

DIMENSIONS

LENGTH

14.99 m

HEIGHT

4.00 m (transport position)

WIDTH

3.00 m (6 rows with 45 cm rows)

3.30 m (6-rows at 50 cm width and 45-50 cm variable)

> 3.30 m (with RR-XL depending on the size of the lifting unit)

UNLADEN WEIGHT

from 33,400 kg, depending on equipment

BUNKER CAPACITY

over 43 m³ / 30 t

DIESEL ENGINE - 2 ENGINE MODELS AVAILABLE

VOLVO PENTA TWD1683VE

796 hp/585 kW

16.12 l displacement

Volvo Penta 6-cylinder inline engine

common rail injection

emission level EU 5, USA TIER 4f, with SCR catalytic converter and AdBlue, maximum fuel sulphur content 15 ppm required to meet exhaust emission standard

max. torque 3,650 Nm, 3,550 Nm from as low as 1,000 rpm, working speed 1,100 rpm, automotive up to max. 1,650 rpm

VOLVO PENTA TAD1643VE-B

565 kW (768 hp)

16.12 l displacement
Volvo Penta 6-cylinder inline engine
pump-nozzle injection (PNI)
WITHOUT AdBlue, WITHOUT exhaust gas recirculation
fuel with sulphur content to max. 5,000 ppm permitted
max. torque 3,260 Nm, working speed 1,100 rpm, automotive
up to max. 1,650 rpm
not for USA and Canada

FUEL TANK

1,320 l diesel
fuel consumption displayed in l/ha and l/h in terminal

ADBLUE TANK

145 l AdBlue
(Volvo Penta TWD1683VE - 796 hp / 585 kW only)

COOLING SYSTEM

FEATURES

flat side-by-side arrangement of cooling elements for charge
air and water
hinged CVR oil cooler and air conditioning system condenser
dirt-resistant positioning of the radiator at rear top
hydraulic oil cooler with open fan
hydrostatically continuously driven and automatically
reversible fan

TRACTION DRIVE

GEARS

traction drive with stepless CVR gearbox for efficient power
traction
consisting of three hydraulic motors on the compound
gearbox

FEATURES

continuous from 0 to 40 km/h without interruption (no gear change or switching)

40 km/h in road mode at 1,200 rpm, 17.5 km/h in the field at 1,240 rpm

TYRES

1ST AXLE:

Michelin CerexBib2 IF 800/70 R38 (1.4 bar)

2ND AND 3RD AXLE:

Michelin MegaXBib 1050/50 R32 (1.9 bar)

OPTIONAL

Michelin CerexBib 1000/55 R32 (1.4 bar)

FEATURES

large tyre contact surface protects soil and allows high operating reliability even in wet conditions and on slopes

CHASSIS - R-SOIL PROTECT

FEATURES

patented chassis design with oscillating front axle in conjunction with 2 hydraulically supported rear axles

SLOPE ADAPTATION - R-BALANCE

FEATURES

the chassis can be inclined by 10% to the slope on each side by 6 hydraulic cylinders

automatic slope compensation by a 3-axis gyroscope with acceleration measurement for centrifugal force compensation (optional)

CHASSIS ROLL STABILISATION

roll stabilisation by hydraulic compensation of the oil level in the stabilisation cylinders on one side of the vehicle

HYDRAULICS

PUMP DISTRIBUTOR GEARS

with pressure circulation lubrication and gear oil cooler

TRACTION DRIVE

Bosch Rexroth traction drive

OPERATING HYDRAULICS

well dimensioned load-sensing working hydraulic system by Bosch Rexroth, Bucher and Hydac

CABIN

DRIVER'S POSITION

sound-insulated and tinted all-round windows with low horizon

quiet stepless fan in heating and ventilation system (automatic climate control)

Grammer air-spring-mounted ROPA Evolution comfort seat with heating and active ventilation

autopilot

cruise control

console for telephone

AM/FM/CD/USB/Bluetooth/DAB+ Radio with external microphone for hands-free communication

14 litre cool box

OPERATION

R-Touch

multifunctional joystick right with programmable keys

bunker control element with joystick grip on the left armrest

TERMINAL

12.1" R-Touch display on the operating console

12.1" R-Touch display on the left A-pillar

fully integrated machine diagnosis including DM1 error messages from the diesel engine in plain text

LIGHTING

2 LED interior lights

WINDOW WIPERS

wide-area window wiper

CAMERA

the relevant camera image is automatically displayed on the left R-Touch display while reversing or when unloading the bunker.

TOPPER/RUBBER TOPPER

RIS

integral defoliator unit with leaf spreading between beet rows
2 depth-control wheels

RISU

integral defoliator unit with leaf spreading between beet rows
without depth-control wheels

RAS

all-round defoliator unit, push-button operation from the driver's seat, can be changed for either integral topping or leaf ejection to left

2 depth-control wheels (optionally 4 depth-control wheels)

RBSO

defoliator with side leaf ejection to the left

leaf auger and leaf spreader

4 rigid depth-control wheels

only available in 45 cm

(only permitted in certain countries due to legislation)

RES

rubber defoliator with leaf spreading between beet rows

2 depth-control wheels

LIFTING UNIT

RR LIFTING UNIT

6, 8 or 9 rows

45 cm, 50 cm or variable (6-row only)

hydraulic share depth adjustment of the individual rows

hydraulic stone protection

85 cm depth-control wheels

7 lifting rollers

fast stepless oscillating share drive by axial-piston motor

adjustable taper roller bearings in oscillating share drive and lifting gears

excellent view of lifting unit and scalper with no additional cameras

MAINTENANCE POSITION

allows the defoliator and the lifting group to be raised 90 degrees for simple inspection and service of defoliator knives, scalper knife and lifting shares

CLEANING

INFEEED CONVEYOR

800 mm wide
50 mm pitch

1ST STRAINER WHEEL

1,740 mm diameter
strainer wheel with forged tines
6 offset strainer wheel tines

2ND AND 3RD STRAINER WHEELS

1,500 mm diameter
strainer wheels with forged tines
4 offset tines each strainer wheel

GUIDE GRIDS

height independently adjustable at 1st, 2nd, 3rd strainer wheel can be independently adjusted
guide grids can be replaced with spring tines segment by segment

ELEVATOR

1,000 mm wide

ELECTRICAL SYSTEM

VEHICLE POWER SUPPLY

24 volt

GENERATOR

150 A

OUTLETS

12 V socket on seat console, 1 pc.
24 V socket on seat console, 1 pc.
USB double socket 5V / 3.6A (USB-A and USB-B), 2 pcs.

FEATURES

CAN-bus computer system with integrated diagnosis of all components connected to the terminal
software can be updated at USB port

LIGHTING

HEADLIGHTS

2 pcs. Hella C140 LED main headlights at the front on the defoliator unit
6 pcs. LED working headlights (1,700 lumen) Hella LED Oval 90 on the cabin roof
23 pcs. LED working floodlights (1,800 lumen) Nordic Lights
4 pcs. LED spotlights for lighting the engine compartment

ROTATING BEACONS

Hella RotaLED Compact

FEATURES

coming-home function

UNLOADING CONVEYOR

FEATURES

triple-fold conveyor for even easier establishment of 10-metre-wide clamps
gentle PU fingers for high output and short unloading times
the speed of both conveyors is steplessly adjustable
long conveyor with speed switch

UNLOADING CONVEYOR WIDTH

200 cm for even easier unloading to trailer

BUNKER UNLOADING

in less than one minute

OVERLOADING HEIGHT

up to 4.00 m

YIELD INDICATOR

FEATURES

bunker contents are measured with 2 ultrasonic sensors
All bunker loads (including partial) are automatically recorded in the database

EQUIPMENT

STANDARD EQUIPMENT

central lubricating system
fuel consumption measurement
automatic climate control
1 digital camera as rear view camera
1 digital camera for strainer wheels unit
R-Connect telematics module incl. SIM card
hard-coated scalper flails
lifting rollers with a hard welded-on finish
cleaner on elevator rubber
40 km/h
manual slope compensation R-Balance

OTHER EQUIPMENT OPTIONS

automatic slope compensation R-Balance
R-Contour (automatic share depth adjustment of single rows
by ground contour detection)
R-Trim (automatic defoliator height adjustment)
reinforced defoliator plate for integral defoliator
topper with combined shaft instead of standard topper shaft
leaf spreader in stone protection mode
leaf pile equipment (only at defoliators with leaf ejection)
inflow sheet with skid on scalper
Widia forged lifting shares
data printer
R-Transfer PROFESSIONAL
R-Transfer BASIC
R-View video system (bird's-eye view)
1 digital camera for infeed conveyor
1 digital camera for unload conveyor
1 digital camera for beet crop on cabin roof
R-Connect Monitor
non-slip speed measurement
2 LED high-beam headlamps (4,200 lumen each) on mirror
brackets
4 LED high-beam headlamps (4,500 lumen each) on mirror
brackets
strainer wheel segments optionally with guide grids or spring
tines on strainer wheels 1-3
agitator in the 2nd strainer wheel
2nd strainer wheel discharge grid in standard, stone
protection or spring tine model
limit sensor on diesel tank
additional chassis (obligatory in Germany)
reduction of maximum speed from 40 km/h to 32 km/h
chicory equipment
contour marking package