



Huron 4 Shotcrete Application Carrier

Technical Data Sheet

With Aliva Shotcrete Machine, AL-302 Spray Arm (Carrier)

Equipment Description

The Huron 4 Application Carrier consists of a transmixer chassis equipped with various amenities and modifications including:

- Aliva 257 rear shotcrete machine
- Aliva 302 wet/dry spraying arm
- Enhanced hydraulics
- Self contained liquid accelerator
- Storage and pumping system

Specifications

Huron 4 Transmixer Truck

Chassis	Monoblock, heavy-duty type
Engine	Diesel CUMMINGS Type QSB 4.5 (Tier III-COM III) 4 cylinders, turbo intercooler
Axles	Monolithic with epicycloids reducer Dynamic loading capacity per axle (8000 kg) Steering type front axle with oscillating assembly. Fixed rear axle
Transmission	Hydrostatic type with automatic regulation Axial piston pumps of variable flow applied directly to diesel engine. Hydraulic motor at axial pistons mounted on reducer cap
Steering	Hydraulic on front axle

Brakes	Internal discs oil bathed on front wheels Hydraulic activate in 2 independent circuits Parking brakes on transmission with lever control
Drum	4m ³ concrete output capacity 1465 mm direct unloading capacity 1100 mm unloading height 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 Water is supplied by an external source from the drum or washing hose. This process can also be taken from the truck mixer tank. High pressure pump for cleaning purposes. Supplied with a litre counter
Max Slope	Fully loaded: 30% (SAE Normative)
Speed	0 – 8 km/hour (for working) 0 – 20 km/hr (for movement)



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Steering Radius	4,150 mm Internal 7,800 mm External
Electrical	12 V Battery 180 Ah, 650 A
Tires	10'00R20 16PR

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 compact design of the machine is demonstrated through its impressive dimensions, weight and its overall 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 impressive 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 ideal 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, 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 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 reach places. Safe workers, minimal hazards, correct technique, less waste, are all deeply divulged into the profitability of the Huron 4 Application Shotcrete Carrier.



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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