

HENCON HIGH PROFILE SHOTCRETER



WET CONCRETE SPRAYING VEHICLE

www.henconmining.com



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

- Drive pumps
- 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

1. Shotcrete boom
2. Concrete pump
3. Accelerator system
4. Compressor
5. Water hose reel
6. Electrohydraulic power pack
7. Cable reel
8. Form oil system
9. High pressure washer

DIMENSIONS AND MANOEUVRABILITY

DIMENSIONS AND OPERATING PARAMETERS			
Length	11 914mm	Ground clearance	329mm
Width	2 000mm	Approach angle	14°
Height	2 400mm	Departure angle	13°
Wheel base	4 011mm	Turning radius, outer inner radius	6 381mm 3 138mm
Full weight	20 000kg	Gradient	15°
Max speed	20km/h	Fuel tank capacity	240L

OPERATOR'S CABIN

- The vehicle has a closed, one-seat cabin with tempered glass windows on all sides allowing good visibility.
- The driver's seat is adjustable, with suspension and a retractable lap safety belt.
- The cabin is fitted with an interior light, and heater with EU7 air filter on the intake.
- Standard features include: Window and lights protection, left or right hand controls, washer, wiper and ROPS/FOPS certification.
- 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.

The Hencon High Profile Shotcreter has been designed to spray wet concrete mixture onto the walls of underground tunnels for reinforcement.

It features an articulated frame, with a joint that enables frame articulation and oscillation. Easy access is provided to all components that need to be serviced and maintained. On the front are the cabin, motor compartment, fuel tank, hydraulic oil tank, hydraulic outriggers and Shotcrete boom, while the rear has the following equipment mounted: concrete pump, air compressor, high pressure washer, electrohydraulic power pack, form oil system, accelerator pump with the tank and a cable reel.

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.



HENCON
SERVING PROGRESS

Functional equipment can be driven either with the engine of the vehicle or with the electrical power pack.

- Remote control unit cable length: 10m

Boom rotation angle	:	270°
Boom lifting angle	:	from -20° to +75°
Boom folding angle	:	from -60° to +162°
Extension	:	2 200mm
Nozzle rotation angle	:	420°
Nozzle lifting angle	:	105°

Pumping capacity	:	20m ³ /h
Pumping pressure	:	60 bar

Dozing rate	:	700L/h
Tank capacity	:	500L

Flow	:	10m ³ /h
Pressure	:	7 bar

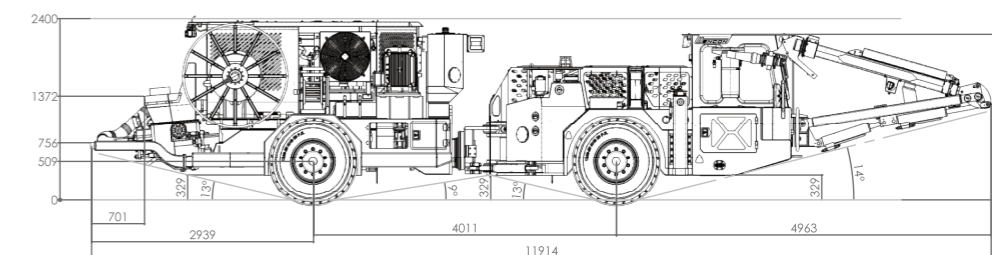
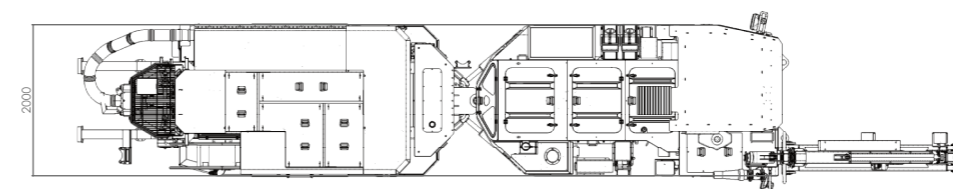
Hose length	:	30m
Hose size	:	3/4"

Power : 55kW

Cable length : 100m

Capacity	:	30L
Hose length	:	20m
Pressure	:	7 bar

Flow	:	30L/min
Pressure	:	180 bar



WATER HOSE REEL

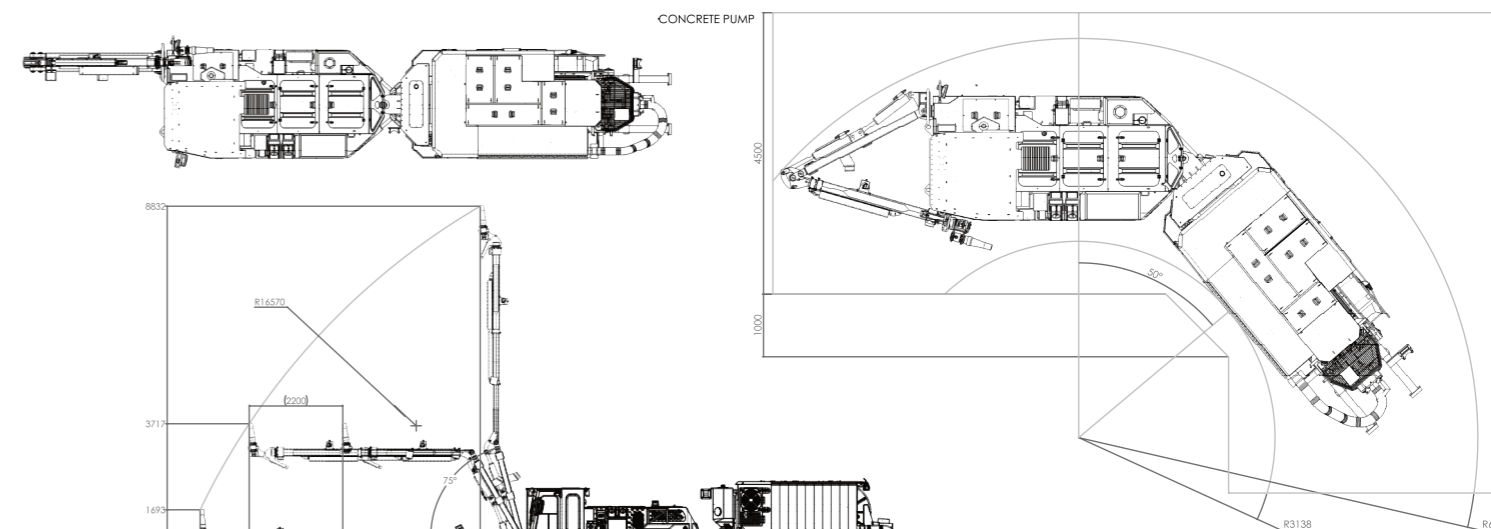
COMPRESSOR

HYDRUALIC PUMP SET WITH
400L HYDRAULIC TANK

SPRAY BOOM WITH AUTO LANCE

CABLE REEL - 100m CABLE
APPLICABLE FOR 400V
HYDRAULIC DRIVEN

BUMP STOPS FOR PUMP PROTECTION



CONCRETE PUMP

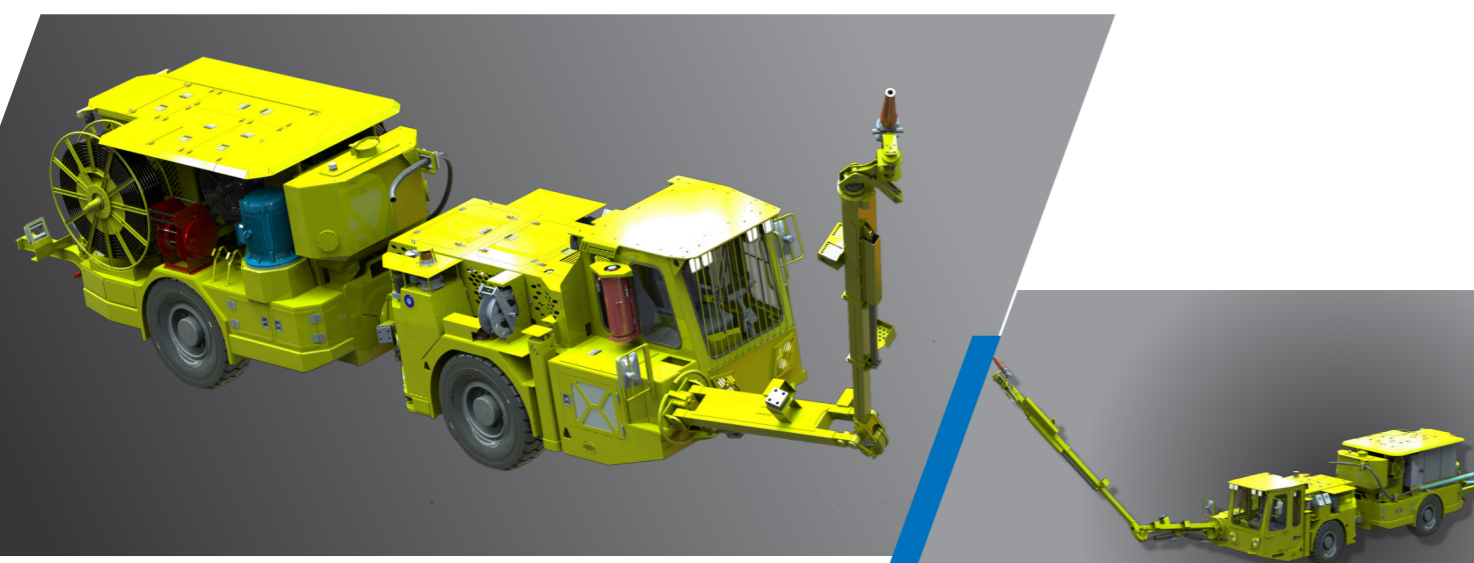
ACCELERANT TANK - 500L

ELECTRICAL ENCLOSURES

WATER TANK - 250L

9.8T AXLE LOAD

5.9T AXLE LOAD



 Marketing project management and services delivered by Valmark
valdy@valmark.co.za

info@henconmining.com | www.henconmining.com

Unit A2 1510 Zeiss Road Laserpark
Honeydew Johannesburg
South Africa, 2170

www.henconmining.com