



  
**euroTIGER**  
V8-4

***ROPA***  
Superior class.



# Professional machines of superior class

## euro-TIGER V8-4

- ✓ user friendly and innovative
- ✓ harvesting the complete beet crop
- ✓ excellent reliability – robust construction
- ✓ large tank capacity – high daily performance
- ✓ reduced fuel consumption
- ✓ less wear and tear
- ✓ durable with a high residual value











## Technology at its best

The ROPA euro-Tiger V8-4 is the **most trusted and efficient sugar beet harvester** of its class. The euro-Tiger V8-4 power transmission of the 440 kW/598 hp

(Mercedes Benz V8 - with SCR-Cat and AdBlue) provides now **improved fuel economy** and **more powerful traction**. It operates **effectively and flexibly** on short

as well as on long beet fields due to its tank volume of more than 40 m<sup>3</sup>. A perfect blend of automatic tank loading and hydraulic **axle load control** provides optimal





traction and load distribution with, at the same time, an **outstanding maneuverability** in all harvesting conditions.

The new 800/70 R32 Ultraflex ty-

res at the front axle require only **1.4 bar air pressure** even by an absolutely full tank and offer superior soil protection.

The soil is protected along **with**

**improved ride stability and higher operator's comfort.**





# An appropriate defoliator for every requirement

Row sensor for automatic steering with maintenance-free suspension

## PIS - integral defoliator:

Mulched beet leaves are deposited between the rows. The beet field can be lifted up without "opening up the field", working off one end, **best recommended in normal conditions.**



**PAS – the ROPA all-round defoliator** (can be changed from the cabin for either integral topping or leaf ejection)

With the ROPA all-round defoliator you are ready **for all requirements**. Optionally, the shredded beet leaves are placed between

the rows or spread by leaf auger/leaf-spreader over the lifted area. You can **easily switch by pressing a button** in the cabin. To

harvest the beet leaves (for biogas or dairy) an optional leaf conveyor can be attached.





**PB2S - defoliator with leaf ejection (2 topper wheels)**

At the defoliator with leaf ejection the flail blows the leaf into the auger, which delivers it to the leaf-spreader. Then, the stepless

adjustable leaf-spreader scatters the chopped beet leaf left across the lifted field. We recommend this kind of defoliator especially for

**PB4S - defoliator with leaf ejection (4 topper wheels)**

areas with a dense weed growth.



# To harvest the whole beet crowns!

ROPA has further developed the sugar beet leaf remover.



Two rubber flail shafts rotating in opposite directions, remove the leaf and stalk from the crowns

ROPA defoliator PES is an alternative to well-proved and cost effective Micro-Topper

The newly developed defoliator with rubber flails from ROPA has independently hydraulic driven flails which allow **individual rotor speed control - unique system!**

Each rotor shaft can be adjusted at the height independently from the other. As a result, the operator can react quickly and effectively to different requirements due to

changing beet crops.

Various settings can be stored and accessed on the joystick using a memory function.

Generally, it leads to improvement





of the performance quality and cleaning results, and careful beet treatment at the same time.

The rubber flails remove the leaves from the sugar beet crowns.





# Beet, the whole beet and nothing but the beet...

ROPA's Micro-Topper increases your yields.



Optional:  
skids for the Micro-Topper



The topping shaft is used so high, that the leaf cuttings are remained on the beet.

## ROPA Micro-Topper - maximum revenue with no additional effort

ROPA Micro-Topper is the best practical solution that simultaneously meets the requirements of farmers, contractors and sugar mills! ROPA Micro-Topper pro-

vides the ability to harvest the **whole beet crowns** without tops. At reduced rounds per minute the topper is lifted so high that each beet crown is retai-

ned with just the leaf stalks remaining. Thus, the useful **life of defoliator cutter is increased** (less contact with the ground/stones), while re-





- ✓ Less topper height adjustments are required  
→ less fatigue for the operator



The comb of Micro-Topper detects the height of each beet head and "shaves off" the stalks.

ducing the fuel consumption. The comb of the Micro-Topper **follows each beet crown**, adjusting the trimming gap to the size of the crown, so that the **beet is not**

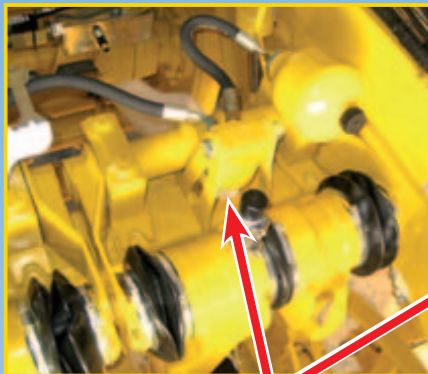
**cut too much**, removing the stalks and returning maximum yield. The intensity of the cut can be easily adjusted from the cabin. You may choose between topping and

"shaving off" leaves only (micro-topping).





The oscillating shares drive with spur gear and adjustable taper roller bearings.



Hydraulic stone protection, positioned on top, maintenance-free linear guide



Excellent view across the lifting unit -> the operator watches the beet row and the operation of the Micro-topper



### Non-jamming PR lifting unit with hydraulic stone protection

The PRh lifting unit is equipped with counter-rotating oscillating shares and **maintenance-free stone protection**. Lifting units with fixed row width are available for 6, 8 or 9

rows. We also supply 6-row variable units with 45 cm and 50 cm. The **900 mm large depth wheels** combined with the **intelligent three-point** suspension guarantee

accurate depth control of the lifter. Minimum maintenance costs are required thanks to **adjustable taper roller bearing** in drives and oscillating share drive.



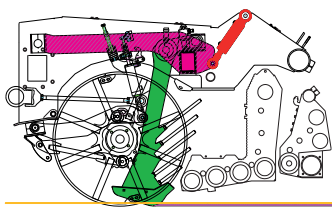
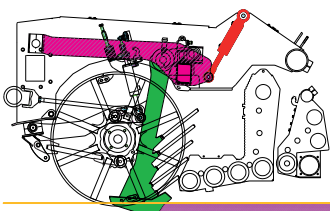


### New ROPA lifting share

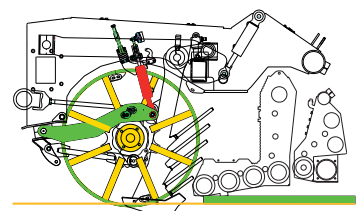
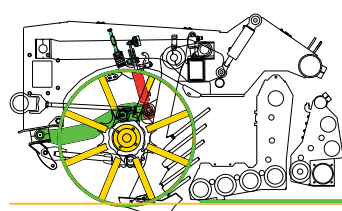
Share angle and share distance are optimally adjustable to six positions. The most careful handling of beet right from the start!



Hydraulic height adjustment of the share shaft



Hydraulic height adjustment of the lifting rollers







#### Operating console

- ✓ Joystick with integrated mini-joystick
- ✓ On-board computer with 2.8 times faster computing speed
- ✓ USB-data interface





- ✓ Mercedes V8-Diesel engine with 2800 Nm torque
- ✓ Drive with 12% more pump efficiency and 5% higher traction
- ✓ Intelligent three-point with integrated measuring system for more accurate depth control of the lifting shares
- ✓ Larger front tyres - only 1.4 bar at full tank capacity
- ✓ Improved cabin positioning
- ✓ Continuously adjustable speed of longitudinal and cross tank conveyors
- ✓ New lifting share with 6 different available positions
- ✓ Extended unloading conveyor for all standard models
- ✓  **Micro Topper** on all standard models



**ROPA**





### Beet tank of 40 m<sup>3</sup> capacity – flexible operation and sustainable soil protection

The euro-Tiger V8-4 offers a tank capacity of more than 40 m<sup>3</sup>. Thanks to the tank auger the back part of the tank is loaded first. This ensures an even load distribution

over the two rear axles relative to the tyre size. The front axle load remains constantly low. When the back area of the tank is full (ca. 80 % of the tank capacity) the tank

auger, controlled by **ultra-sound sensors**, reverses and fills the front area of the tank. The **tank load level** is shown at the colour terminal. It's a valuable help for the opera-





- ✓ Larger front tyres  
 → only 1.4 bar tyres pressure at full tank

tor, as when e.g. the display shows a load of < 50% he immediately knows that the tank has sufficient capacity left to take in the beet on the way back. The **stepless hyd-**

**raulically driven longitudinal and cross conveyors** are fitted with solid pin chains and sprung steel slats. High quality materials increase the conveyors' useful life

and, therefore, the profitability of the machine.





### Tank operating console

A button push is enough to activate the unloading automatics and the entire tank content of 40 m<sup>3</sup> is unloaded in less than one minute. Additional operator's ease is the memory function for two unloading heights.

### Unloading of 40 m<sup>3</sup> in less than 1 minute

It takes only 1 minute to empty the tank of more than 40 m<sup>3</sup> via the extended unloading conveyor. The unloading speed is continuously adjustable, therefore overloading

to a trailer driven alongside can be done easily. The extended unloading conveyor ensures accurate delivery even onto clamps of 10 m width. Two different automatic heights

can be saved for easy overloading or unloading.









### Transport and coupling system for the harvesters of the PR-XL series

For transportation of the lifting unit from the PR-XL series (8- or 9-row with different row distance) ROPA has developed completely new transporting and coupling

system. The (extremely) wide lifting unit is transported on the public roads in the air-braked trailer and towed behind the euro-Tiger.

Thanks to the euro-Tiger rear axle steering the trailer can easily be towed around tight bends and narrow roads.





# europa **TIGER** **XL**

V8.4



In order to suspend the lifting unit, the three-point suspension is lowered, retracted into the trailer nose, and slightly lifted. Then, the lifting unit is hung in the three

point suspension of the euro-Tiger, like the header of the combine harvester.

To secure it only two bolts have to be inserted. Then, hydraulics

and electronics are connected by means of quick couplers.





**euro**  
**TIGER** **XL**  
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### Efficiency and effectiveness with lifting units from PR-XL series

Significantly **higher area performance** with **reduced fuel consumption** leads to lower costs during the **profitable and effective sugar beet harvesting**.

At ROPA euro-Tiger with wide lifting unit from PR-XL series, the front axle of the Tiger can be equipped with even more wide and extremely soil protective 900/60R 32

or 1050/50 R32 Terra tyres. Less passes and maneuvers also contribute to better soil protection. Thanks to the possibility of overloading while driving the area perfor-





*Harvest simplified.*



Red River Valley, Minnesota/USA

mance of more than 3 ha per hour  
can be achieved under favorable  
harvest conditions.





# Technology at its best for your success.



RRG Weinviertel, 7 euro-Tiger



Agro Beta/Eichberg,  
3 euro-Tiger, 2 euro-Maus 4



ZRG Rheinhessen, 5 euro-Tiger, 3 euro-Maus 4



MR Hollabrunn, 5 euro-Tiger





RRG Laa/Thaya, 7 euro-Tiger



MR Zülpicher Börde, 4 euro-Tiger, 2 euro-Maus 4



RG Nordharz, 3 euro-Tiger





## Technical data: ROPA euro-Tiger V8-4

### Engine:

Mercedes Benz V8 diesel engine OM502LA with 2800 Nm max. torque, exhaust level 97/68/EG 3B (with SCR Cat and AdBlue), 440 kw (598 hp), harvesting revs. 1.250 rpm (operative up to max 1.650 rpm), fuel consumption indicator l/ha and l/h at the terminal. Fuel tank capacity: 1380 l, AdBlue 120 l, separate connection for tank filling

### Traction drive:

Continuous hydrostatic drive via 2-gear all-wheel drive.

1st gear 0 - 13,5 km/h

2nd gear 0 - 20 km/h, or 0 - 25 km/h (optional)

3 mechanically driven axles with differential locks, automatic axle displacement control for the 3rd axle, cross shaft axle support lock for front axle, automatic drive

and harvesting, load limit control, pressure switch-off

### Cabin:

New cabin installation, sound-proof and all-round tinted glazing with low horizon, heating and air-conditioning (automatic), operator console with colour terminal, joy-stick-operation, auto pilot, cruise control, engine control/machine diagnostics fully integrated in terminal, suspension Grammer comfort seat with seat heating, MP3-radio with audio system, holder for telephone, full-screen wipers, 2 LED internal lights, video monitor with standard reversing camera, yield indicator via ultra sound measuring system of tank load status

### Tyres:

1st axle 800/70 R 32

Optimal for PR-XL: 900/60 R32  
1050/50 R32

2nd axle 1050/50 R 32

3rd axle 1000/50 R 25

**Tank capacity:** Ca. 40 m<sup>3</sup>

**Loading/unloading height:** Up to 4.00 m

### Defoliator unit:

**PIS** with integrated flail and leave deflectors between the rows

Optional:

**PBS** with leaf spreading to the left and 2 topper wheels for 6 rows, 45 cm and/or 50 cm row width (optional 4 topper wheels)

**PAS** - ROPA all-round defoliator for 6 rows, 45 cm and/or 50 cm row width.

**PES** - defoliator with two rotors equipped with rubber flails, 2 topper wheels.

### Lifting unit:

PR-lifting unit, hydraulically driven:





6 rows and 45 cm or 50 cm row distance,  
optional PRh-V 45-50 cm variable  
PR-XL:  
6 rows, 30 inches  
8 rows, 45 cm, 50 cm or 22 inches,  
9 rows, 45 cm, 50 cm or 20 inches

#### **Cleaning:**

Infeed conveyor 800 mm wide, separation  
50 mm or 60 mm  
1st turbine 1.700 mm diameter/2nd and  
3rd turbine 1.500 mm diameter  
Elevator ring trace 900 mm wide

#### **Electrics/electronics:**

Internal net of 24 volts, 2 lights of 100  
amps. each, 32 super-beam operating at  
70 W each, 2 sockets of 12 volts for  
radio/telephone etc., CAN-Bus computing  
system with diagnostic for all elements  
connected to terminal, possibility of soft-  
ware update via USB interface

#### **Measurements:**

length: 14,95 m  
height: 4,00 m (transport setting)  
width: 3,00 m (6 rows at 45 cm row)  
13,30 m (6 rows at 50 cm row and  
45-50 cm variable)

#### **Standard:**

Central lubrication, data management  
on the terminal, incl. fuel consumption  
measurements, air-conditioning automa-  
tic, rear shelf with 2 integrated storage  
lockers (not for PR-XL)

#### **Optional:**

Widia-shares, 25 km/h version, turbine  
camera, unloading conveyor camera, 2nd  
LCD-colour monitor, seat heating, distance  
control assistant, quick oscillating shares  
motion, spring tin gates in turbines 1-3,  
quirl in 2nd turbine, leaf spreader with

stone protection, 4th axle (compulsory in  
Germany), xenon beam, 2 LED headlights  
at the rear part, Bluetooth-MP3-Radio,  
data printer, data output via USB, data  
input and output with task processing  
via USB, GIS-interface, GPS-driving speed  
sensor, leaf collecting equipment (only for  
defoliator with auger), additional hydrau-  
lic pump 45 cm<sup>3</sup> for extra drive, bio-  
hydraulic oil, limit indicator at diesel tank,  
pressurized air brake at transport vehicle  
for PR-XL lifting units and hydraulic fast  
coupling, chicorée equipment, contour  
marking package according to ECE-R 104

Correspond to TÜV, Trade and CE regulations. Subject  
to technical changes.

Existing protective covers have been partially dis-  
mantled for better imaging.  
The machine must not be operated without these  
covers!





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