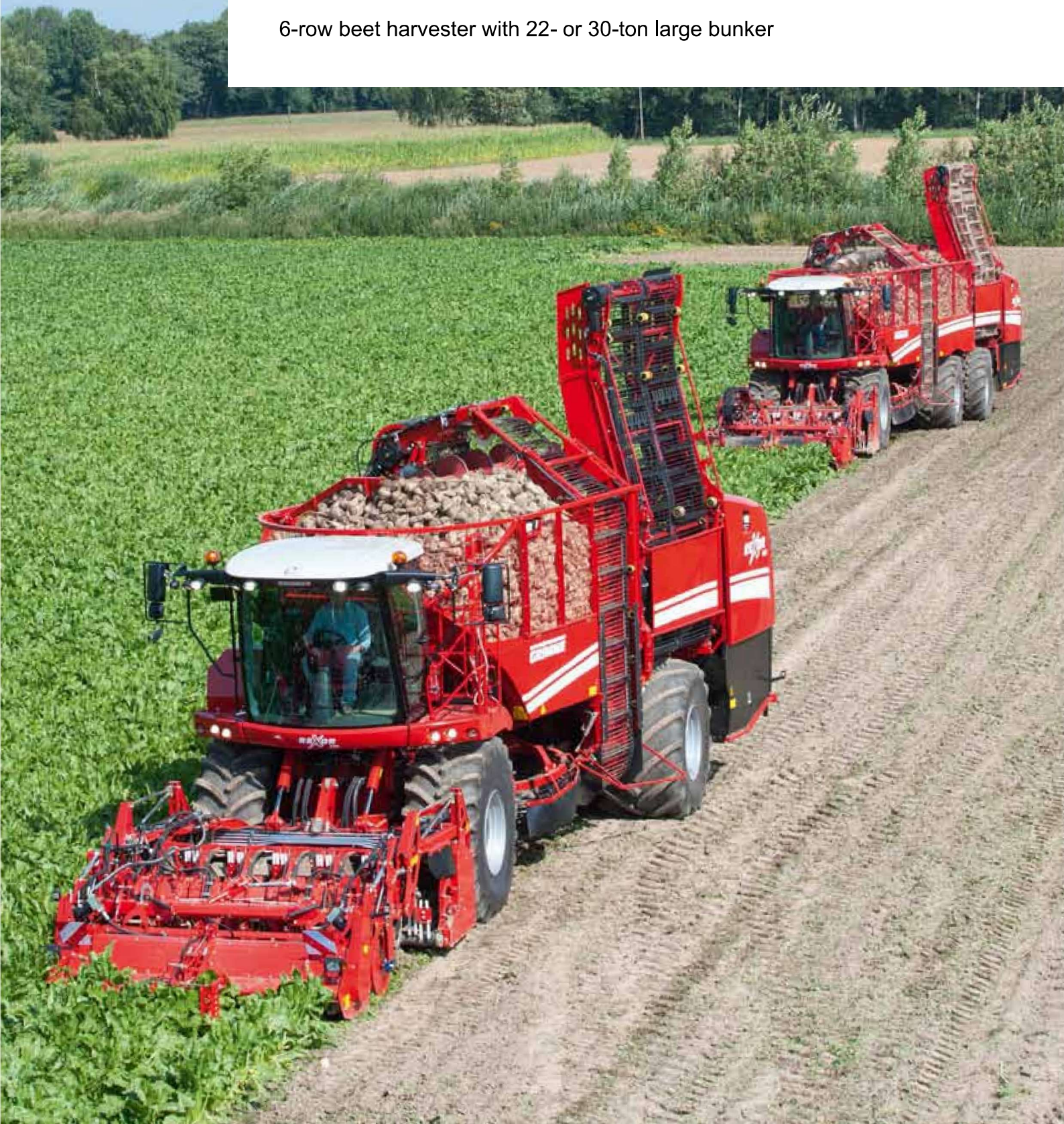


POTATO TECHNOLOGY
BEET TECHNOLOGY
VEGETABLE TECHNOLOGY

GRIMME
HARVESTING SUCCESS!

REXOR 620/630

6-row beet harvester with 22- or 30-ton large bunker



REXOR: The new dimension in beet harvesting!

Matched to your requirements – whether 22- or 30-ton large bunker – are your specifications for the development of state-of-the-art technologies. Combined with a high degree of performance, reliability and profitability

variability in the defoliating system range, the REXOR is the tool of your choice.

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Defoliating systems – chopping and scalping

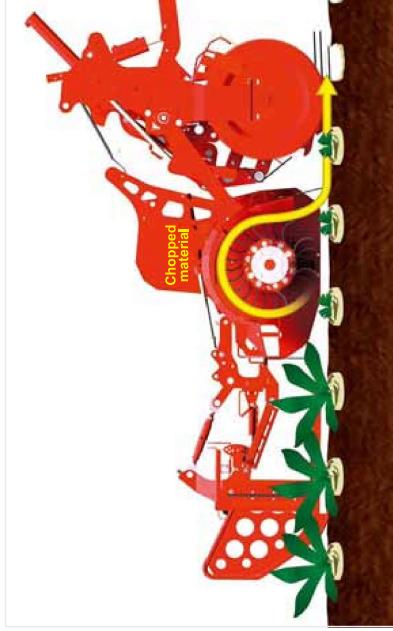
Grimme offers you three alternatives for reliably removing the leaf from the body of the beet. The inline topper with scalper is well-proven and used as a standard feature all over the world. In addition, you can choose between the inline multi topper with minimal kinds of digging conditions.



Universal application

Inline topper

Even under the most adverse conditions, the topper and scalper unit offers failure-free operation. The leaves are chopped, deposited inline between the rows and pressed onto the ground by the feeler wheels, so that the scalpers are able to work completely unhindered.



Powerful and stable

Defoliator shaft

The steel scoop flails convince with a long service life and high suction effect. The sturdy individual suspension makes shaft and flail insensitive to stones. The speed is infinitely variable between 900 and 1300 rpm.



Low-loss and clean

Scalper unit

The standard scalper unit (1) combines the familiar durability of the components with a fast reacting control unit for efficient scalping of the beets. The optional rotary scalper (2) permits an accurate crowning cut even in extremely weed-infested beet crops.



Minimally cut

Inline multi toppler

The multi toppler was specifically developed for minimally cut beets without green leaf bases. The special rotor shaft in conjunction with the minimal scalper meets this requirement.



Gentle defoliation

Multi shaft

A combination of steel and rubber flails (1) chops the beet leaves and cleans the beet crown such that the green leaf bases around the crown are removed. The minimal scalper (2) offers optimum conditions to carry out a thin crowning cut.



Crop-oriented

Optimum beet cut

The result are minimally cut beet without green leaf bases. Low weight losses for the beet grower and no problems with processing caused by leaf remnants result in a high profitability.



Intelligent harvesting

Inline front mulcher

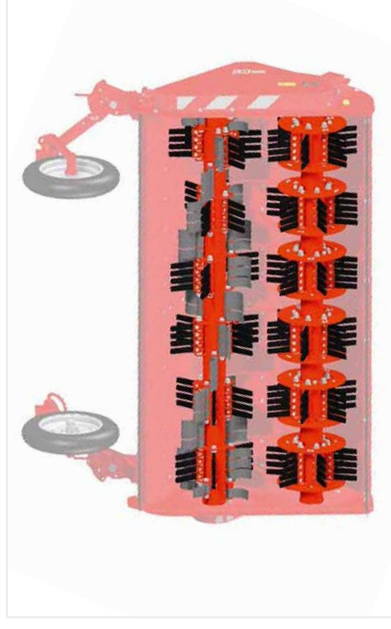
The defoliating system exhibits by far the lowest losses in the beet's crowning area. The FM defoliator is equipped with two flail shafts and can thus do without a scalper unit.



Complete defoliation

Multi and cleaning shaft

The multi shaft is fitted with a combination of steel and rubber flails. The short steel flails chop off the beet leaves while the longer rubber flails gently defoliate the beet crown from the rear. Rubber flails, which gently defoliate the beet from the front, are fitted on the cleaning shaft.



A clean business

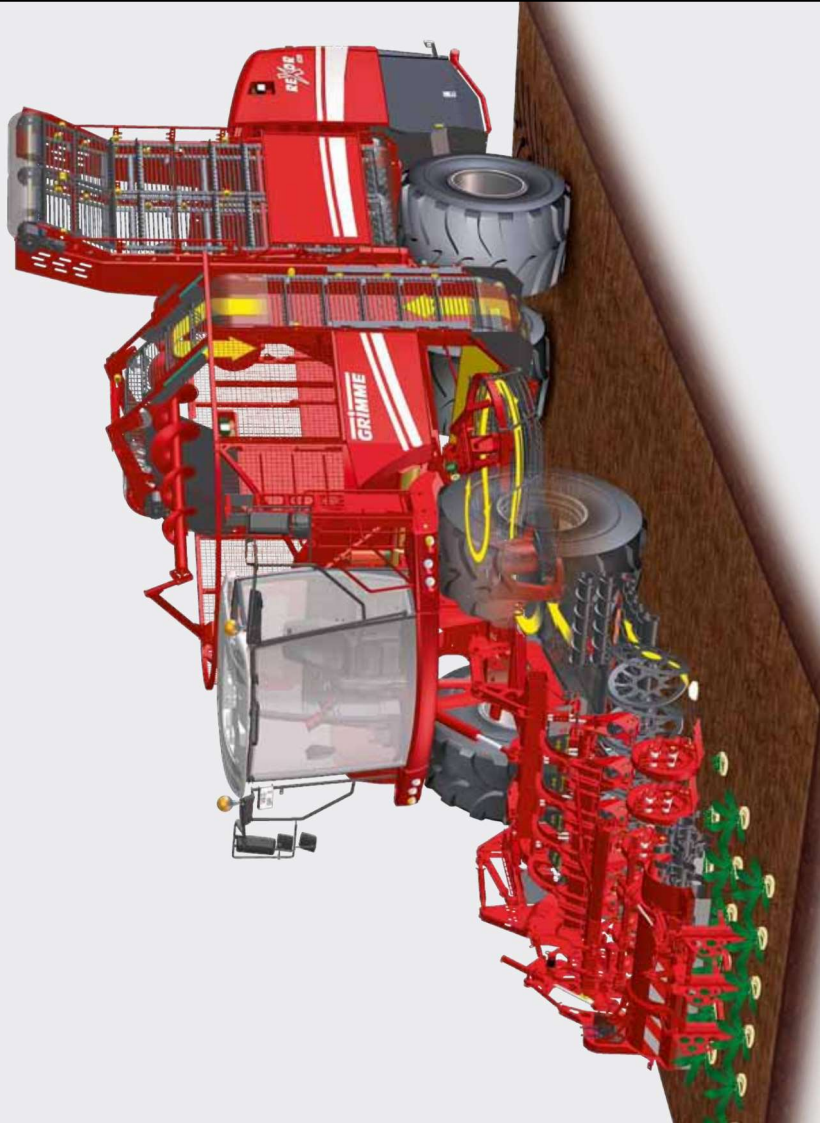
Inline system

The inline system deposits the chopped beet leaves between the beet rows, thus returning the nutrients to the place where they were absorbed by the plant. The beets are completely defoliated.



Oppel wheel digging system and cleaning

Starting with the hydraulically driven Oppel wheel digging system via the beet handling system and ending at the REXOR cleaning system – the entire beet harvesting technology is designed for highest throughput, low susceptibility to wear and an as gentle as possible handling of the crop.



Gentle on the crop

Oppel wheel

The infinitely variable and drive speed-dependent advance of the Oppel wheels actively, yet very gently, lifts the beet out of the soil. Particularly under wet conditions, this minimises the intake of soil and guarantees digging without obstructions. The Oppel wheels are made from HARDOX steel and are persuaded with their extremely long service life and are insusceptible to contact with foreign matter.



Full control of the workplace

Unobstructed view of the intake

With the excellent panoramic view of the intake unit combined with the video monitoring system, the driver has everything in view right from the start.



Loss-free digging

Laterally moving Oppel wheels

The hydraulically driven, laterally moving Oppel wheels (± 40 mm) permit an optimum intake of the beet.



Protected and adjustable

Share suspension

By default, the share brackets are fixed on the frame with rubber bushes, which absorb blows that are for example caused by stones. The pendulum swing of each share can be limited by means of a wedge adjustment.



Staying flexible

Row width adjustment

At a push of a button, it is optionally possible to hydraulically adjust the row width of the digging unit. This minimises setting times.



Effective and low-wear

Cleaning unit

From the roller table via the transport web and cleaning turbines up to the transfer elevator – the beet is effectively cleaned.



Optimum transfer

Paddle shaft

The paddle shaft gently transfers the beet to the roller table. Already there, the beet is effectively cleaned from soil and other trash.



Reduced wear

Roller table

The axial roller cleaning system consists of six pairs of cleaning rollers working approx. 15 cm above the ground. This improves sieving and clearly reduces wear. Optionally, the wear package is available with armoured rollers.



Easy and maintenance-free

Roller table drive

The roller table is driven by means of V-belts. One hydraulic motor each on the left-hand and right-hand side of the machine provides the drive. Automatic reversion of rotation in case of jammed stones is part of the standard equipment.



Highest throughput

Offset axle and transport web

The offset axle between the front wheels, which runs across the 90 cm wide transport web, combined with the 50 cm passage facilitates a 70 % higher throughput. The transport web automatically reverses rotation in case of jammed stones and is available with different web pitches. The web speed is infinitely variable. At the end of the transport web, the beet is transferred with the aid of a transfer roller onto the second cleaning equipment – the cleaning turbines.



Highest cleaning performance

Cleaning turbine unit

The second cleaning unit consists of three consecutive, amply dimensioned cleaning turbines with infinitely variable speed. The height of the guide bars is hydraulically adjustable. Cleaning turbine 1 can be separately adjusted, cleaning turbines 2 and 3 are equipped with a joint hydraulic adjustment. The sturdy cleaning turbine unit combines highest cleaning performance with extremely low wear costs.



For very heavy soils

Spring tines

The guide bars of all three cleaning turbines can be optionally replaced with spring tines. These are recommended for clay soils and additionally increase the cleaning performance.



The bunker system

Large-volume bunker capacities – 22 tons on the REXOR 620 and 30 tons on the REXOR 630 – offer you the freedom to dig even long plots of land in one-man operation. The Grimme unloading concept

carries even largest amounts of crop securely across the long and 1.80 m wide unloading web from the bunker into the up to 10 m wide clamp within a remarkably short time. The unloading web

with its transfer height of up to 4 m permits you to also use largely dimensioned transport vehicles in non-stop digging operations.



Even filling

Ring elevator and filler auger

The third cleaning turbine transfers the beet into the ring elevator. The latter transports the beet into the bunker for intermediate storage. The bunker filler auger distributes the beet evenly in the bunker.



33 m³ bunker volume

REXOR 620

The bunker volume of the REXOR 620 amounts to 33 m³ – up to 22 tons. The bunker is speedily emptied via the bunker floor concept consisting of longitudinal and cross scraper chain conveyor. The speed of longitudinal and cross scraper chain conveyor speed is controlled automatically.



45 m³ bunker volume

REXOR 630

With the 45 m³ bunker, which is able to hold 30 tons of beet, the REXOR 630 is the beet harvester with the largest bunker volume of its class. The bunker is emptied in the same manner as that of the REXOR 620.



The chassis – protecting the soil and manoeuvrable

Despite the vehicle size, main frame and chassis concept of the two REXOR models 620 and 630 unite a high degree of manoeuvrability, extremely high suitability for slopes and effective ground

compaction protection. The split main frame is equipped with an articulated joint with $\pm 35^\circ$ bending angle, thus making it possible for both models to achieve an inner turning circle of 7.5 m in conjunction

with the four-wheel steering. In addition, this chassis concept makes it possible to select low-impact travel left and right, thus protecting the ground from compaction by the machine.



Large volume wheels

Front axle

The front axle is equipped with wheels size 800/70 R38 having an outside diameter of 205 cm and exerting correspondingly little ground pressure. The front axle has a steering angle of $\pm 10^\circ$.



Maximum steering angle

Articulated joint

The articulated joint permits a maximum steering angle of $\pm 35^\circ$. Together with the steering axles, this provides the REXOR with unexpected manoeuvrability.

High stability on slopes

BaSYS

The active pendular support BaSYS provides for optimum stability of the overall machine under any conditions. On slopes, the rear vehicle automatically supports itself on the front vehicle.



Safe road drive

Support wheel wagon

For road drive, the support wheel wagon is coupled and uncoupled automatically from the cab by the driver. The load on the front axle is relieved, the machine is prevented from swinging up. In the EU, the support wheel wagon is a legal requirement.



Permissible axle load

Additional rear axle

The additional axle is available for the REXOR 620 and must be lowered during road drive so as not to exceed the permissible rear axle load. In the EU, the additional axle is a legal requirement



Increased productivity

40 km/h

With the Speedmatic 40 km/h for the REXOR 620 it is possible to reduce non-productive loading periods. 20 km/h are the default, but optionally, the REXOR 620 can also be approved for 25 or 32 km/h. The REXOR 630 is available with certification for 20 or 25 km/h.



Large steering angle

Middle and rear axle

The rear axle of the REXOR 620 has a maximum steering angle of $\pm 25^\circ$. The REXOR 630 has a maximum steering angle of $\pm 20^\circ$ at the middle axle and $\pm 32^\circ$ at the rear axle.

Ground compaction protection

Low-impact travel

During low-impact travel, the machine covers the entire surface. The articulated joint is used to swing out the rear of the vehicle to the left or right. On the REXOR 620, the rear axle, and on the REXOR 630 both the middle and rear axle, are once more aligned parallel with the front axle. Due to this, the harvester drives with offset track, thus clearly reducing the ground pressure by distributing it across the entire width.



Fuel-saving engines and convenient data management

The sophisticated hydraulic system, combined with the engine's innovative control electronics turn the REXOR 620 and the REXOR 630 into the most economical machine of its class. The more demanding the tasks, the more important is data

management and documentation. It is no longer only important to optimise one's own planning, but also to synchronise one's work with that of others. During the beet harvest this concerns for example the removal/transportation logistics or the beet factory. Time and effort

required for this are sometimes high. This is where the solutions of Grimme i-systems come into the picture: They reduce the time you spend on administration, rule out sources of error and support you in communicating your data.



Modern drive line technology

The drive concept

The sophisticated hydraulic system, in conjunction with the innovative control technology and a new generation of engines with SCR exhaust gas cleaning technology, forms the basis for an economical consumption and powerful operation.



Operational safety

Good accessibility of service points

The service platform, which can be accessed via a ladder, provides convenient access to all service points of the drive unit.



Fuel-saving

Automotive speed control

Depending on the machine's power requirement, the engine speed in field and road drive is always controlled in the engine's optimum torque range. Speeds of the digging and cleaning organs remain the same.



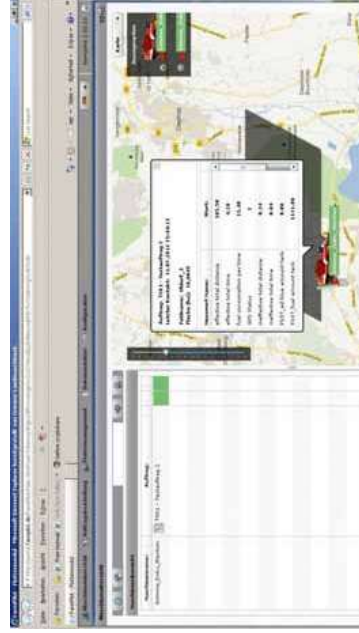
Online data and order management

ISOLOG

As soon as the machine is started, data transmission to the farmplot portal via GSM interface commences.

The machine operations manager transmits tasks online to the machine, which the machine operator then processes. At the same time, it is possible to track the status of tasks and useful machine data such as fuel tank contents online in the farmplot portal. With the aid of threshold reports it is for instance possible to generate a message to a fuel supplier if the diesel tank level is dropping. The data are also available online for further persons involved in the value added chain of the beet industry. The data can be retrieved and processed directly on mobile smartphones or tablet PCs by means of the farmplot application.

ISOLOG
farmplot



Easy task management

OPTIPLAN basic

With this option it is possible to enter details about the beet grower, the field name and driver name before starting to dig. The task is started with a keystroke and all relevant data such as times, distances, acreages and fuel consumptions are recorded. Once the task is completed, the data are printed via the printer that is incorporated in the machine.

OPTIPLAN

When unloading during digging, the driver can rely on the machine's automatic functions: Speed control, auto pilot and automatic filling function ensure an optimum utilisation of the machine. At the same time, data are automatically recorded and can be retrieved online via the farmplot portal.



Innovative details for long working days

The cabin offers every conceivable comfort to enable you to cope with long harvesting days without fatiguing and while keeping up full productivity. Automatic air condition, hands-free telephone and an upmarket CD-/MP3 radio are additional convenient features. The auto pilot reduces the load on the driver during digging. The necessary signals for steering the front and rear axle are captured

by leaf feeler and beet feeler. A computer system analyses the signals and reliably steers the machine, following the beet rows.



Comfortable operation

CCI operator terminals Two ergonomically arranged touch screen terminals offer a clear operation and monitoring of machine functions. In addition, the armrest offers the opportunity to quickly and directly operate and adjust functions via ride lever, joystick, rotary potentiometer and pushbuttons.



Reacting faster

Video system

The Grimme video system allows you to keep a tab on all working operations. However, should a problem arise, Visual Protect will directly switch the screen to where the problem has occurred. This gives you full control over all the functions of your machine.



Turning night into day

Working lights

To enable farmers to be productive even in darkness, the machines are equipped with a first-class lighting system for a perfect all-around illumination. Xenon and LED working light packages are optionally available.



The 6-row MAXTRON 620 with 22-ton bunker delivers outstanding results due to its special design with axial roller cleaning and rubber track and is unmatched when it comes to crop and ground compaction protection.



With its low wear costs and low fuel consumption, the REXOR, which is optionally available with 22- or 30-ton bunker, convinces with highest economic efficiency.



The 6-row ROOTSTER 604 with 4-ton bunker (1) is the efficient and economic alternative to the self-propelled harvester technology. It competently and soundly takes care of all tasks arising during the 1- or 2-phase harvesting method. For defoliating with front attachment, we provide the inline toppler with scalper FT 300 and the front mulcher FM 300. The haum toppler BM 300 (2) is the trailed version of our defoliating technology.



The Beetliner Compact with 12-ton bunker has a simple and sturdy design and is therefore the ideal starter model in our range of self-propelled beet harvesters.



The Cleanliner Mega (1) is equipped with a 10 m wide V-shaped intake table as well as a 15 m long transfer web. An intake table with clamp separator (2) is optionally available for clamps with a width in excess of 10 m. In road mode, the roller tables are folded behind the lowered cabin, thus providing a very clear view.



With its 8 m intake width and more than 13 m transfer distance, the Cleanliner Classic is the economic starter model in our cleaning and loading technology range.



With the BeetLoader (3) and the BeetBeater (4), Grimme offers optimum technology for biogas plant operators. With this technology, a competitive cost structure is reached, which allows energy beet to establish itself as further primary energy crop next to corn.



Technical data

	REXOR 620	REXOR 630
Length	13300 mm	15600 mm
Width	3000 mm at 450 mm or 18" row width 3300 mm at 500 mm or 20" row width or with hydraulic row width shifting	3000 mm at 450 mm or 18" row width 3300 mm at 500 mm or 20" row width or with hydraulic row width shifting
Height	4000 mm	4000 mm
Weight	26500 kg	31000 kg
Front tyres	800/70 R38, tyre diameter 205 cm	800/70 R38, tyre diameter 205 cm
Centre tyres	—	1050/50 R32, option: 900/60 R32
Rear wheels	1050/50 R32; tyre diameter 185 cm	900/60 R32, option: 1050/50 R32 (machine width 3300 mm)
Steering	Front axle, articulated and rear wheel steering for four-wheel steering and low impact travel right/left; max. steering angle front axle: $\pm 10^\circ$ Rear axle: $\pm 25^\circ$ max. articulation angle: $\pm 35^\circ$ Min. inner turning radius: 7.50 m	Front axle, articulated and rear wheel steering for four-wheel steering and low impact travel right/left; max. steering angle front axle: $\pm 10^\circ$ centre axle: $\pm 20^\circ$ rear axle: $\pm 32^\circ$ max. articulation angle: $\pm 35^\circ$ Min. inner turning radius: 7.50 m
Row width	45, 48 or 50 cm or 18 inch, 20 inch Option: Hydraulic row width shifting 45/50 cm (18"/20") or 48/50 cm	
Leaf topper	Leaf topper with inline system; Option: Front mulcher FM 300, multi toppler (shafts fitted with steel and rubber flails), variable toppler (shifting between inline leaf deposit and leaf ejection)	
Depth control	Electro-hydraulic bearing pressure control with 7 feeler wheels, depth can be adjusted from within the cabin	
Scalper unit	Series: Parallelogram-guided minimal scalpers with automatic adjustment of the crowning cut thickness; Option: Standard scalper unit	
Oppel wheels	Hydraulically driven and laterally moving Oppel wheels with ± 40 mm pendulum swing	
1st cleaning unit	Roller table consisting of 6 cross rollers with reversible extracting unit and 4 short lateral feed rollers	
Transport web	90 cm wide main web with 50 cm high main web channel	
2nd cleaning unit	Cleaning turbine cleaning with three turbines ($\varnothing 1$. turbine: 1700 mm / $\varnothing 2$. and 3. turbine: 1500 mm), infinitely variable speed adjustment, infinitely variable height adjustment of the guide bars on all cleaning turbines; Option: Spring tine equipment for the cleaning turbines	
Bunker filling	Ring elevator with infinitely variable speed adjustment, filler auger with automatic bunker filling	
Bunker contents	33 m ³ / approx. 22 tons	45 m ³ / approx. 30 tons
Unloading elevator	1800 mm wide; maximum unloading height up to 4000 mm, long unloading web for up to 10 m wide clamps	
Bunker emptying	Longitudinal and cross scraper chain conveyor, unloading web with infinitely variable unloading speed, automatic control of the scraper chain conveyors	
Motor	Mercedes-Benz BR 1300 with 390 kW / 530 PS, Digging speed 1150–1500 rpm	Mercedes-Benz BR 1500 with 460 kW / 625 PS, Digging speed 1150–1500 rpm
Fuel tank	1300 l nominal volume	1300 l nominal volume
Type of drive	Fuel-saving automotive driving with speed adjustment, cruising speed 20 km/h; Option: 25 km/h (liable to registration), Option: 40 km/h Speedmatic (liable to registration)	Fuel-saving automotive driving with speed adjustment, cruising speed 20 km/h; Option: 25 km/h (liable to registration)
Operation	Control unit consisting of 2 x CCI colour touch screen, ride lever, joystick box and numerous direct access keys and rotary potentiometers	
Comfort package	Climatronic, air-suspended deluxe seat, electro-pneumatically folding mirrors, audio system with CD-/MP3 player and prepared for Bluetooth mobile telephone system, Visual Protect (CAN-Bus controlled) video monitoring system with 3 cameras and colour monitor. Option: Xenon working light package (4 x front), 4 additional cameras for bunker, cleaning and Oppel wheels, comfort package cabin (seat heating, side wipers, refrigerated compartment), OPTIPLAN basic – data capture on the machine with data printer, ISOLOG online task management	

No claims can be raised in respect of texts, illustrations, technical specifications, dimensions and weights, equipment as well as performance specifications. They are approximate and non-binding. Changes in the course of technical enhancement are possible at any time.



Download our contact details onto your smart phone quickly and easily by means of the QR code!

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