



## **MULTICRETE HYBRID WET<sup>®</sup> SHOTCRETE CARRIER**

*♦DeBeers, Snap Lake Mine, NWT*

**OUR EQUIPMENT, PRODUCTS, PEOPLE:  
SUPPORT *YOU* CAN COUNT ON!**

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# Multicrete Hybrid Wet<sup>®</sup> Shotcrete Carrier

*Aliva<sup>®</sup> 257 Shotcrete Machine, AL-302 Spray Arm on a Getman 64 Carrier*

## Multicrete Hybrid Wet<sup>®</sup> Shotcrete Application Carrier

This Shotcrete Carrier is based on "simplicity". Load & Haul Dry, Pre-Mixed material to the Shooting Site. Water is added to the Mixing Auger, just before the Aliva 257 Shotcrete Pump and it is sprayed "Wet" at a low slump for reduced Accelerator needs and High Strength & Adhesion. This unit can also spray "Pre-dampened" Dry Shotcrete!

### Specifications:

#### Getman 64 Carrier Chassis Chassis

Heavy Duty Type Articulating Frame Steering Four Wheel Drive  
**Engine**

Mercedes Benz OM904LA Diesel 129kW(173hp) @2200 rpm, Fuel/Water Separator, Donaldson dry, dual element air cleaner, Catalytic purifier with muffler, 24V, 100A alternator, 114 liter fuel capacity

#### **Axles & Tires**

John Deere YZ17337 Inboard planetary axles with wet disc brakes 10.00x20-16PR mine service tires.



*Figure 1 Aliva 302 Spray Boom (front) and Aliva 257 Wet/Dry Shotcrete Machine (rear) integrally assembled on Getman 64 Carrier.*



*Figure 2 Aliva 302 Spray Arm extended*



*Figure 3 Liquid Accelerator Storage & Pump*

#### **Transmission**

Clark/Dana 32000 3 spd Full Reversing Powershift

#### **Steering**

Orbital Controlled Articulating Steering, Heavy Duty Self Aligning bearings inside replaceable inserts, Two double-acting steering cylinders.

#### **Brakes**

Service, fully hydraulic wet disc brakes each axle, Secondary, spring applied, hydraulic released wet disc secondary and park brake, Automatic secondary brake application upon loss of power or pressure.



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## Specifications:

### Getman 64 Carrier (cont.)

#### Hydraulic System

Open center hydraulic circuits, Gear-type hydraulic pump, 151 liter hydraulic reservoir, with sight gauges, 100 mesh suction strainers, Return line, spin-on filters, 10 micron rating, Diagnostic test ports with quick couple parker fittings each axle service brake application pressure, hydraulic pumps

#### Also Equipped with..

Audio backup alarm, 5 lb. Fire Extinguisher, Four nozzle fire suppression system Ansul LTA-101-30, Wheel Chocks, Lincoln automatic lubrication.

#### Speed on Grade

21 kph .....5%

12 kph .....15%

8 hph .....20%

#### Steering Radius

Internal.....3,988 mm

External.....6,731 mm

#### Wheel Base

Length (axle to axle) 3,658 mm

Width .....2,083 mm



*Figure 4 Aliva 302 Spray Boom with 240/360 degree Nozzle Rotation*



*Figure 5 Shotcrete Mixing Auger.*



*Figure 6 Rear View Lights & Backup Camera*

#### Electrical & Instruments

Maintenance Free 12V Battery, Full instrumentation, engine/transmission, voltmeter, hour meter, Battery master disconnect switch, lockable, 50W halogen headlights, two front/two rear, two red taillights, Brake accumulator pressure gauges, low pressure warning light, 'park brake applied' warning light, Wiring fully sealed connectors, sealed and oil resistant covering, instrument associated switches mounted in electrical box.



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## Specifications:

### **Aliva 257 Shotcrete Machine**

The AL-257 is the universal machine for the application of dry- and wet shotcrete in the thin-stream method. The new and very compact design of the machine impresses through its dimensions, weight and performance. With just 750 kg and dimensions as little as a small dry shotcrete machine, the AL-257 fits on the back of the Huron 4 and is easy to operate. With its unbelievable output capacity range from 0.7– 9.6 m<sup>3</sup>/h (with 3 rotor sizes) the machine works on small concrete renovation work as efficient as on big slope protection or in mines. Less maintenance and wear cost makes it the ideal shotcrete machine for all applications.

### **Built in components**

The AL-257 is equipped with a fully automatic lubrication system for the rotor-discs. The rotor-speed is adjusted with a frequency converter and therefore, can be adjusted to every specific need on the job.

### **Sealing system**

The machine is equipped with rotors made of high tech aluminum and is operating with steel - on -steel wear and rotor plates.



*Figure 7 Mixing Auger Discharge to Aliva 257 hopper*



*Figure 8 Aliva 257 Shotcrete Machine.*



*Figure 9 Mixing Auger & Aliva 257 Hopper*

Experience has shown up to 10 times less wear on the steel plates, depending on material, output capacity, hose diameter and compressed air supply! This again leads to less down time and wear cost and therefore to a more economical spraying operation.



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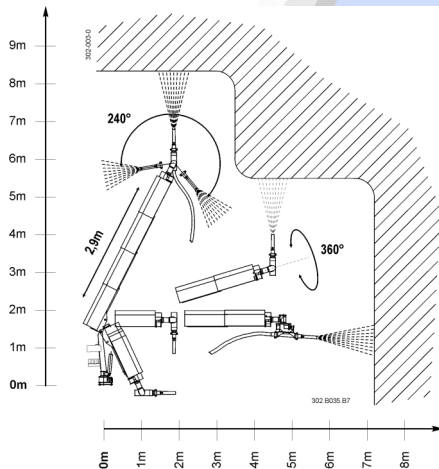
## Specifications:

### **Aliva 302 Spray Boom**

The telescope spraying arm Aliva 302 is used for the application of sprayed concrete in mines, small galleries and excavations.

With its simple and rigid construction, the Aliva 302 is very suitable for the mounting onto different types of carriers.

Transport Length.....2.45 m  
 Transport Width.....0.5 m  
 Transport Height..... 2.0 m  
 Weight of Arm approx. ...550 kg



*Figure 10 7 cu.yd Storage Hopper for Dry Pre-Mixed Product*



*Figure 11 Aliva 302 boom and Work Lights*



*Figure 12 Inside Cab of Getman 64 Carrier*

Reach, rotation and precision all contribute to remotely operated quality application of shotcrete material to all of those tough to get into places. Safe workers, minimal hazard, correct technique, less waste, more profitability. The Multicrete Hybrid Wet<sup>®</sup> Application Shotcrete Carrier is your answer.

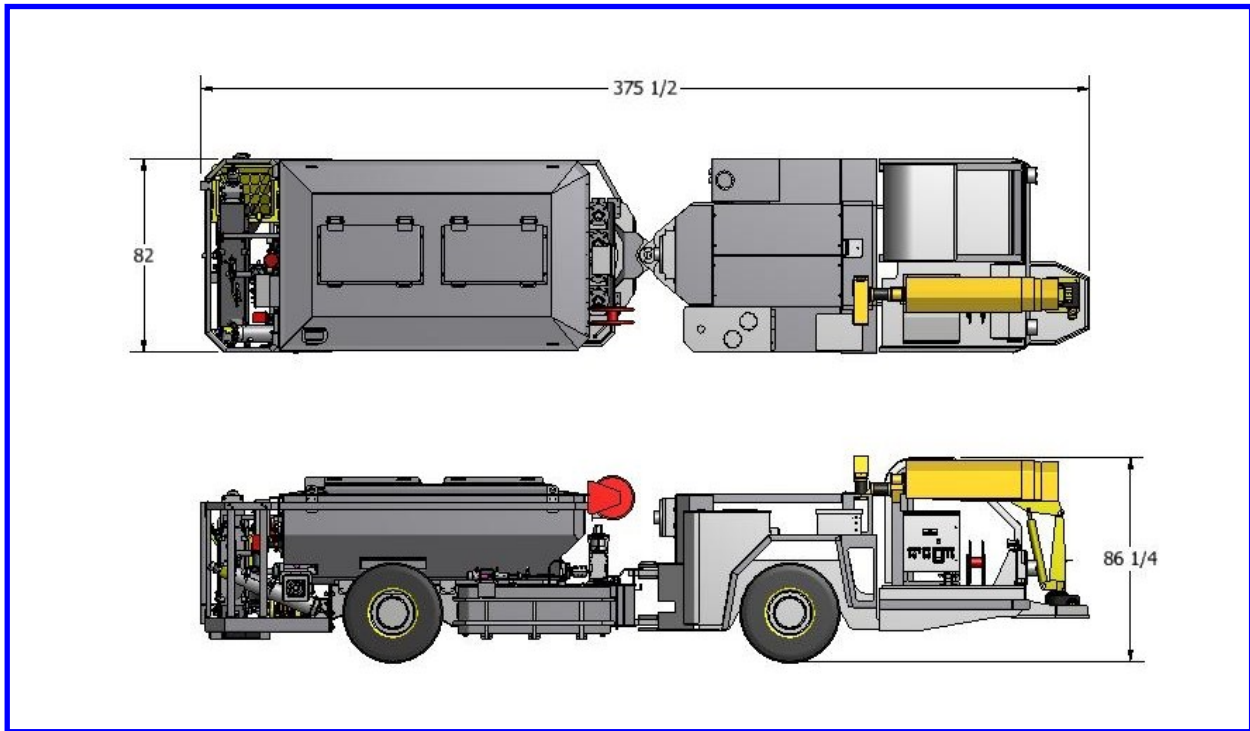
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*Figure 13 Dimensions of Multicrete Hybrid Wet<sup>®</sup> Shotcrete Carrier*



*Figure 14 Multicrete Hybrid Wet<sup>®</sup> Shotcrete Carrier-Ready to Ship*