



Huron 4 Shotcrete Application Carrier

Technical Data Sheet

Aliva Shotcrete Machine, AL-302 Spray Arm

Equipment Description

A shotcrete carrier which includes a state-of-the-art Aliva 257 wet and dry shotcrete machine on the rear, alongside an Aliva 302 wet mix shotcrete spraying arm on the front which includes, enhanced hydraulics, self contained liquid accelerator, storage and pumping system all attached via the Huron 4 trains mixer chassis. A very compact maneuverable tough unit designed for all needs

Specifications, Huron 3 Trans mixer Truck

Chassis

Monoblock, Heavy-duty type

Engine

Diesel CUMMINGS type QSB 4.5 (Tier 3-COM 3,) 4-cylinders, turbo intercooler

Liquid cooling, Power DIN 116kW

(155 HP) 20 2,200 RPM, designed to work a 4700 MASL

Axles

Monolithic with epicycloid reducer

Dynamic loading capacity per axle 8000kg

Steering type front axle with oscillating assembly. Fixed rear axle

Transmission

Hydrostatic type with automatic regulation

Axle pistons pump of variable flow applied directly to diesel engine. Hydraulic motor at axial pistons mounted on the reducer cap

Steering

Front hydraulic axle

Brakes

Internal discs oil bathed on front wheels

Hydraulic activate in two independent circuit

Parking brakes on transmission with hand lever control

Drum

Concrete Output Capacity	4m ³
Direct Unloading Height	1465mm
Unloading Height	1100mm

Hydraulic rotation of drum for loading-mixing and unloading is affected by electric speed regulation of RPM.

Water System

Hydraulic operated, self priming water pump.

The water is supplied form an external source, taken directly to the drum, to the tank or the washing hose. It can also be taken from the truck mixer tank to the drum or the washing hose. High pressure pump for cleaning purposes – Liter counter.

Max Slope

Fully loaded 30% (SAE Normative)

Speed

1 st	0-8km/hr (for working)
2 nd	0-20km/hr (for movement)

Steering

Internal	4,150mm
External	7,800mm

Electrical

12V battery 190 Ah, 650 A

Tires

10'00R20 16PR



Huron 4 Shotcrete Application Carrier

Technical Data Sheet

Aliva Shotcrete Machine, AL-302 Spray Arm

Aliva 257 Shotcrete Machine Specifications

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 750kg 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 0.7-9.6m³/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 costs make it the ideal shotcrete machine for all applications.

Built-in Components

The AL-257 is equipped with rotors 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. 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.

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 mounting onto different types of carriers.

Transport Length	2.45 m
Transport Width	0.5 m
Transport Height	2.0 m
Weight of Arm (Approximate)	550 kg

Reach, rotation and precision all contribute to remotely operated quality application of shotcrete material to all those tough to get into places. Safe workers, minimal hazards, correct technique, less waste, are all deeply divulged into the profitability of the Huron 4 Application Shotcrete Carrier.



Huron 4 Shotcrete Application Carrier

Technical Data Sheet

Aliva Shotcrete Machine, AL-302 Spray Arm

Huron 4 Shotcrete Application Carrier Overview



Aliva 302 Spray Boom Partially Extended



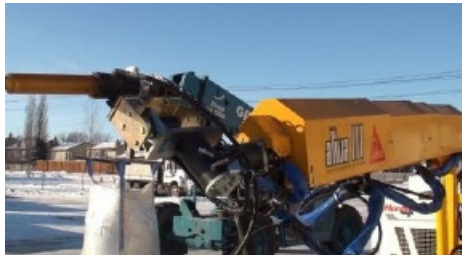
Drum discharge chute to Aliva 257 Hopper



Mixing Drum and Liquid Accelerator Storage



Aliva 302 boom retracted for driving



Aliva 302 Spray Boom with 240/360 Nozzle Rotation



Aliva 302 mounted in front of engine compartment