

# ERQ

5175X



# GRAPELINER

## Series 5000



Perfection in the vineyard



High-performance | Reliable | Comfortable



The ERO Grapelin series 5000 features engines that meet the EU Stage V exhaust emissions standard. This means the grape harvester has the lowest emissions for its class on the market.





#### **Standard equipment:**

- Spacious, vibration-damped comfort cabin with Automatic Climate Control, radio/CD combination with USB socket and Bluetooth hands-free speakerphone, seat with pneumatic suspension, electrically adjustable and heated exterior mirrors, a roomy storage compartment and a electric cool bag
- Economical, electronically-controlled 6-cylinder engine (DEUTZ®), water-cooled, 129 kW/175 HP, Stage 5;
- Twin-Lock™ (Poclain) drive system improves climbing and increases safety even in difficult terrain;
- Five freely programmable harvesting routines and a washing program;
- Three-stage adjustment of beater amplitude;
- Hydraulic adjustment of the opening between the beaters from the driver's seat;
- Ultrasonic height display with memory function;
- Gradient display in percent;
- Speed control unit for uniform harvesting speed and results;
- Grape bin with a capacity of 2,200 l (2,600 l or 3,000 l as option) and side-tipping.

Please see pages 20/21 for an overview of standard equipment and options for both models.

# High-performance - in the vineyard and on the road



The ERO-Grapeliner 5000 provides high-performance grape picking of large acreages combined with excellent climbing abilities. Due to optimum position of the engine and grape bin, the low center of gravity allows machine harvesting even in difficult terrain.





25

20 / 25 km/h road speed (alternative)



The Automatic Steering System (option) allows the operator to focus on the fruit process in order to get the cleanest sample.



Lateral offloading enables faster grape bin emptying and perfect view to the bin and trailer.



Proven technology | latest design | new features



High quality grape harvesting: The unique leaf ejection system of the ERO-Grapeliner 5000, supported by the cross vent, eliminates up to 70 % of leaves before these touch the conveyor belt. This allows lower suction-fan revs for reduced juice and fruit losses and best-in-class samples.

Experience the unique overall efficiency of the ERO-Grapeliner 5000!

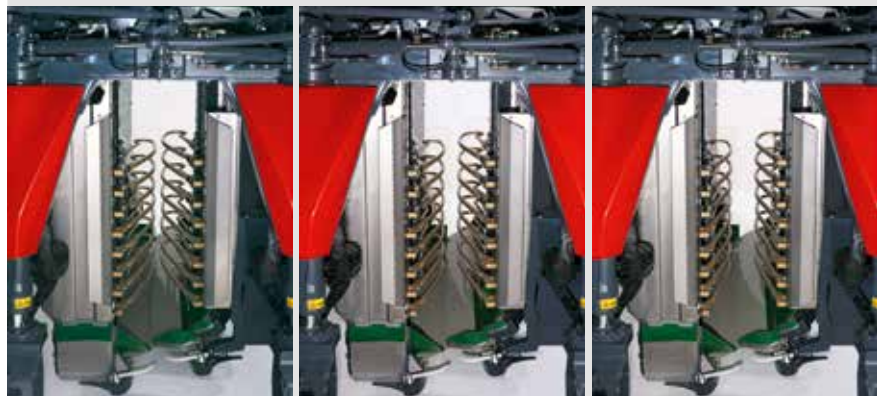




Extending the grape channel by two additional slats reduces fruit dropping to a minimum.



Single sided conveyor system; Cross wind towards the right-hand side of the machine; Angle adjustment of both scale tracks for optimum material flow.



Shaker mechanism with adjustable pinch and quick-release support lets you install additional rods in the vineyard - no tools needed.



## Outstanding pick



- Smooth operating harvesting head. Extraordinarily clean picking with lowest possible vibration and highest comfort for the operator.
- The single sided conveyor concept means less moving parts with simplified and lower-cost maintenance.
- Fast and easy access to all maintenance points





Electric lift for easy access and proper cleaning.



Improved lower suction fan with flexible cover.



## Extraordinary clean sample



- Proven destemmer with improved transfer of fruit from the cross belt into the basket;
- Less contamination at the top deck (reduced wash-down time);
- Non-slip top floor (solid base);
- Cross conveyor with cleaning scraper at the return pulleys for the best-in-class sample;
- Spacing between rollers of sorting table adjustable from the driver's seat.





From the cabin the driver has a good view to the destemmer and sorting table, and can make any necessary setting changes without delay



Reduced wash-down time by sealing the access to the destemmer, when not using it.



## The VITselect system: Nothing but grapes in the tank



The VITselect grape sorting system comes with an optional automatic basket switch which operates regardless of the tilt angle. This improves the distribution of picked grapes especially on steep slopes. The roller spacing of the sorting table can be adjusted from the driver's cab to match the grape size, improving overall harvest quality. The platform is sealed to facilitate cleaning.

The smooth cross conveyor belt with wipers ensures that only cleanly picked grapes reach the harvest bin. The shortened ejection channel on the upper suction blower is easy to clean.





Hydraulic adjustment of the roller spacing from the driver's seat.



Slope-dependent reverse of the basket turning direction for perfect distribution of grapes at the roller sorting table.



Just like a hand-picked sample.



## First class work space

The intuitive 10.4" color touchscreen allows all the most important parameters to be shown on-screen.



Glass cabin floor provides a clear view to the row.

The comfort cab provides a perfect view to all directions and includes features such as Automatic Climate Control, tinted windows, sun blinds and a USB port. An integrated electric cooler and easy-to-clean artificial leather interior surfaces add an even higher degree of comfort. With a volume of over 3 m<sup>3</sup> the ERO-cab is the largest cabin of any grape harvester on the market.





Ergonomic proportional joystick and improved arm rest design



Control elements integrated in the cab roof



Sun blinds



Large storage compartment and electric cool bag

- Seat with pneumatic suspension;
- Low noise level and lowest possible vibration;
- Camera system with two cameras shows views of the areas to the front and rear of the machine.



Easy-to-maintain | Easy-to-clean



The engine is easily accessible for maintenance work by opening the cover.





The lightweight row wipers can be easily and quickly removed and reinstalled for maintenance and cleaning.



The roller track underneath the conveyor belt reduces belt friction and wear. It can be easily pulled out for cleaning.



Simplified daily checks



## Main features in summary

The central comfort cabin provides an optimum view of the front wheels and the entry to the harvesting head.

The side-mounted grape bin is located in the middle, between the front and rear wheels. That has a positive effect on climbing ability.

The grape bin, with time-saving side tipping, is available in three sizes: 2,200 l (standard), 2,600 l and 3,000 l. The driver has a good view when emptying, even when the grape collection truck is small.

The suspension can be extended steplessly up to 75 cm. Slope compensation is also 75 cm.

A long wheelbase (3.25 m) ensures smooth running, and the low centre of gravity, stability.

The large storage compartment contains the fire extinguisher, which is included in the standard equipment, but also provides plenty of space for tools and spare beaters.

Three-fold cleaning of the collected crop with cross-flow jet, leaf rake and the lower suction fan combined with a further suction fan at the transverse conveyor at the top ensure a perfect harvest.

Steering angle of 90° gives a small turning circle.





15 work lights (LED as option) fitted as standard ensure a good view in twilight or by night.

Foldable, electrically adjustable and heated external mirrors with additional wide-angle mirror.



The generously glazed cabin provides the driver with the best possible all-round view.



Electronically regulated EMR<sup>®</sup> engine (DEUTZ<sup>®</sup>), 129 kW/175 HP, 6 cylinder, 6057 cm<sup>3</sup> capacity, stage 5.



The harvesting system is concentrated on one side of the machine, which reduces daily cleaning time considerably.

Twin-Lock™ (Poclair) wheel drive system ensures optimum traction and safe driving even in difficult terrain. An automatic lock in the first two drive gears provides permanent four-wheel drive.

38 cm wide slat opening makes driving into a row easier.



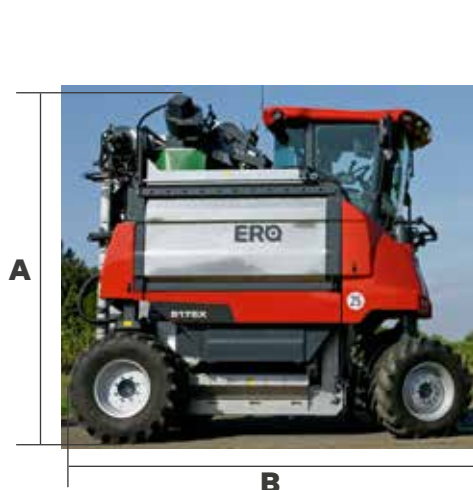
# Equipment and Options ERO-Grapeliner 5000

Equipment	Model	5175	5175X VITiselect
Vibration-damped comfort cabin with Automatic Climate Control, radio/CD with USB socket and Bluetooth, seat with pneumatic suspension, heating, ventilation, electrically adjustable and heated exterior mirrors, tool and storage compartments, electric cool bag and sun blinds.		✓	✓
Three leaf separation systems		✓	✓
Standstill monitoring of all harvesting units		✓	✓
Adjustable slat track with low-maintenance rubber bearings, replaceable plastic stop		✓	✓
Row stabilisers to prevent trellis shaking		✓	✓
Mudguards and engine hood with foldable quick-opening system		✓	✓
Removable roller track for easy cleaning		✓	✓
Electronically regulated EMR® engine (DEUTZ®), 6 cylinder, 6057 cm <sup>3</sup> capacity, stage 5 (kW HP)		129 175	129 175
20 / 25 km/h road speed (alternative)		✓	✓
LED-Lights package: LED-lighting technology for the entire working lights		○	○
Four wheel foot brake		✓	✓
Differential lock		○	○
Steep terrain protection device		○	○
Automatic steering		○	○
Post guiding		○	○
Post detection with automatic interruption of the shaker mechanism		○	○
Manual amplitude adjustment of the shaker mechanism in three stages		✓	✓
Hydraulic adjustment of the width between the beaters		✓	✓
Ultrasonic height display with memory function (height in cm)		✓	✓
Speed control unit		✓	✓
Camera system with two colour cameras		✓	✓
Central lubrication bar without pump		✓	✓
Central lubrication with one pump		○	○
Electric lift for suction fan		○	○
Magnet to remove ferrous materials from harvest		○	○
2,200 l grape bin for rows wider than 1.50 m (standard)		✓	✓
2,600 l grape bin for rows wider than 1.70 m		○	○
3,000 l grape bin for rows wider than 1.90 m		○	○
Harvest separator to empty the grape bin into two small containers		○	○
Tipping edge funnel to reduce length of tipping to 1,60 m		○	○
Tipping edge funnel to reduce length of tipping to 0,85 m		○	○
Discharge conveyor with 1,500 l grape bin		○	○
De-stemmer with plastic basket (perforation Ø 24 mm), speed adjustment of drum and rotor, electrical lateral extension for cleaning, hydr. angle adjustment with automatic level control		○	✓
Stainless steel basket for destemmer (perforation Ø: 1/3 25x35 mm, 2/3 25x25 mm)		○	○
<b>VITiselect:</b> Roller sorting table to remove vine stalks and leaves from the harvest, for gradients up to 20 %, incl. plastic screen with 24 mm hole diameter, hydraulically adjustable roller spacing		○	✓
Auto reverse of rotating direction for destemmer basket to use in slopes up to 30 %		○	○
<b>Tyre options</b>	1 - Front: Michelin XM108 420/65 R24, Rear: Michelin Agribib 16.9 R24 ( <b>approved for max. 20 km/h</b> )	✓	✓
	2 - Front: Continental 405/70 R24, Rear: Michelin XMCL 440/80 R24	○	○
	3 - Front: Michelin XMCL 340/80 R20, Rear: Michelin XMCL 400/70 R24	○	○
	4 - Front: Michelin Multibib 440/65 R24, Rear: Radial Alliance 480/65 R28	○	○
	5 - Front: Michelin Multibib 440/65 R24, Rear: Michelin Multibib 540/65 R24	○	○
	6 - Front: Michelin Multibib 440/65 R24, Rear: Trelleborg 600/55-26,5	○	○



# Technical Data ERO-Grapeliner 5000

Voltage, on-board electronics	12 V		
Battery	12 V / 170 Ah		
Maximum side slope compensation	75 cm / 36 %		
Fuel tank capacity	340 l		
Filling quantity, hydraulic oil	105 l		
Maximum steering angle	90°		
Minimum turning radius	4.20 m		
Wheelbase	3.25 m		
Tipping edge length standard	1.80 m		
Maximum unloading height of grape bin	grape bin 2,200 l	grape bin 2,600 l	grape bin 3,000 l
	2.80 m	2.80 m	2.55 m
Number of shakers	standard: 14 (2 X 7)		maximum: 22 (2 X 11)
Maximum beater zone	1.55 m		
Height inside harvesting head	1.90 m		
Lowest passage	2.05 m		
Highest passage	2.80 m		
Length of slat track	2.80 m		
Number of slats	28 left + 27 right		
Slat track passage width	38 cm		
Minimum harvesting height	15 cm		
Width of conveyor belt	33 cm		
<b>Weight</b>	<b>Without de-stemmer</b>		<b>With de-stemmer</b>
Weight, empty	8,970 kg		9,400 kg
Front axle	4,036 kg / 45 %		4,230 kg / 45 %
Rear axle	4,934 kg / 55 %		5,170 kg / 55 %
<b>Dimensions</b>	<b>2,200 l grape bin</b>	<b>2,600 l grape bin</b>	<b>3,000 l grape bin</b>
<b>A</b> - Minimum height with cabin, machine fully lowered	3.82 m	3.82 m	3.82 m
<b>B</b> - Overall length	4.50 m	4.50 m	4.50 m
<b>C</b> - Overall width of machine at height of grape bin	2.55 m	2.75 m	2.93 m
<b>D</b> - Dimension from machine centreline to outer face of grape bin	1.28 m	1.50 m	1.66 m
<b>Tyre options</b>	<b>Width</b>	<b>Track, front</b>	<b>Track, rear</b>
<b>E</b> - Tyre option 1	2.55 m	2.01 m	2.09 m
<b>E</b> - Tyre option 2	2.54 m	2.01 m	2.06 m
<b>E</b> - Tyre option 3	2.46 m	2.00 m	2.05 m
<b>E</b> - Tyre option 4	2.63 m	2.06 m	2.11 m
<b>E</b> - Tyre option 5	2.69 m	2.06 m	2.15 m
<b>E</b> - Tyre option 6	2.85 m	2.06 m	2.21 m







In 2018 ERO moved into new company buildings. The new site has a total of 120,000 square meters, of which 77,000 have been built up. The production hall alone covers more than 15,000 square meters. In addition, there are warehouses in the outdoor area, 2,200 square meters of office space and the approximately 700 square meter customer center with presentation and training rooms. The production halls are equipped with seven overhead cranes, each with a payload of up to 10 tons, and more than 40 swivel cranes. Where necessary, the halls are equipped with air extraction systems which exchange the room air completely four times per hour.





The entire set of buildings optimizes energy consumption and comply with the KfW 55 standard. Electricity is generated by a combined heat and power unit whose waste heat is used for heating the newly purchased powder coating plant. A photovoltaic system is installed on the roof. Only LED lamps were installed. A centrally controlled data bus system for managing all data streams in the company also further optimizes energy consumption.



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