

WHEELCARRIER for Mining trucks

Technical Specifications

Drive unit

Load sensing open circuit hydraulic system with an electrical motor running the hydraulic pump. The travelling motion is achieved by using four Mecanum wheels with individual hydraulic motors. The speed and direction of the wheels are controlled by proportional hydraulic valves. The lifting forks and grip arms are operated by hydraulic cylinders. All valves are operated from the remote control box.

Hydraulic Drive Source:

Main Voltage 400 V
Electric motor 15 kW

Max speeds:

Forward-reverse approx. 7 m/min
Sideways approx. 5 m/min
Weight approx. 6,3 -7,3 tons depending on additional equipment

Control system

The control system consists of a PLC-based ECU unit controlled by a handheld remote transmitter, which has either cable connection or radio connection.

A cabinet is housing the power supply, remote receiver, PLC ECU (Siemens S7), emergency stop relay and softstarter for the electric motor.

The remote transmitter (Measures approx.. 230x155x135 mm) is equipped with harness and is carried by the operator.

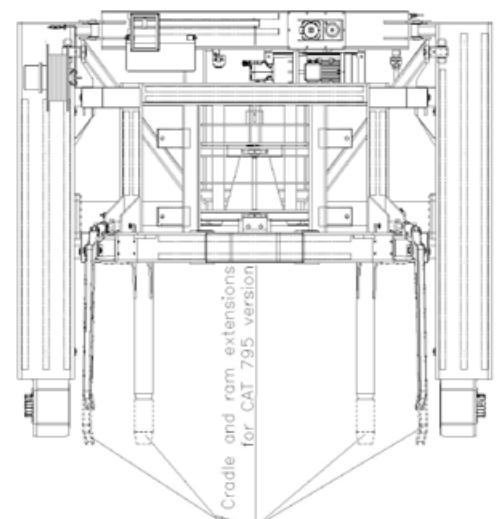
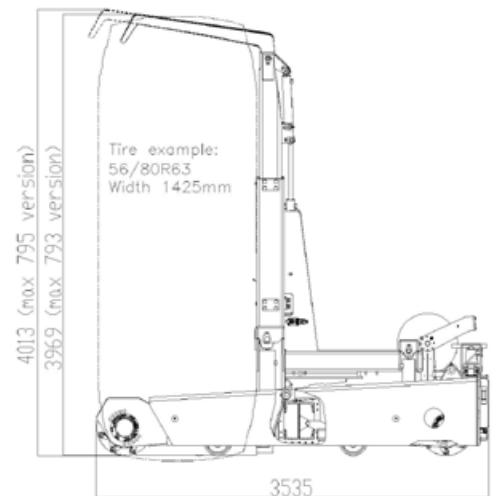
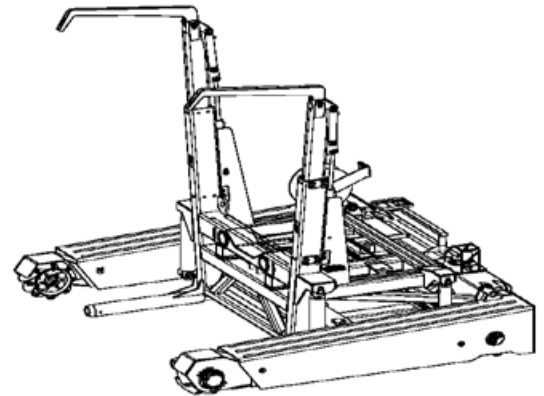
The remote transmitter is equipped with an omnidirectional joystick with s.c. dead-mans-handle for wheel drive and table lift, levers for maneuvering the gripping arms, switches for starting the hydraulic pump, emergency stop and choosing of high/low speed.

PLC control voltage 2 4 V DC
Signal for the prop. valves 5V +/- 2.5 V

Chassis with fixings

The chassis consists of two longitude side members connected to each other by two crossmembers. The side members are of a welded construction, and includes housing fixings for the wheels bogie system, fixings for the hydraulic cylinders (for the lifting table) and fixings for the lifting tables pivot points. The rear crossmember also incorporates the hydraulic tank and the electrical cabinet

JAMIA
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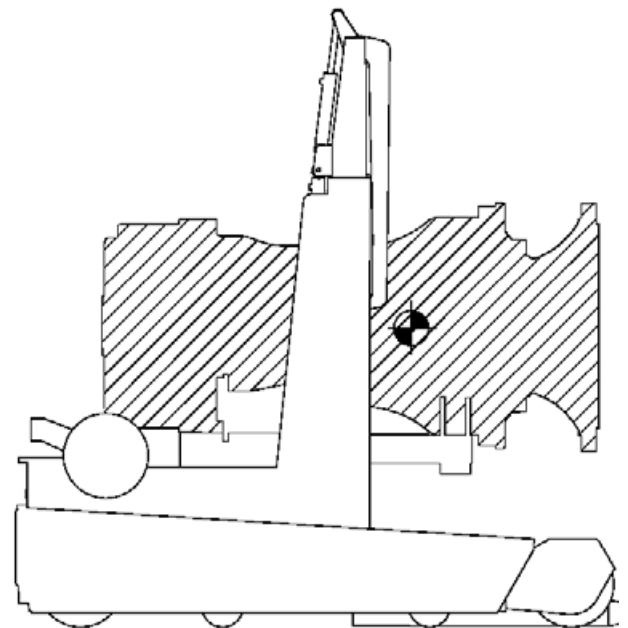
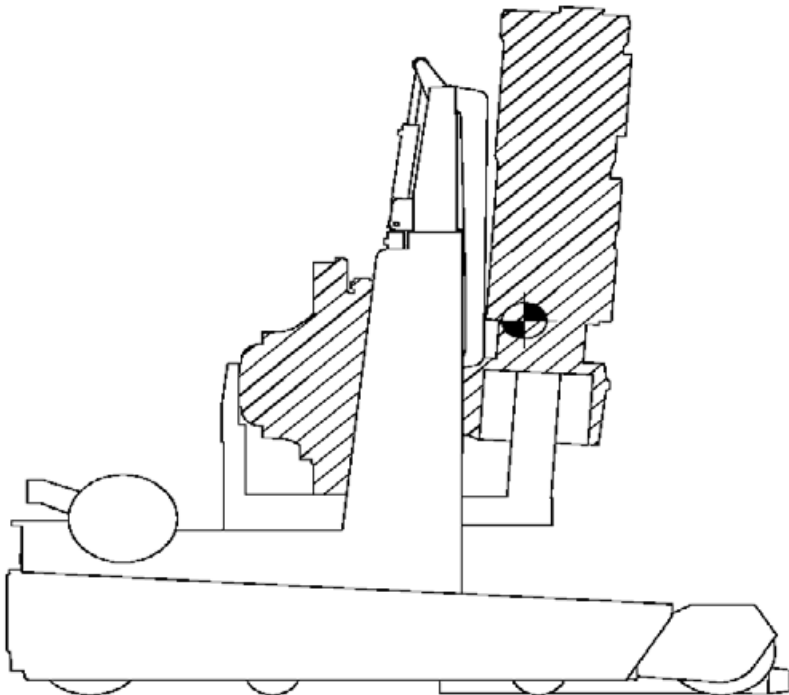
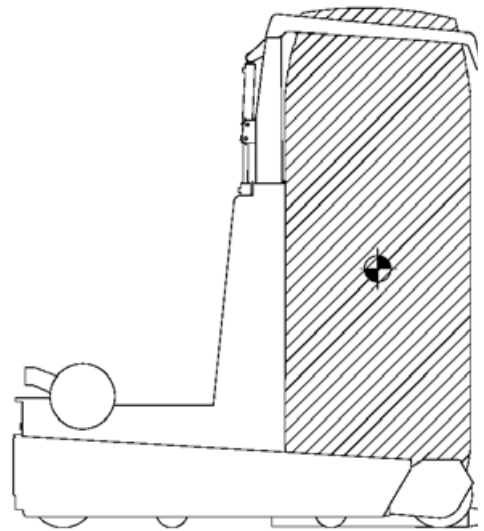
Lift/tilt and gripping system (Lifting table)

The lifting table consists of a welded frame which is suspended on four hydraulic cylinders and guided by pivot points with connecting rods. The frame also incorporates fixed lifting forks and uprights for the vertical telescopic gripping arms.

The gripping arms are actuated via hydraulic cylinders and guided in the uprights by slide surfaces.

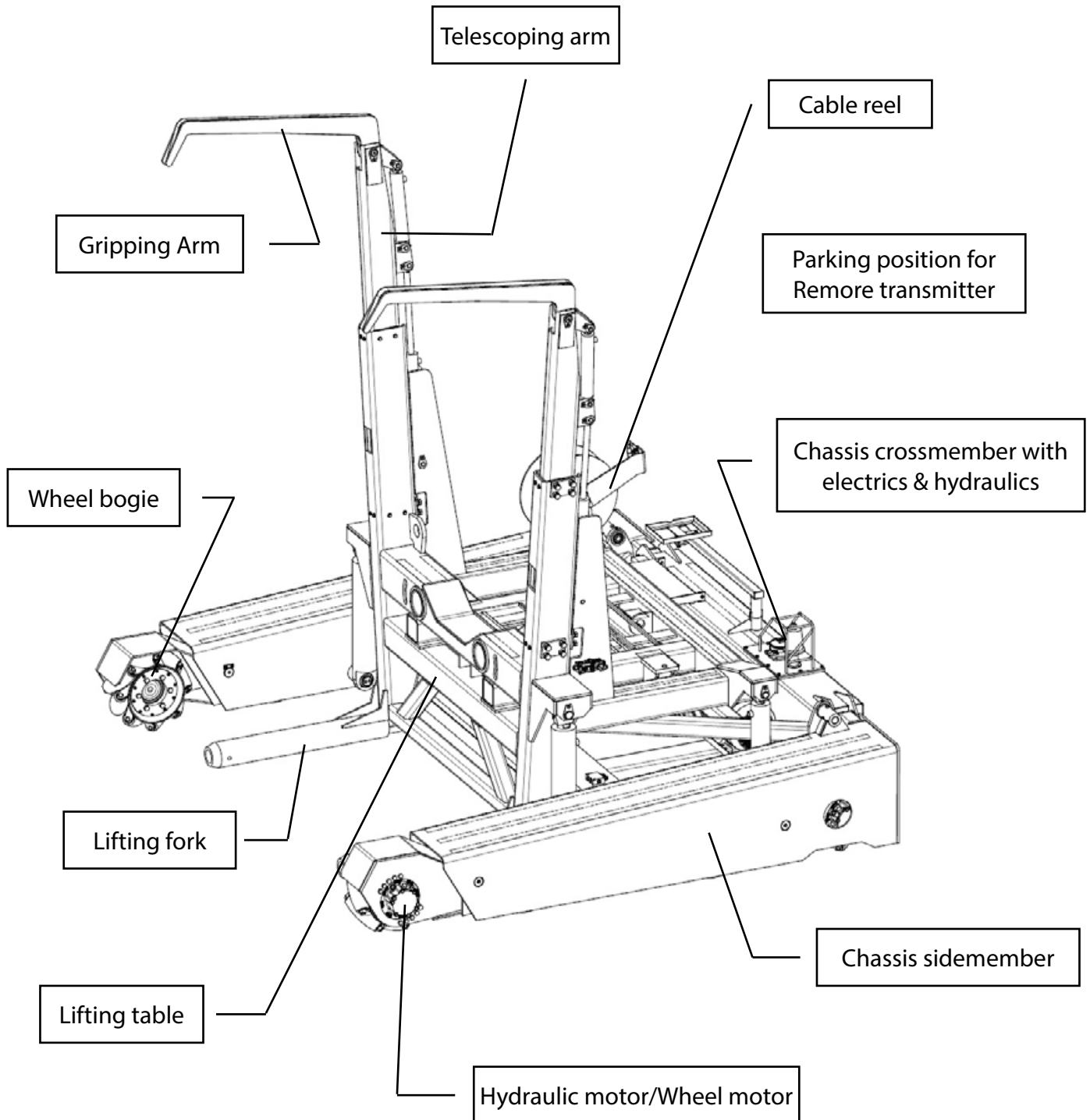
Extra attachments (Tools/Fixtures)

Attachments for mounting/demounting the truck's front strut assemblies and final drives can be provided. These are mounted on the lifting table.



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The Machine parts



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