

TECHNICAL DATA PANTHER 2S

DIMENSIONS

LENGTH

13.53 m

HEIGHT

3.00 m

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)

BUNKER CAPACITY

approx. 30 m³ / 21 t

DIESEL ENGINE - 2 ENGINE MODELS AVAILABLE

PANTHER 2SD ENGINE - VOLVO

PENTA TWD1683VE

796 hp/585 kW

16.12 l displacement

6-cylinder inline engine

common rail injection

complies with EU level 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

PANTHER 2SA ENGINE - VOLVO PENTA TAD1643VE-B

565 kW (768 hp)

16.12 l displacement

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 EU/USA/Canada)

FUEL TANK

1,300 l diesel

fuel consumption displayed in l/ha and l/h in terminal

ADBLUE TANK

145 l AdBlue

(only on Panther 2Sd)

COOLING SYSTEM

PROPERTIES

flat side-by-side arrangement of cooling elements for charge
air and water cooling

hinged 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

FIRST GEAR

0 - 16.5 km/h (at 1,400 rpm of diesel engine)

SECOND GEAR

0 - 40 km/h (at 1,265 rpm of diesel engine)

GEARS

transmission and axle ratios for low speed of straight cardan shafts

two braked portal axles with cooled differential gears

planetary final drive with 19-hole bolt pitch circle (500 mm diameter) with 4 planetary gears

CHASSIS – ANTI SHAKE AND BALANCE SYSTEM

PROPERTIES

an innovative chassis concept with 2 floating axles in conjunction with 4 stabilising cylinders

R-BALANCE SLOPE ADAPTATION

the chassis can be inclined by about 7% to the slope on each side by 4 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

TYRES

1ST AXLE:

Michelin IF 800/70 R38 CerexBib2

2ND AXLE:

Michelin IF 900/60 R38 CerexBib2

PROPERTIES

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

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)

air-sprung GRAMMER ROPA Evolution 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 system, 14 litre cooling box

OPERATION / TERMINAL

12.1" R-Touch display on the operating console

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

multifunction joystick on the right with programmable buttons

bunker control element with joystick grip on the left armrest

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

TOPPER/RUBBER TOPPER

INTEGRAL TOPPER

leaf spreading between beet rows

with or without depth-control wheels

ALL-ROUND TOPPER

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

with or without depth-control wheels

TOPPER WITH LEAF EJECTION

for side leaf ejection (left)

with leaf auger and leaf-spreader

4 rigid depth-control wheels

only available in 45 cm (legally approved only in specific countries)

RUBBER-TOPPER

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
depth-control wheels, \varnothing 85 cm
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

the convenient maintenance position lifts the defoliator and the lifting group 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

1,550 mm diameter
strainer wheel with forged tines
4 offset strainer wheel tines

STRAINER GRID

height independently adjustable at 1st, 2nd, 3rd strainer wheel
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

SAFETY

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:

24 V outlet 1 pc.

PROPERTIES

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

warnings are displayed as icon with text in the applicable language

software updates can be uploaded via standard USB port
durable, waterproof, anticorrosion structure of the on-board electrical system

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

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

4 identical Hydac-TTC-580 controllers and 2 identical Hydac-TTC-30 controllers (interchangeability if pin is not assigned)

wiring harness mostly wrapped with protective covering

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

18 pcs. LED working floodlights (1,800 lumen) Nordic Lights

4 pcs. LED spotlights for lighting the engine compartment

PROPERTIES

coming-home function

ROTATING BEACONS

Hella RotaLED Compact

UNLOADING CONVEYOR

PROPERTIES

triple-fold conveyor
for even easier establishment of 10-metre-wide clamps
gentle PU fingers for high output and short unloading times

BUNKER UNLOADING

in less than one minute

OVERLOADING HEIGHT

up to 4.00 m

UNLOADING CONVEYOR WIDTH

1,600 mm for even easier unloading to trailer

YIELD INDICATOR

PROPERTIES

2 ultrasound sensors measure the bunker content, full bunkers (and partly loaded bunkers) are added up and 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
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 topper hood
topper with combined shaft instead of standard topper shaft
leaf spreader in stone protection mode
leaf pile equipment (only for all-round topper and topper with leaf ejection)
scalper inflow sheet with skid
Widia forged lifting shares
different versions of lifting rollers
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
4 Hella LED high-beam headlamps (4,500 lumen each) on mirror brackets
guide grid 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 metal, stone protection or spring tine model
limit sensor on diesel tank
additional chassis (obligatory in Germany)
additional axle on chassis behind the rear axle (obligatory in Germany)
reduction of maximum speed from 40 km/h to 32 km/h
chicory equipment
contour marking package

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.