (7.41 yd³/min) mechanical air compressor (requires 6-cylinder engine)
Design Features and Layout

Admixture dosing system automatically recalibrates in response to programmed changes in concrete flow rate.

Boom mounted over chassis during tramming for protection and to reduce stresses.

Adjustable hopper height allows for optimal discharge angles on grade.

All filters and lubrication points accessible from ground level.

Fluid levels easily checked using ground-level sight gauges.

Built on the reliable Getman SST Chassis.
Dimensions and Maneuverability

<table>
<thead>
<tr>
<th>Feature</th>
<th>Measurement 1</th>
<th>Measurement 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine Length</td>
<td>10217 mm</td>
<td>402 in</td>
</tr>
<tr>
<td>Wheelbase Length</td>
<td>3569 mm</td>
<td>140 in</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>314 mm</td>
<td>12 in</td>
</tr>
<tr>
<td>Machine Height (canopy)</td>
<td>2660 mm</td>
<td>105 in</td>
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</tbody>
</table>
**Dimensions and Maneuverability**

<table>
<thead>
<tr>
<th>Description</th>
<th>Measurement</th>
<th>Unit</th>
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</thead>
<tbody>
<tr>
<td>Machine Width</td>
<td>2216 mm</td>
<td>87 in</td>
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<tr>
<td>Inner Turning Radius</td>
<td>3542 mm</td>
<td>151 in</td>
</tr>
<tr>
<td>Outer Turning Radius</td>
<td>6549 mm</td>
<td>258 in</td>
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</tbody>
</table>
Boom Unfolding Requirements

37°

3700 [12'-2'']

4344 [14'-3'']

5700 [12'-2'']
Maximum Coverage - Side View

Product Datasheet
Updated November 11, 2015
Maximum Coverage - Front View
Horizontal Drifting Coverage - Lower Envelope
Horizontal Drifting Coverage - Upper Envelope

6210
[20'-5"]

10280
[33'-9"]

2870
[9'-5"]

4370
[14'-4"]
## Engine and Performance

**Mercedes Benz OM904 Engine Package**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Mercedes</th>
</tr>
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<tbody>
<tr>
<td>Model</td>
<td>OM904</td>
</tr>
<tr>
<td>Stage</td>
<td>Tier III</td>
</tr>
<tr>
<td>Design</td>
<td>4 Cylinders in line, water cooled</td>
</tr>
<tr>
<td>Max Power</td>
<td>129 kW (173 hp) @ 2200 rpm</td>
</tr>
<tr>
<td>Exhaust System</td>
<td>Catalytic exhaust conditioner and silencer</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged</td>
</tr>
<tr>
<td>Fuel Consumption</td>
<td>220 g/kW-hr (0.361 lb/hp-hr)</td>
</tr>
</tbody>
</table>

**Cummins QSB4.5 Engine Package**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Cummins</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>QSB4.5</td>
</tr>
<tr>
<td>Stage</td>
<td>Tier III</td>
</tr>
<tr>
<td>Design</td>
<td>4 Cylinders in line, water cooled</td>
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<td>Catalytic exhaust conditioner and silencer</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged</td>
</tr>
<tr>
<td>Fuel Consumption</td>
<td>243 g/kW-hr (0.399 lb/hp-hr)</td>
</tr>
</tbody>
</table>

### Speed Chart with Estimated GVW: 14,515 kg (32,000 lb)

- 1st Gear
- 2nd Gear
- 3rd Gear

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

### Maximum Recommended Longitudinal Tramming Gradient

- 0%

### Maximum Recommended Transverse Tramming Gradient

- 5%
Engine and Performance

**Mercedes Benz OM906 Engine Package**
- **Manufacturer**: Mercedes
- **Model**: OM906
- **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**
- **Manufacturer**: Cummins
- **Model**: QSB6.7
- **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)
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, or visit our website at www.getman.com.

For parts or service support, email us at parts@getman.com or service@getman.com.

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