

TECHNICAL DATA OF MAUS 6

DIMENSIONS DURING ROAD TRAVEL

LENGTH

14.97 m

WIDTH

3.00 m

HEIGHT

4.00 m

UNLADEN WEIGHT

with full tank:

from 30,400 to 31,600 kg depending on equipment

permitted total weight: 32,000 kg, 4-axle

DIESEL ENGINE

ENGINE

Mercedes Benz OM 936 LA 6-cylinder inline engine with AdBlue, SCR-Cat and particle filter

EXHAUST GAS CATEGORY

EU V with 1,450 Nm max. torque at 1,200 rpm

USA Tier 4 Final with 1,400 Nm max. torque at 1,200 rpm

DISPLACEMENT

7.7 litres 260 kW (354 hp)

2-stage turbo charging

FUEL CAPACITY

diesel: 1,225 litre

AdBlue: 95 litre

PROPERTIES

fully electronic engine control unit with fuel consumption evaluation in the R-Touch display

automatically reversing hydrostatic fan drive controlled depending on ambient temperature

1 flat-belt drive with automatic belt tensioner

wear-free constant throttle brake prevents the diesel engine from overspeeding

automatic engine shut-off if operating states could potentially cause damage

engine diagnostic system integrated in the R-Touch display

electric pump for automatic venting of the fuel system

TRACTION DRIVE

DRIVING SPEED

driving speed of 32 km/h

optionally 40 km/h with 2 traction motors

BRAKE

front axle with drum brake 500x180 duplex

rear axle with drum brake 500x120 simplex

4 spring-loaded brake cylinders for service and parking brake

PROPERTIES

stepless hydrostatic OMSI transmission (Bosch-Rexroth) from 4-gear OMSI transmission to 2 OMSI planetary steering axles

the drive pump can transmit the full power of the diesel engine

2 separately actuated differential locks with automatic function

automatic all-wheel switching

cruise control

speed-reduced driving in automotive driving mode
the load feed is controlled by very fine actuation of super
crawling speed

STEERING

front axle steering
rear axle steering
all-wheel steering
the main steering switch activates automatic mid-positioning
of the rear axle

TURNING RADIUS

9.90 m inner diameter

CABIN

HEIGHT ADJUSTMENT

height-adjustable to 5.1 m, sound-insulated panoramic cabin
with all-round vision through tinted windows and low horizon

DRIVER'S POSITION

air conditioning with underfloor and park heating, air-
cushioned rotating ROPA Evolution seat from GRAMMER with
seat heating, active ventilation and rotation brake
cup holder on the seat
AM/FM/CD/USB/Bluetooth/DAB+ Radio with external
microphone for hands-free communication
console for telephone
sun blinds on all windows
2 LED interior lights
foldable, heated and electrically adjustable exterior mirrors
foldable additional seat

STORAGE SPACE

rear cab wall with pull-outs for extensive storage space with
cooling box and an additional shelf

TERMINALS & OPERATION

R-Concept control panel at the rotating seat with two 12.1 inch R-Touch displays with additional R-Select und R-Direct operating system

2 multifunction joysticks with integrated proportional mini-joysticks

clear display of the beet flow with load factor of the individual drives on the R-Touch display

diagnostic system integrated in the R-Touch display

WINDOW WIPERS

7 window wipers on windscreen, doors and side windows

all windscreen wipers with synchronous operation

interval control and washing system

CAMERA

video system with digital cameras and 12.1 inch R-Touch display

LIGHTING

EQUIPMENT

Hella C140 LED main headlights at the front, 2 pcs.

Hella LED Oval 90 LED working headlights (1,700 lumen each) on the cabin roof, 11 pcs.

Nordic Lights Scorpius GO 420 LED working floodlights (1,800 lumen each) on the machine, 13 pcs.

LED rotating beacons Hella RotaLED Compact

OPERATING DRIVES AND HYDRAULIC SYSTEM

PUMP DISTRIBUTOR GEARS

OMSI pump distributor gears

pressure circulating lubrication

with gear oil cooler

gear ratios adjusted for reduced engine speed during loading from 1,150 rpm

automotive mode for diesel engine speed control during loading

HYDRAULIC SYSTEM

powershift multiple disc clutch to switch 6 hydraulic pumps of the operating drives -> thus, easier start of diesel engine even at very low outside temperatures

- 4 axial-piston pumps (Bosch-Rexroth) for continuous and separate rotating speed adjustment and reversing of rollers drives (pickup, out and in flow, additional cleaning)
- 2 axial-piston pumps (Bosch-Rexroth) for continuous drive of infeed and truck conveyors
- 1 load-sensing axial-piston pump (Bosch-Rexroth) to feed all hydraulic cylinders; all the movements are performed at the same time by LVS directional valves with flow dividing principle
- 1 axial-piston pump (Bosch-Rexroth) for reversible fan drive (hydraulic oil, water, charge air cooler)
- hydraulic motors from Danfoss

PICKUP SYSTEM

PICKUP WIDTH

maximum 10.2 m

ROPA ROLLER PICKUP

18 rollers

split into 3 separately driven units (each drive has a continuous rpm control and automatic reversing for all rollers (patented pickup system))

1. PICKUP

2 carbide tipped finger rollers operate up to a depth of 7 cm

2 hard-coated cleaner rollers

finger rollers: The highest service life due to integrated tapered roller bearing and slide ring sealing.

cleaning rollers: 8-corner disks consisting of forged half-shells.

2. OUTWARD FLOW

6 hard-coated conveyor rollers transport outward, divide the beet flow

integrated, adjustable tapered roller bearing guarantees lifelong operation of the roller without replacement of bearing.

3. INWARD FLOW

8 counter-rotating hard-coated pinch rollers guide inward ▷ doubled cleaning path;

All pinch rollers made of seamless cold-drawn, extremely rigid special pipe, Ø 138.5 mm, 8 mm wall strength

CENTRAL MARK

central mark with proven, zero-backlash drive

rotating speed adjusted automatically depending on the conveyor rollers

slow-running for low wear of divided central mark hood

safety valve to prevent shearing of safety chains if not attached

RESIDUAL BEET PICKUP

telescoping and proportionally controlled residual beet pickup

telescopic outer tube 180x180x5 mm

CAMERA

digital camera and R-Touch display for pickup depth monitoring

FROST BREAKER

pickup centre and side sections

CLEANING

CLEANING AND LOADING CAPACITY

up to more than 560 tons pro loading hour

TOTAL CLEANING AREA

approx. 35 m²

MAXIMUM CLEANING PATH

approx. 31.70 m

INFEEED CONVEYOR

80 cm wide

50 mm pitch with specially moulded PU fingers and soil deflectors

double profile belts

with rotational speed monitoring

quick motion switch (doubles the belt speed) for sieve conveyor self-cleaning in case of heavily sticky soil

15 mm wear-resistant side walls of PU plates

open frame construction (Y-frame) so that soil from infeed conveyor ejection does not remain on the main frame

RECLEANING

standard:

sieve conveyor, 90 cm wide, 40 mm pitch

optional:

- pinch roller cleaning with 8 counter-rotating rollers, 1,150 mm inner width, 1,300 outer width, rollers are constructively identical to pinch rollers of pickup;

- stone remover, combination of sieve conveyor followed by roller cleaner (10 PU cleaning rollers + 2 stone remover rollers), variable speed adjustment for cleaning rollers, variable adjustment of speed and direction of rotation for stone remover rollers.

TRUCK CONVEYOR

OVERLOADING HEIGHT

up to 6.0 m

OVERLOADING WIDTH

up to 15.0 m

PROPERTIES

80 cm wide

40 mm pitch

with speed monitoring and quick motion switch

15 mm wear-resistant side walls of PU plates can be turned and replaced

backstop

COUNTERWEIGHT ARM

LENGTH

9.02 m

PROPERTIES

6 m to articulation point

bottom plate in fuel tank of 15 mm steel

ELECTRICAL SYSTEM

EQUIPMENT

24 volt

alternator with 150 A

electronic main battery switch with automatic shut-off after ignition OFF for 5 days

OUTLETS

in the seat console:

12 V power socket 1 pc.

24 V outlet 1 pc.

USB double socket 5V / 3.6A (USB-A and USB-C) 1 pc.

in the roof console:

USB double socket 5V / 3.6A (USB-A and USB-B) 2 pcs.

in the engine compartment and at the rear:

each has a socket of 24 V

SAFETY

durable, waterproof, anticorrosion structure of the on-board electrical system

warnings are displayed as icon with text in the applicable language

wiring harness mostly wrapped with protective covering

PROPERTIES

diagnostic system for all sensors and actuators integrated in both R-Touch displays

software updates can be uploaded via standard USB port

single-lead sealed plugs (AMP, German) used exclusively

central electrical system wired with WAGO spring-clamp terminals (vibration-proof)

3 identical Hydac-TTC controllers (interchangeability if pin is not assigned)

ROAD TRAVEL

SWITCH TO OPERATING POSITION

with a single operating component you can switch automatically from road drive mode into operating mode in a good minute

TYRES

FRONT AND REAR AXLES

standard:

Michelin 710/75 R34 MegaXBib2 (outer width: 3.00 m)

optional:

Michelin IF 800/70 R32 CerexBib2 (outer width: 3.26 m)

LIFT AXLE

two hydraulically sprung additional axles with 235/75 R17.5 tyres

EQUIPMENT

STANDARD

rear view camera
depth guide camera
central lubricating system
automatic climate control with park heating and underfloor heating
comfort seat with seat heating and active ventilation
AM/FM/CD/USB/Bluetooth/DAB+ radio
2 USB interfaces
Hella LED road lights
electrically adjustable mirrors
tool kit
all rollers are hard-coated
pickup rollers with Widia pickup fingers

ADDITIONAL EQUIPMENT:

pinch roller recleaner with 8 counter-rotating, hard-coated pinch rollers
stone protection consists of a sieve conveyor followed by a roller cleaner
10 PU cleaning rollers and 2 stone remover rollers
water spray system for pinch rollers and recleaner with 400 litre water tank
Duo water spray system for pinch rollers and recleaner with 400 litre water tank (2 valves for each pickup side part, extended number of nozzles on pickup, 2 valves on pinch roller recleaner)
digital camera for truck conveyor
digital camera for recleaner
R-View with two additional side cameras for rear area monitoring

Console on steering wheel

CAN interface with USB transformer for TMS device

maximum speed of 40 km/h with 2 traction drive motors

storage compartment 1,000x600x600 mm behind rear axle,
made of V2A

weighing system with CAN bus weighing cells

For delivery within the EU/Europe incl. TÜV Certificate according to § 21 German Road Traffic Licensing Regulations. Conforms to Machinery Directive 2006/42/EC (CE marking) and the requirements of the employers' liability insurance association. Subject to technical changes.

Existing protective covers have been partially dismantled for better imaging. The machine must not be operated without these covers! Made in Germany.