



HOLMER

TerraDOS



Terra-DOS



TECHNIC Harvesting for profit

HARVESTING PROCESS

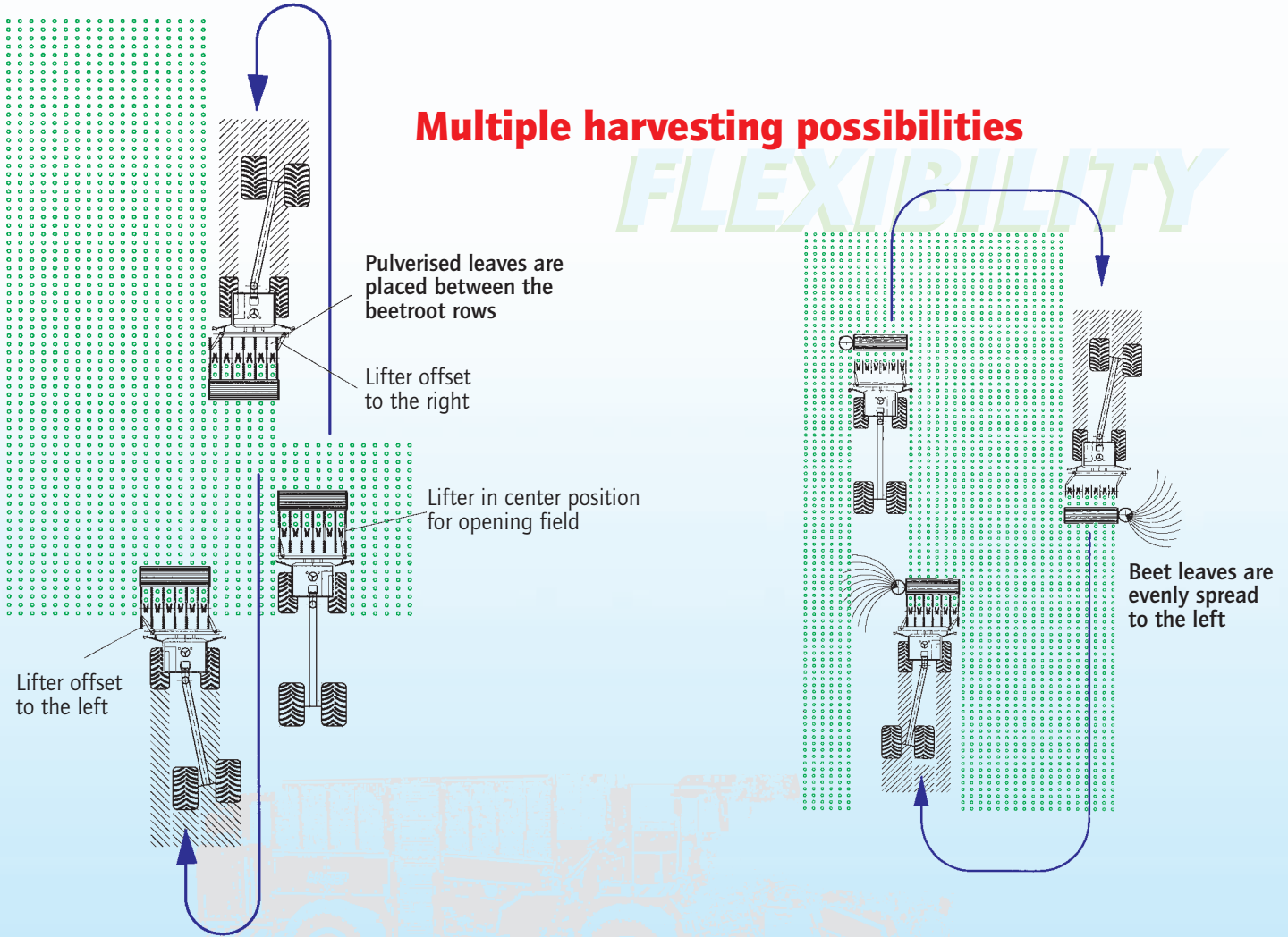
- Topping and lifting in front of the harvester wheels from undisturbed soil.
- The flail toppler effectively pulverises the leaves.
- Option: Leaves can be evenly spread for easy ploughing in, or loaded directly on a trailer running alongside - **Spreading width steplessly variable** from the cab.
- 6 centrally adjustable scalpers ensure an optimum scalping quality.
- Walking shares lift beet cleanly with minimal losses.
- In extreme or very weedy conditions, walking shares feature 2 speeds.
- Gentle, but effective cleaning on 8 spiral roller-bed, transfer web and 3 adjustable turbines.
- **Optimum 50-50 front/rear weight distribution**, regardless of whether the tank is full or empty.
- The Terra-Dos's **large-size tyres** minimise soil compaction.
- Beet is transferred to holding tank by a ring elevator, then distributed by the tank auger.
- Wide discharge elevator complete with swan-neck discharges beet.
- Transverse and longitudinal slat conveyors accelerate the unloading process.
- Total leaf recovery without ground contact.

TOP SAVING OPTION

- Lightweight construction, high speed rubberised fabric belt with carrier prongs.
- Hydraulic drive, variable speed control.
- Discharge point can be extended.
- Optional leaf collecting trailer attached to harvester.
- Quick release couplings allow easy fitting and removal.
- Leaf spreader remains folded on harvester, not detached.

Multiple harvesting possibilities

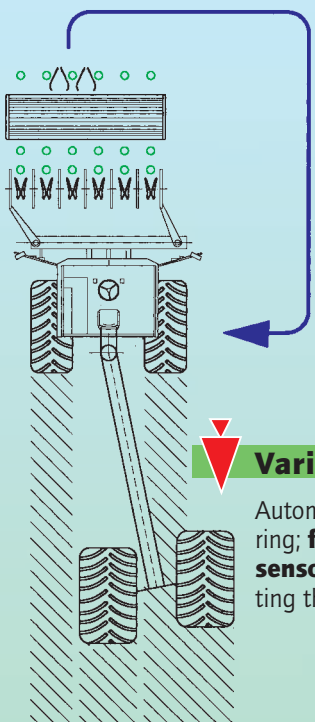
FLEXIBILITY



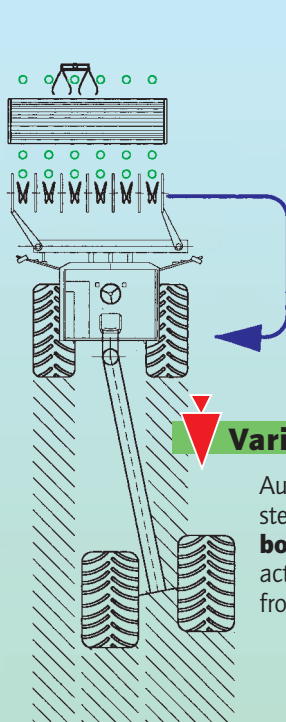
3 pre-selectable automatic steering combinations

Variation 3

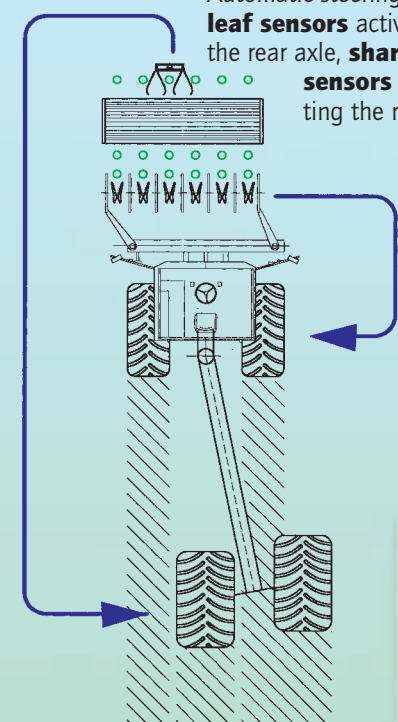
Automatic steering; **front leaf sensors** activating the rear axle, **share body sensors** activating the rear axle



Variation 1
Automatic steering; **front leaf sensors** activating the front axle



Variation 2
Automatic steering; **share body sensors** activating the front axle





▼ MAIN FEATURES

- ▼ Minimum soil structure damage, machine weight spread over a greater area
- ▼ Level soil after harvester for easy cultivation/re-drilling
- ▼ Exceptional hillside performance, enhanced by hydraulic leveling

»TERRA-DOS ARTICULATION«

With the additional chassis pivot point allowing articulation, HOLMER once again sets new standards, with truly innovative beet harvesting technology.

TERRA DOS - designed to perform

- advanced technology, developed and refined
- Flexible and versatile for a fast changing world

▼ TECHNICAL DETAILS

Simply select from these options:

- Four-wheel steer
- Crab steer
- Automatic steering

▼ STEERING COMBINATIONS

FOUR-WHEEL STEER

The front and rear wheels are activated by the steering wheel.

CRAB STEER

Both front and rear wheels are steered, and, articulation is activated by the steering wheel.

AUTOMATIC ARTICULATION MODES

The rear of the harvester is moved to the left during lifting, so the rear wheels are fully offset from the front wheels.

(Automatic mode ,0')

The neutral chassis position; rear wheels follow directly behind the front ones.





Variant BS

- Topper skin lined with replaceable nylon wear plate
- Tops spreader with hydraulic angle adjustment, folding for transport
- Spreader infinitely speed variable, to control spreading characteristics

Flail topper

- Bolted steel construction
- Depth controlled by 2 front castor wheels, adjusted independently from the driver's seat (visual indicator shows position)
- Depth wheels with quick select positions for different row widths
- Topper is parallel linkage mounted, weight carried by hydraulic displacements units. These are adjustable from the cab to allow up to 95% of the topper weight to be carried on the lifter to aid penetration as required
- Optimal control of all topping/lifting functions, even in the most difficult wet weather conditions
- Front leaf sensors for automatic steering

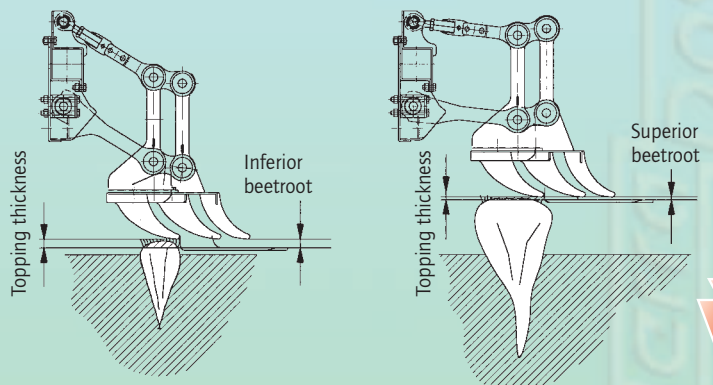
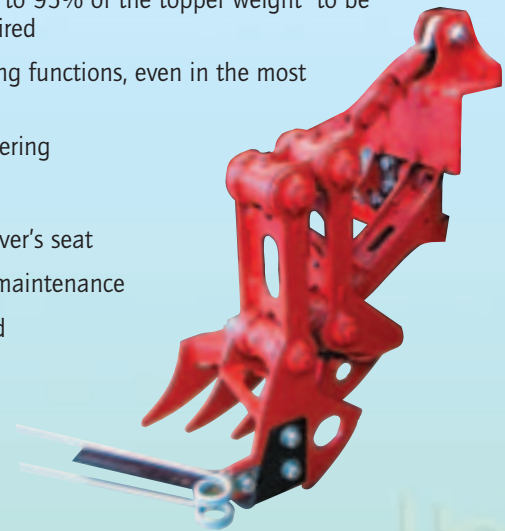
Variant JBS

- Topper hood fitted with leaf guides
- Leaves are placed between the rows
- Excellent tops incorporation
- Optimal soil condition for drilling etc

EXACT

Scalpers

- Crowning thickness of all 6 knives infinitely variable from the driver's seat
- Superb clearance when lifted for turning, with good access for maintenance
- Wear resistant, self-compensating scalpers, ball bearing mounted



The lifter

The key to optimal harvesting

- Flail topper and lifting unit follow the soil contours independently
- Depth control wheels can be adjusted independently left to right from the driver's seat (visual indicator)
- Excellent operator visibility of all topping and lifting functions
- Automatic depth control operates independently on left and right (visual indicator)
- Automatic depth control, 7 rotating depth feelers
- Lifting characteristics adjustable from driver's seat
- Generous sideways adjustment of the topping /lifting unit, about 200mm to the left or to the right, means the harvester wheels are kept well away from the crop. Making harvesting easier, cleaner.



PV 6 System

Choice of row widths,
45, 48, 50, 55, 60 cm



VPV 6 System

Adjustable row widths,
45/50 cm or 45/48 cm

Adjusting the VPV system to a different row width takes 3 minutes!

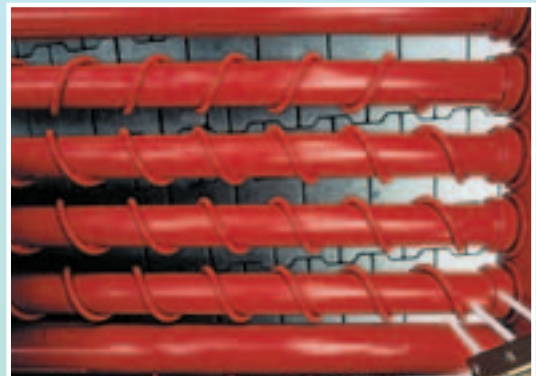


**All systems
working in harmony,
stress free**



FINE TUNING

- Choice of 7 or 8 spiral rollers
- Reversible spiral roller (No.5) can be reversed from the drivers for increased soil 'rip out' in heavy/wet conditions
- The second spiral roller's scroll transports the beets from the middle to outside increasing the cleaning/soil removal effect
- Lifter roll speed variable and reversible
- Spiral rollers driven through gearbox with gears running in oil bath
- Simple, quick replacement of spiral roller with plug-in system
- Maintenance free, heavy duty walking-share drives running in an oil bath, 70 mm sideways movement allow shares to 'self seek'
- Speed adjustable
- Spring loading provides **stone protection** for each share
- **Generous ground clearance**
- User-friendly design for ease of maintenance

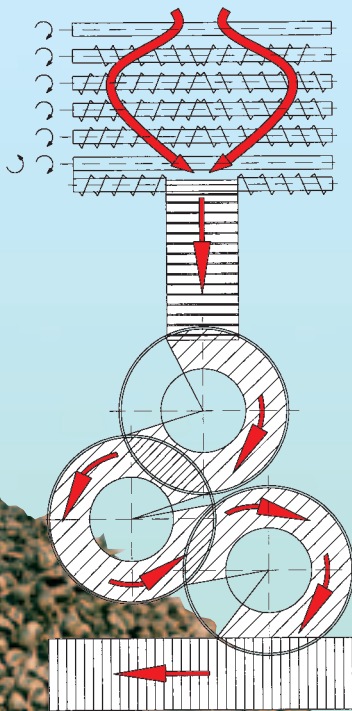




OPTIMAL Cleaning

More cleaning than meets the eye! 11 metres long cleaning path, for effective soil removal!

- Transfer conveyor, strong, reliable, speed and tension are adjustable, cab monitored
- Automatic, load dependent, conveyor tensioning
- Driver selected speeds of the transfer web and turbines, steplessly adjustable from the driver's seat
- Automatic speed adjustment, power is increased/decreased as loads change on variable soils and conditions
- 2-speed ring elevator
- Additional trash removal roller between transverse slat conveyor and discharge elevator
- Gates heights steplessly adjustable from the driver's seat with in cab position indicator
- Turbine gates options; standard bar gates, or 'pigtail' type
- Different turbine gate systems, quickly, easily interchangeable
- Gentle handling with efficient cleaning maintains beet quality
- Optimum 50-50 front/rear weight distribution, regardless of whether the tank is full or empty

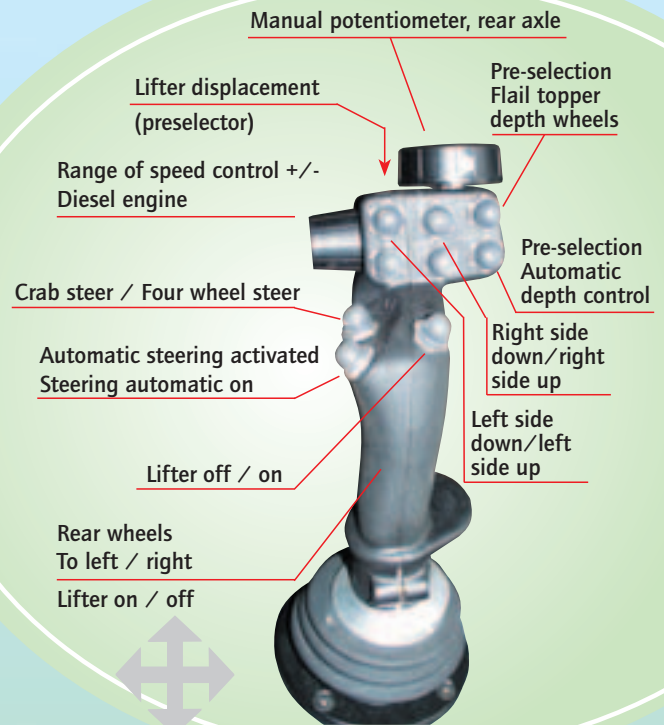


- Terra-Dos's large-size tyres minimise soil compaction
- Beets is carried by the ring elevator, evenly distributed by auger
- Emptying of holding tank speedily effected with wide discharge elevator
- Transverse and longitudinal slat conveyors accelerate the unloading process

- Extremely quiet – 66.7 dB(A)
- First class ergonomics, all controls and monitoring systems logically positioned
- Comfortable, air suspension seat with armrests and headrest
- Pull down windscreen sun-blind
- Exterior panoramic mirrors, heated, electric adjustment, pneumatic folding
- 3-way adjustable steering column
- Excellent operator visibility of scalpers, shares and cleaning rollers
- Multi-stage heating, air conditioning option
- The lower half of the tinted screen pneumatic open/close facility
- Interior illumination, with reading lamp
- Lockable printer to print out all important data
- Passenger seat
- Monitor showing turbines and area behind the machine (optional)
- Radio
- Lift-up operator's control console, comfortable access to all electronic components
- Self steer/cruise control
- Joystick and control console ideally positioned for driver, wide range of seat adjustment
- Multi-function joystick allows quick selection of steering functions and more
- Intelligent computer monitors and automatically adjusts to pre-set values taking the load of the driver. Sensors and controls enable many functions and their characteristic to be adjusted to suit conditions and operational requirements
- All relevant data as well as warning signals are displayed visual and audible formats on the central console and VDU
- Self-diagnostic program alerts driver of faults and their causes

Comfort cabin

All round visibility – With style and practicality



TerraDOS



Dokumentenfassung Holmer Terra Dos

HOLMER Holmer Maschinenbau GmbH
Bogenbergstraße 20 83421 Eggmühl

Modell:	Seriennummer:	13497
Optimiert:	Fabrikations-Nr.:	12 120 P0
Optimiert:	Start:	7.10.1999
	Ende:	7.10.1999
	Zahl-Gesamtheit:	1133 h
	Zahl-Runden:	6:35 h
	Zahl-Erntebänne:	0:56 h
	Zahl-Mäher:	2:58 h
	Zahl-Ansatz:	0:41 h
	Weg-Feld:	11,7 km
	Weg-Feld:	55893 m
	Weg-Felder:	44976 m
	Weg-Felder:	191
	Diesel-Anspruch:	375 l
	Diesel-Ernt:	594 l
	Diesel-Gesamtheit:	331
	Weg-Felder:	1:153 P0
	Weg-Felder:	4011 m
	Diesel-Ernt:	301
	Diesel-Gesamtheit:	331

Wartung: Sägebock Sockel Feuchter Mäher Sägebock

Werkzeuge: Sockel Feuchter Mäher Sägebock

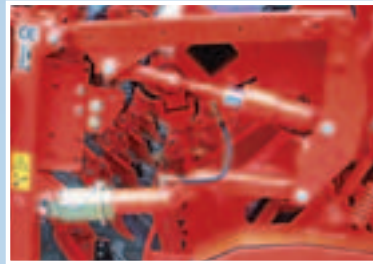
Werkzeuge: Sockel Feuchter Mäher Sägebock

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Data printer



All round visibility from tinted glass, sound insulated comfort cabin

Data printer

The lower half of the tinted screen opens/closes pneumatically

25 working lights

24 m³ holding tank capacity

Exterior panoramic mirrors automatically adjust when machine articulates

Unloading elevator 2,2 – 3,8 m discharge height

Steering auto-sensing via $\left\langle \begin{array}{l} \text{share bodies} \\ \text{leaf-sensors} \end{array} \right.$

Hydraulic driven

Walking-shares with linear movement

Automatic depth-control

Flail topper weight transfer

Portal front axle

Depth control sensor wheels are hydraulically adjustable

Wear-resistant, self-compensating scalpers, ball-bearing mounted

Digging (or: lifting) depth hydraulic adjustable

Cleaning with 3 turbines

Large flotation tyres

Engine and hydraulic system cooling

Electronically controlled and maintained

Storage batteries, tools, lubricants, central lubrication system and diesel tank with shut-off valve

Flail topper-leaf store

IBS (Leaves are placed between the rows) or

BS (through/by means of distributing plate on the field)





Original and best - worldwide Number 1





TECHNICAL DATA AND DESCRIPTION

TerraDOS

Motor: MAN D 2876 LF03

Motor rating: 338 kw (460 hp)

Drive: Mechanical axles at front and rear, shaft driven; between the two axles a hydrostatically driven two-speed gearbox
Automatic control of engine speed and drivetrain

Axles: Front: Portal planetary steering axle with brakes
Rear: Planetary steering axle with brakes

Blocks: Front and rear axles are fitted with controllable differential locks

Speed: 1st. Gear: 0 – 12 km/h infinitely variable,
2nd. gear: 0 – 25 km/h infinitely variable,
Cruise control in 1st and 2nd gears

Hydraulics: Pumps manufactured by Linde
Motors manufactured by Danfoss

Topper: Flail topper with auger
alternatively: Integral flail topper with tops deflectors

Scalpers: Self-compensating; crowning thickness of all 6 knives centrally adjustable from the driver's seat; topper bar for all 6 scalpers adjustable in height from the driver's seat

Leaf spreader: Spreading range adjustable from the driver's seat; hydraulic folding for road transport

Leaf recovery: Using a conveyor belt; mounted with quick hitch system; includes a trailer for road transport

Lifter: Driven walking shares which can be connected and disconnected; linear lateral mobility of 70 mm towards each other, zero maintenance since running in an oil bath, with automatic depth control via 7 driven feeler wheels, adjustable from the driver's seat, walking vibrating shares, lifter rolls reversible

Row width: at PV6 **alternatively** 45, 48, 50, 55 and 60 cm
at VPV6 **adjustable rows** 45 – 50 cm, 45 – 48 cm

Cleaning: 5 or 6 long spiral rollers, 1 short spiral roller
1 riddle belt (reversible); 3 cleaning-turbines (22 mm bar thickness)

Gates: Segment gates or spring tine gates, steplessly adjustable in height from the driver's seat, with digital display on the LCD screen

Ring elevator: ‚Continental‘ type web, steel flights with extra thickness bar, 2 spees

Distribution of beets in holding tank: Auger, left-and right-handed thread

Holding tank base: Consisting of transverse and longitudinal slat conveyors with 4 heavy duty driving chains, tensioned automatically, hardened and tempered, individual segments pretentious

Unloading: Only possible to operate in sequence; unloading elevator – transverse slat conveyor – longitudinal slat conveyor

Unloading elevator: Width 1,85 m, hydraulically driven and folding; variable speeding during the lifting, transfer beet to trailers, on the move unloading facility

Cab: Sound insulated, with co-driver seat, 2 ventilator windows, heating, on-board computer and radio, air conditioning optional

Lighting: Fitted with all-round working lights and powerful headlights for night operation

Monitoring device: Beet flow monitoring via central computer; hydraulic oil status and motor speeds system malfunction warning bleeper

Steer: Pre-selectable steering combinations, 4-wheel steer, pivot steer, crab- steer, automatic-steer (3 position)

Self-lubricating system: electronically controlled, automatic, interval adjustable

Fuel tank: Approx. 1150 litres

Holding tank capacity: 24m³ (18 tonnes)

Transfer height: Approx. 3.8 m

Overall length: 12.00 m

Overall width: 3.00 m at row width of 45 cm = PV6
3.30 m at row width of 50 cm = PV6
3.30 m at row width of 45-50 cm = VPV6

Overall height: 3.98 m

Wheelbase: 5.10 m

Tyres: **front:** 800/65 R32 X M28 (width approx. 80 cm)
rear: 73 x 44.00 – 32 NHS (width approx. 109 cm)

Maximum transfer Height of leaf belt: Approx. 3.7 m

Overall length of the cleaning path: Approx. 11.0 m

Capacity: up to 1,5 ha/h

Subject to technical alterations!



HOLMER

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