

Beet cleaner loader Ropa Maus 6:

# Loads, weighs, warms

Ropa's latest Maus 6 cleaner loader range started rolling off the assembly line last autumn. The new models boast many updates that focus mainly but not exclusively on the operator.

Further drivers for developing a new range were Emission Stage V requirements and the company's new electronics strategy. Following the example of the Tiger 6S and Panther 2S, the Maus 6 (German for "mouse") has a new central electric system and a separate on-board software. These updates expand the machine's functionality and offer more operator comfort including automatic folding which required several operator inputs on the previous models.

## Design retained

The key features on the new flagship were taken over more or less unchanged from the Maus 5, such as the 10.20m pick-up system which has either cleaning webs or rollers. Another element that was taken over from the predecessor is the six-cyl. in-line engine (OM 936 LA from Mercedes-Benz) with 260kW/354hp.



The cab gains in space and offers more legroom and more space behind the seat.

Its new Stage V exhaust gas cleaning system consisting of an SCR catalytic converter and a diesel particulate filter occupies nearly twice as much space. The particle filter is cleaned passively in the first regeneration stage and then actively. In the

passive stage, the fuel is combusted at higher temperatures than what is typical in some load ranges, and for which the engine is equipped with an adjustable camshaft. In the active phase, the fuel is injected into the exhaust manifold for thermal cleaning. Both cycles normally run automatically. Should



A standard cool box is integrated in the rear cab wall.



Solid window blinds even on the side windows improve visual comfort.

any operator invention become necessary, he or she is prompted by the terminal to do so. The particle unit is due for replacement after approx. 4,500 operating hours.

## 35% larger cab

Tall drivers will appreciate the larger cab which is 16cm wider at floor level and offers 40cm more room behind the seat - a real miracle in terms of space. Being on the

DATA SHEET	
ROPA MAUS 6	
Pick-up width	10.20 m
Pick-up elements	Two sets of 10 rollers, a powered central cone
Central web width	80 cm
Filling height	6.00 m
Unloading width	up to 15.00 m
Cleaning length	31.70 m
Cleaning area	approx. 35 m <sup>2</sup>
Engine	Mercedes-Benz OM 460LA
Engine power	260 kW/354hp
Emission standard	Stage V
Fuel/AdBlue tank capacity	1,225/95 litres
Tyre size	710/75 R 34
Auxiliary running gear	2 x 235/75 R 17.5
Transport dimensions (l,w,h)	3.00/14.97/4.00m
Weight	31.6 tonnes
List price <sup>1)</sup>	from € 520,000
Manufacturer information, <sup>1)</sup> excl. VAT.	



The new user interface is clutter-free and easy to fathom.

cab, the Ropa engineers also added a passenger seat, drawers for storing papers and a cool box as standard specifications. In addition to permanent driver seat ventilation, there is now a height-adjustable steering column, a smaller steering wheel and a second flange plate for tablet holders. A bottle holder under the left joystick and sun blinds on the side windows were also added.

For improved visibility in rainy weather, all six wiper motors on the side and rear windows are now synchronised via the Can-Bus. The motors offer three wiper intervals.

## Familiar user interface

Sourced from the company's beet harvesters, the two 12.1-inch touch terminals allow operators to set up the machine and view the camera feeds, for example of the clamp from the roof-mounted camera. The data can be transferred to Ropa's internet



The feeds from the various cameras can be arranged as required.

Maus 6 appearances are enhanced by blue-silver-grey highlights. Photos: Schulz, manufacturer (3)



## KEEPING IT BRIEF

The first fifty Generation 6 cleaner loaders are now out in the field.

New features include the Stage V engine, a new central electrical system and weighing cells.

Various innovations increase operator comfort in particular.



## DRIVING IMPRESSION

platform for online tracking.

One terminal now controls the optional spraying system on the roller webs. Previously the ball valves had to be operated manually but are now controlled electronically from the terminal. A hands-free CB radio can now be activated from the joystick as an option for legal CB communication during road travel.

Last, a few comments on the new heating and ventilation system: cold feet are now a thing of the past, courtesy of electronic underfloor heating. In addition, a large heat exchanger and two fans ensure sufficient heating and ventilation in the larger cab.

Out on the unloading elevator, we find new weighing sensors that are integrated inside the unloading web for more accurate weighing. This weighing unit consists of a separate weldment which although inte-



The emission cleaning system comprises SCR and particle filter (top) and a 400l tank for the spraying system (bottom).



For improved weighing accuracy, two load cells measure the load on a separate frame.

grated in the main frame is more or less detached from this. Its receiving end pivots in its bearings while the discharging end rests on two load cells, one cell on either side. Ropa says the weighing accuracy of this system is down to less than 100kg per truckload.

### Further details in a nutshell:

- » The battery master switch can now also be operated remotely.
- » The so-called “residual beet pickup” which is a blade that sweeps the last few tubers into the machine was modified for improved stability.
- » Each Maus 6 is connected to the myropa internet platform.
- » Shifting between the travel ranges is automatic now.
- » The Maus 6 is also available without a particulate filter for markets outside Europe.
- » Maus 5 production ceases in 2023.
- » Engine oil change intervals are frugal 1,000 hours.
- » A destoner is an option for the cleaning web.
- » All webs are re-adjustable now should they run off-centre.
- » Engine speed can now be controlled automatically as an option.
- » The cab lift is supported by an additional hydraulic ram.

## ROPA INNOVATIONS FOR POTATO AND BEET CROPS

### Manual planter



Ropa is currently testing a planter for chitted plant potatoes. Further machines of this type are to follow.

### Double finger comb



The Keiler 2 (German for “boar”) now boasts a new trash separation system; for the first time it has two finger combs that are arranged behind each other.

### Split lifting web



The pick-up on the Keiler 2 is now available with a split lifting web, a boon in heavy soil.

### Oppel wheels



Optional Oppel wheels are now available for the Tiger and Panther model.

### Summary

Ropa introduced the Maus 6 cleaner loader for the 2022 season. This boasts a wider and longer cab for more operator comfort and many new details including underfloor heating, sun blinds and a cool box. The Mercedes engine is slightly modified to comply with Emission Stage V. A new weighing system optimises the loading trucks to capacity.

**Sönke Schulz. Translated into English by trans-agrar.**