



Original may vary from picture

## Main feature of the machine:

- Compact carrier vehicle with platform and crane for use in underground mining

## Operating conditions:

- Operating temperature: -20°C \*up to +40°C
  - Permissible longitudinal gradient: max. 35%
  - Operating altitude above sea level: < 1.500 m
- \* note cold start limit temperature of the diesel engine

## Chassis:

- Divided chassis with articulated-oscillating joint
  - Rigid mounted rear axle and front axle
  - Angle of oscillation: ± 10°
  - Operating weight: 10.200 kg\*
  - Payload: 16.700 kg
  - Front axle load, loaded: 6.700 kg
  - Rear axle load, loaded: 10.000 kg
- \* depending on selected options

## Constructions:

- Platform
  - o Loading platform with crane mounted on a stable intermediate frame
  - o Platform floor made of sheet steel equipped with lashing rings, straps
  - o Steel side walls front fixed, laterally and rear foldable.
  - o 4 attachment points on the platform
- Crane
  - o Hydraulically driven by the engine
  - o Operation control permanently installed on the vehicle
  - o And with radio remote control
  - o Type: HIAB HIDUO 038-4
  - o Payload at boom width 1,7 m: 2.040 kg
  - o Payload at boom width 2,7 m: 1.240 kg
  - o Payload at boom width 3,8 m: 860 kg
  - o Payload at boom width 4,9 m: 650 kg
  - o Payload at boom width 6,0 m: 530 kg
- Supports
  - o Supports hydraulically extendable with safety mechanism against hose rupture to improve stability in case of loading operation

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**Diesel engine:**

- Manufacturer: DEUTZ
- Type: TCD 4.1 L4
- Exhaust stage: EU Stage 4 / EPA Tier 4f
- Power: 105 kW at 2.300 rpm
- Generator: 28 V, 100 A
- Starter: 4.0 kW
- Cold start limit temperature: - 15°C
- Fuel prefilter and fuel fine filter with water separator
- Automatic shut off in case of exceeding engine specific parameters
- Information display about engine characteristics

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**Exhaust system:**

- DOC, DPF and SCR

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**Intake system:**

- Dry air filter with pre-filter

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**Fuel system:**

- Fuel tank capacity: 125 l
- Electric level indicator

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**Drive line:**

- Hydrodynamic drive, "full power shift" gearbox with four forward and reverse gears
- Automatic transmission control APC
- Manufacturer: DANA
- Type: 24300
- Single-stage torque converter
- Reversible under load
- All wheel drive
- Driving:
  - o 1<sup>st</sup> gear: 5 km/h
  - o 2<sup>nd</sup> gear: 10 km/h
  - o 3<sup>rd</sup> gear: 25 km/h
- Tow-capacity / Gradeability (loaded):
  - o 1<sup>st</sup> gear: 130 kN / 97 %
  - o 2<sup>nd</sup> gear: 60 kN / 34 %
  - o 3<sup>rd</sup> gear: 26 kN / 14 %

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**Axles:**

- Manufacture: DANA
- Type: 113
- Differential: open

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**Service brake:**

- Service brake: hydraulic spring-applied brake system
  - Located in the axle housing oil-immersed multiple disc brakes
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**Parking brake:**

- Spring-applied, hydraulically released parking brake
  - SAHR – brake
  - Hand pump for brake release in case of system failure
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**Auxiliary brake:**

- The parking break acts simultaneously as an auxiliary brake
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**Tires:**

- Single tired, air filled: 12.00-20
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**Hydraulic system:**

- Tank capacity: 130 l
  - Inspection glasses for Min/Max indication
  - Temperature sensor
  - Electric level indicator, control of minimum level
  - All possible fittings are DIN type
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**Steering:**

- Hydraulic-articulated steering with two double-acting hydraulic cylinder
  - Steering wheel
  - Emergency steering
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**Electric system:**

- Operating voltage: 24 V
  - Battery: 2 x 12 V, 155 Ah
  - Lockable main switch
  - Emergency stop buttons: 1 – in cabin, 4 - outside on the vehicle
  - Reversing signal
  - Security system
- In case the drive door is opened:
- o switching the traction drive off
  - o Activation of the parking brake
  - o Deactivation of the steering
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**Lighting:**

- All lights in LED
  - 2 main head lights with low and high beam, parking light and direction indicator
  - 2 working lights at the rear the cab
  - 2 tail lights with rear light, braking light, reversing light and direction indicatorc
  - 2 working tail lights at the rear
  - Cabin light
  - 1 strobe light yellow
  - 1 working lights on the crane
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**Driver's compartment:**

- Closed drivers compartment
  - o With ventilation and Heating
  - o ROPS/FOPS proofed
  - o Entry from both sides of the cab secured by doors with sliding windows
  - o Windscreen (double glazing)
  - o Wipers and washing plant for the windshield
  - o Blower with nozzles for Windscreen
  - o Two reversing mirrors
  - o All controls are installed in the distribution box
  - o All switches and lever are located within the reach of the operator
- Driver's seat:
  - o Air suspension seats
  - o With 2 point lap belt
  - o Synthetic leather cover
  - o Adjustment of back part and seating, height
- Second co-driver's seat

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**Finish:**

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|---------------------------|----------|
| - Cabin / driver's stand: | RAL 7016 |
| - Chassis:                | RAL 1007 |
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**Accessories and equipment (included):**

- Articulation joint lock
  - 1 hand-held fire extinguisher type Total PK 10 / BuT 10
  - 2 chocks
  - 1 Tool kit with bag
  - 1 Safety helmet and ear protection
  - 2 triangular safety reflector
  - 1 first-aid kit
  - 1 HRD fire extinguishing system with automatic release, brand Protec Fire
  - Rear view camera system
  - Automatic central lubrication system
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**Documentation:**

- 2 operating instructions in national language in printed form, 1 in the document box on the vehicle
  - Spare part list in electronic form
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