

DIMENSIONS

LENGTH

14.97 m

WIDTH

3.00 m

HEIGHT

4.00 m

UNLADEN WEIGHT

With full fuel tank from 30,400 to 31,600 kg depending on equipment

Approved gross weight: 32,000 kg, 4-axle

DIESEL ENGINE

ENGINE

Mercedes Benz OM 936 LA 6-cylinder inline engine

EXHAUST GAS CATEGORY

Exhaust gas category 4 final with AdBlue and SCR cat

DISPLACEMENT

7.7 litres 260 kW (354 hp)

MAX. TORQUE

1,400 Nm max. torque at 1,200 rpm.

FUEL

Fuel capacity 1,225 litres

AdBlue capacity 95 litres

Ball valve for 8 litre reserve tank if main fuel tank is empty
electric pump for automatic venting of the fuel system

FEATURES

2-stage turbocharging

Fully electronic engine control unit with fuel consumption evaluation in the colour terminal

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 colour terminal

TRACTION DRIVE

FEATURES

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

The drive pump alone 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

BRAKES

front axle with drum brake 500x180 duplex

rear axle with drum brake 500x120 simplex

4 spring-loaded brake cylinders for service and parking brake

DRIVING SPEED

driving speed of 32 km/h

Optional driving mode 40 km/h with 2 engines

TURNING RADIUS

9.90 m inner diameter

STEERING

front axle steering
rear axle steering
all-wheel steering
Automatic centring of rear axle

CABIN

HEIGHT ADJUSTMENT

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

DRIVER'S POSITION

automatic climate control
Rotatable and air-spring-mounted comfort seat with heating and seat rotation brake
Clear overview of the beet flow at the R-Touch colour terminal
Error memory
MP3 radio with audio system
console for telephone
60 litre storage compartment in rear wall of cabin

TERMINAL

R-Concept operating console at rotatable seat
12.1" R-Touch colour terminal with R-Select and R-Direct operating system
error memory

OPERATION

2 multifunction joysticks with integrated proportional mini-joysticks

LIGHTING

2 LED interior lights

WINDOW WIPERS

Five window wipers on windscreen, side windows and doors
All window wipers have intermittent operation and a washer system

CAMERA

Video system at rotatable seat with split function and standard 2 cameras (optionally up to 4 cameras)

HYDRAULIC SYSTEM

PDG

OMSI pump distributor gears, pressure circulating lubrication with gear oil cooler
Gear ratios adjusted for reduced engine speed during loading from 1,150 rpm

OPERATING HYDRAULICS

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)

Danfoss hydraulic motors

PICKUP SYSTEM

PICKUP

Maximum pickup width 10.2 m

ROPA roller pickup with 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

2. OUTWARD FLOW

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

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

ROTATIONAL SPEED

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

Colour camera
LCD colour monitor for monitoring pickup depth

FROST BREAKER

Frost breakers in centre of pickup and side sections

CLEANING

CLEANING AREA

total 35.4 m²

CLEANING PATH

maximum 31.7 m

STANDARD

Sieve conveyor
90 cm wide
40 mm pitch

OPTIONAL

Pinch roller cleaning with 8 counter-rotating rollers
1,150 mm internal dimensions
1,300 mm external width
Roller identical to pinch rollers in pickup

INFEEED CONVEYOR

80 cm wide
50 mm pitch with specially moulded PU fingers and soil deflectors
Double profile belts with speed monitor
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

TRUCK CONVEYOR

OVERLOADING HEIGHT

6.0 m

OVERLOADING WIDTH

15.0 m

FEATURES

80 cm wide

40 mm pitch

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

FEATURES

6 metres to articulation point

bottom plate in fuel tank of 15 mm steel

ELECTRICAL SYSTEM

FEATURES

24 V

alternator with 150 A

3 pcs. 12V outlets

3 pcs. 24V outlets

Diagnostic system for all sensors and actuators integrated in R-Touch colour terminal

Software updates can be uploaded via standard USB port
Durable, waterproof, anticorrosion structure of on-board electrical system

single-lead sealed plugs (AMP, German) used exclusively
central electrical system wired with WAGO spring-clamp terminals (vibration-proof)

3 identical ESR computers and 5 identical Hydac TTC modules (can be replaced!)

SAFETY

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

warnings are displayed as icon with text in the applicable language

wiring harness mostly wrapped with protective covering

ROAD DRIVE

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 Mega X Bib 710/75 R34

Optional: Michelin CerexBib 800/70 R32 (caution oversize 3.26 m)

LIFT AXLES

2 pcs. with hydraulic suspension
standard

Tyres 235/75 R17.5

EQUIPMENT

STANDARD

- sieving conveyor cleaner
- rear view camera
- depth guide camera
- central lubricating system
- automatic climate control
- Seat heating
- Bluetooth radio
- USB port
- Hella LED working lights and rear view lights
- Electrically adjustable mirror
- tool kit
- All rollers hard-coated
- pickup rollers with Widia pickup fingers

ADDITIONAL EQUIPMENT:

- Stone remover
- Recleaning with 8 counter-rotating hard-coated pinch rollers
- park heating
- water spray system with single sections that can be switched from R-Touch incl. 400 litre water tank
- truck conveyor camera
- recleaner camera
- 40 km/h traction drive
- working floodlight, 1 LED each on left and right of cabin roof
- storage compartment 1000 x 600 x 600 mm behind rear axle
- weighing device with 2 weighing cells
- weighing device with 6 weighing cells