

## HENCON TRANSVERS HIGH PROFILE BATCH MIXER



VEHICLE FOR THE PREPARATION  
OF CONCRETE

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# BATCH MIXING VEHICLE FOR CONCRETE



The Hencon TransVers High Profile Batch Mixer has been designed for the preparation of concrete mixtures that are used in Hencon Shotcreter machines.

It has an articulated frame, with a joint that enables frame articulation and oscillation. Easy access is provided to all components that frequently need to be serviced and maintained. On the front are the cabin, motor compartment, fuel tank and hydraulic oil tank. The following equipment is mounted on the rear: aggregate hopper, cement hopper, fibre hopper, water tanks, water pumps and mixing tube.

The vehicle can be safely used in underground tunnels with aggressive environments, significant water content, humidity of between 75 to 100%, high concentrations of conductive dust, and ambient temperatures of between -35°C to +35°C.

*Functional details and full specifications are available on request.*

## TECHNICAL SPECIFICATIONS



### ENGINE

Diesel engine Deutz TCD2013 L04 2V, water cooled with turbocharger

Max power output: 126kW

### HYDROSTATIC DRIVE SYSTEM

- Hydrostatic transmission.
- Vehicle is driven with hydraulic pumps mounted on the engine reductor. Hydraulic pumps drive hydraulic motors mounted on the drive axles.

### TRAVEL PUMPS

- 2 Drive pumps
- 1 Equipment pump

### BRAKE SYSTEM

- Park brake
- Service brake
- Hydrostatic braking allows slowing down the vehicle with the engine by releasing the accelerator pedal.
- Hydraulic retarder assists with driving downhill.

### STEERING

Hydraulic steering (Orbitrol)

### ELECTRICAL EQUIPMENT

Multi CAN-bus control system based on Hydac controllers.

Voltage: 24V

### AXLES

Model: Kessler D71  
2-drive

### FUNCTIONAL EQUIPMENT

- Aggregate hopper
- Cement hopper
- Fibre hopper
- Water tanks and pumps
- Mixing tube

## DIMENSIONS AND MANOEUVRABILITY

DIMENSIONS AND OPERATING PARAMETERS			
Length	10 200mm	Ground clearance	357mm
Width	2 000mm	Approach angle	16°
Height	2 400mm	Departure angle	14°
Wheel base	4 760mm	Turning radius outer, inner	7 000mm, 3 750mm
Fully loaded vehicle weight Empty vehicle weight	27 000kg 14 000kg	Gradient	15°
Max speed	20km/h	Fuel tank capacity	250L

### OPERATOR'S CABIN

- The vehicle has a closed, three-seat cabin with tempered glass windows on all sides allowing good visibility, and integrated ROPS/FOPS elements.
- Front window protected by metal bars.
- The driver's seat is adjustable, with suspension and a retractable seat belt.
- Passenger seats are adjustable, with suspension and retractable seat belts.
- The cabin is fitted with an interior light, and heater with EU7 air filter on the intake.
- Window wipers with window washer on front window.
- Controls mounted in cabin include: Adjustable steering column with steering wheel; drive pedal; service brake pedal; drive direction switch with a horn button; turn signal switch; ignition switch; emergency stop button; keypad for various vehicle functions with LED lighting; digital display; heater speed switch; fire suppression system control panel.
- Digital display.
- Engine start button.



## FUNCTIONAL EQUIPMENT

- Volumetric system to mix aggregate, cement, fibre and water to prepare concrete mixture for Shotcrete vehicles.
- Cable remote control unit.
- Digital display next to the mixing tube.



### AGGREGATE HOPPER

- Capacity – 4.7m<sup>3</sup>;
- Shell of the hopper made of Hardox 450;
- Hydraulic knockers, level and humidity sensors;
- Discharge auger with blades made of Hardox 450.

### CEMENT HOPPER

- Capacity – 2.3m<sup>3</sup>;
- Hydraulic knocker and level sensors;
- Hydraulically driven cover;
- Discharge auger with blades made of Hardox 450;
- Fluidisation bed for levelling and discharge assist; and
- Fluidisation bed compressor with filters on the intake.

### FIBRE HOPPER

- Capacity – 0.3m<sup>3</sup>;
- Fibre mixer;
- Fibre shaker at the bottom of the hopper.

### WATER TANKS AND PUMPS

- 2 water tanks;
- Capacity – 500+800L;
- Low water level switches;
- High pressure pump to supply water to the mixture;
- High pressure pump for cleaning with a nozzle and hose reel.

### MIXING TUBE

- 2 tubes with augers inside to mix and discharge concrete mixture.
- Rubber hatches for cleaning.
- Tilt cylinders and slew drive to adjust discharge position.

*Hencon follows a continuous improvement policy and can make changes to the vehicle design – without impairing its performance – with no prior notice.*

## Hencon Mining BV

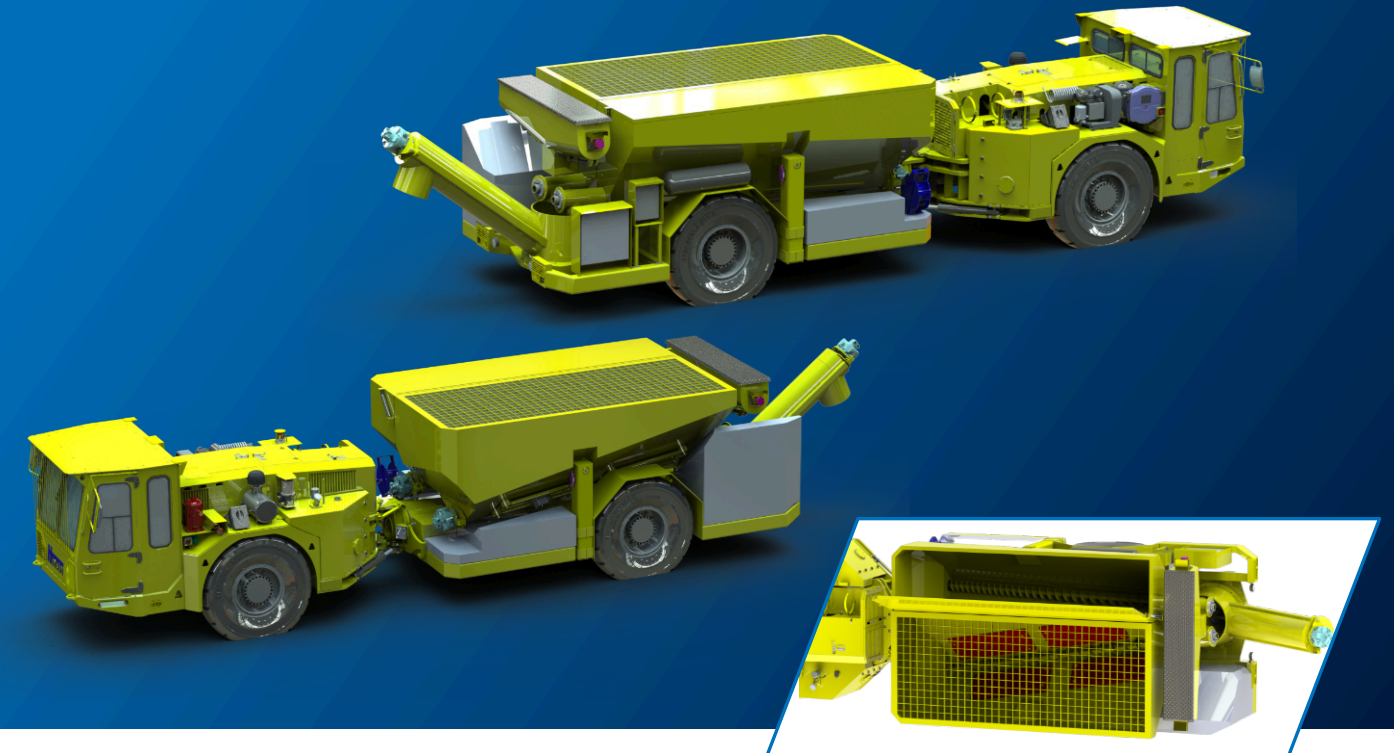
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## APPENDIX



## ALTECRETER HIGH PROFILE BATCH MIXER GEN 2

In line with Hencon's continuous improvement philosophy, manufacturing of the second-generation Hencon Altecreter High Profile Batch Mixer is now underway.

Applying what we've learnt during the design, manufacturing and most predominant applications of the Hencon Altecreter High Profile Batch Mixer, its second-generation counterpart offers the following features:

- A bigger machine with an increased total output capacity of 6m<sup>3</sup> concrete (previously 5m<sup>3</sup>)
- Improved clearance
- Increased power output
- A new vibration system for the aggregate hopper
- New design for the discharge auger with no-tilt but robust single auger structure featuring a larger mixing basket

- Advantages of a heightened focus on the discharge tube design:
  - Simplified cleaning process with improved access and fewer cleaning actions
  - Simplified fibre discharge unit
  - Powerful lifting outriggers to control discharge height or compensate for uneven terrain

