

DIMENSIONS

LENGTH

14.97 m

WIDTH

3.00 m

HEIGHT

4.00 m

UNLADEN WEIGHT

with a full fuel tank 30,300 to 31,500 kg depending on equipment

approved gross weight: 32000 kg, 4-axle

DIESEL ENGINE

ENGINE

Mercedes Benz OM 926 LA 6-cylinder inline engine

EXHAUST GAS CATEGORY

Exhaust gas category EU 3b / TIER 4i (with SCR cat and AdBlue) 240 kW (326 hp) at 2200 rpm.

DISPLACEMENT

7.2 litres

MAX. TORQUE

1300 Nm at 1200-1600 rpm

FUEL CONSUMPTION

approx. 194 g/kWh at 1250 rpm under full load

FUEL

fuel capacity 1225 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

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

automatically reversing hydrostatic fan drive controlled depending on ambient temperature

only one flat-belt drive with automatic belt tensioner

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 significantly more than 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

constant throttle brake prevents the diesel engine from overspeeding under full braking and downhill

the load feed is controlled by very fine actuation of super crawling speed

BRAKES

front axle with drum brake 500x180

4 spring-loaded brake cylinders for service and parking brake

DRIVING SPEED

20 or 25 km/h
optionally 40 km/h (with additional drum brake in rear axle)

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

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
MP3 radio with audio system
console for telephone
60 litre storage compartment in rear wall of cabin

OPERATION

new, compact operating console at rotatable seat with integrated colour terminal
function keys and rotary selection switch
2 multifunction joysticks with integrated proportional mini-joysticks

TERMINAL

colour terminal with clear overview of the beet flow
error memory

LIGHTING

2 LED interior lights

WINDOW WIPERS

window wipers front, left, right and rear

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
Gear oil cooler
gear ratios adjusted for reduced engine speed during loading
(1,200 - 1,300 rpm)

OPERATING HYDRAULICS

powershift multiple disc clutch to switch 6 hydraulic pumps of the operating drives
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 finger rollers work the soil to a depth of 7 cm

2 cleaner rollers

2. OUTWARD FLOW

6 conveyor rollers transport outward, divide the beet flow

3. INWARD FLOW

8 counter-rotating pinch rollers (8 mm wall thickness) guide inward

double cleaning path

CENTRAL MARK

central mark with new zero-backlash drive

ROTATIONAL SPEED

adjusted automatically with 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

proportionally controlled residual beet pickup

telescopic outer tube 180x180x5 mm

CAMERA

colour camera

LCD colour monitor for monitoring pickup depth

FROST BREAKER

in pickup centre and side section

RECLEANING

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
115 cm internal dimensions
130 cm external width

INFEED CONVEYOR

80 cm wide
50 mm pitch with new moulded PU fingers and soil deflectors
Double profile belts with speed monitor and fast speed switching
Side wall 4 mm steel plate

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

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

3x 12V outlets

3x 24V outlets

2 alternators each 100 A

diagnostic system for all sensors and actuators integrated in 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 RIO 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 TRAVEL

SWITCH TO OPERATING POSITION

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

EQUIPMENT

STANDARD

rear view camera

depth guide camera

central lubricating system

automatic climate control

seat heating

Bluetooth radio

tool kit

all roller hard-coated

ADDITIONAL EQUIPMENT:

recleaning with 8 counter-rotating hard-coated pinch rollers

park heating

water spray system

truck conveyor camera

recleaner camera

32 km/h version

data printer

electrically adjustable mirror

additional storage compartment 1000 x 600 mm behind rear axle

Weighing device

integrated GIS interface

RABS system integrated in terminal for transport logistics with transponder or data key

laptop holder for Dell type ATG