

POTATO TECHNOLOGY
BEET TECHNOLOGY
VEGETABLE TECHNOLOGY

GRIMME
HARVESTING SUCCESS!

Trailed potato cup planters series GL

GL 430, GL 660, GL 860 and GL 860 Compacta



Harvesting success starts already in the spring

The new models of the trailed GL-series are a perfect combination of proven reliability, performance and variability. This includes especially the adaptation of the machine to your requirements, outstanding accuracy in the field due to optional equipment with GPS-steering and our reliable planting element for an optimum planting of the tubers. But

there is still something else that makes planting with the GL-series easier for you: the innovative Grimme special equipment. This includes for instance the fertiliser box, the equipment for planting in separated beds or the 5 in 1 cultivation and planting combination, that allows five operations to be completed at once. Machines

without final ridge shaping are by request available with a deep hopper. The GL-series is optionally available with the ISOBUS compatible control terminal CCI 200, the operating concept of which can be used universally for several manufacturers.

The all-rounder

GL 430

Thanks to its modular design, the 4-row trailed potato planter with 3-ton hopper can be adapted to any output and requirement. Whether with liquid chemicals attachment, fertiliser box or in combination with an active soil cultivation attachment.

The potato planter can be optionally equipped with cage roller or shaping board. This facilitates an optimum adaption to the prevailing soil conditions.

A variety of hopper variants is available to choose from and the machine can also be equipped with a moving floor hopper, so that early potatoes can be planted at an optimum point in time.



Variety and capacity

GL 660

The 6-row potato planter with 6-ton hopper and optional fertiliser box and / or chemical attachment is geared for a high acreage performance.



For large fields

GL 860

This 8-row potato planter with 6-ton hopper is designed for farms with long fields. An end-tow kit is available for a safe road transport.



For areas with smaller fields

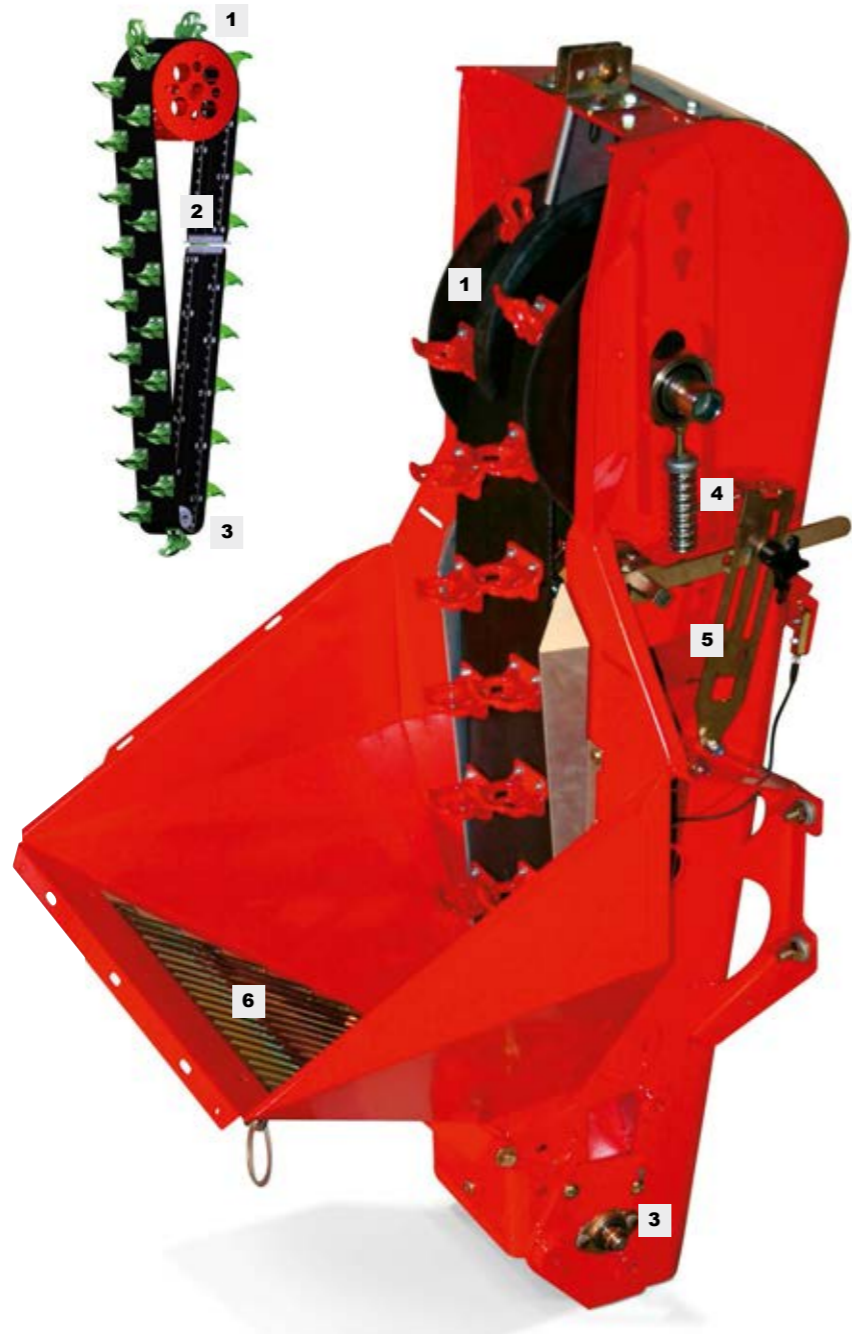
GL 860 Compacta

With only 3.30 m transport width, this 8-row, hydraulically foldable potato planter with 6-ton hopper suits especially farms with smaller fields, agricultural contractors or machine cooperatives.

Performance and precision

Our planting element

- (1) The large diameter upper pulley ensures a positive drive and safe delivery, even with long potatoes
- (2) Reinforced guide ribs behind the belt achieve a reliable deflection at the upper pulley.
- (3) The smaller bottom belt pulley guarantees a quick opening and thus accurate planting.
- (4) The elevator belt with quick clamping device can be tensioned or released in short time without tools.
- (5) The mechanical vibrating panels behind the cup belts reduce doubles in the cups. An electrical operating vibrating panel is available as an option to increase the operating convenience.
- (6) Optionally, it is possible to use grills instead of a stainless steel lid, thus preventing soil builds up in front of and inside the cup.



The original!

Equipment features

- (1) Whichever tubers you decide to use – with the differently sized exchangeable inserts and planting cups it is possible to plant the most different types of potatoes. With their round, narrow edges, they gently scoop the potatoes from the hopper.
- (2) In order to provide a better control you have a good view of the cups at all times.
- (3) The large funnel-shaped inlet makes it possible to reliably plant long, large potatoes.
- (4) The quick clamping device for convenient tensioning, changing and cleaning of the elevator belt.
- (5) Chain case and the convenient planting distance adjustment in 27 levels offer good accessibility.
- (6) For unloading, the stainless steel lid or grill (option) can simply be opened wide manually.
- (7) / (8) For generating spraying tracks or V-shaped headlands, the planting elements can be individually switched off mechanically or even more conveniently electro-mechanically without leaving the tractor.

High planting accuracy

Furrow opener

(1) The depth control of the **standard furrow opener** that is guided in the parallelogram is carried out by one feeler wheel each for use on optimally prepared soils.

(2) With its narrow design, the **fixed stone furrow opener** ensures that potatoes are planted evenly even in stony soils.

(3) The **stone furrow opener in the parallelogram** can be used under even stonier conditions due to the suspension that is separately guided in the parallelogram.

(4) With its narrow and steep side flank, the **furrow opener that is trailed** in the parallelogram creates a very accurate furrow, thus preventing the tuber from rolling away. The trailed design makes the depth control very accurate.

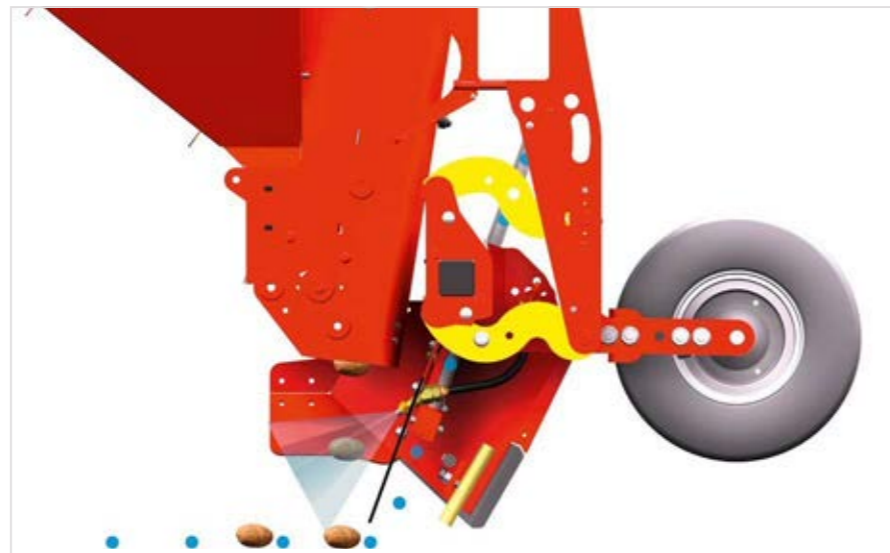


No sticking

Granulate and liquid chemicals

Optionally, the Grimme furrow openers can be equipped with applications for simultaneous use with granulate and liquid chemicals.

This ensures that granulates can be used without sticking.



Accurately dosed

Adjustable fertiliser delivery

It is possible to adjust the delivery of the fertiliser belt to determine how deep and how far away from the side of the tuber the fertiliser is placed, thus reacting to differences in sort and to fertiliser types for an optimum stimulation of tuber growth.



Under any conditions

Disc outlets

Exact placement is optionally carried out via disc outlets with a diameter of 400 mm or 500 mm for blockage free working under any conditions.



Combined plant protection

(1) Spreading with the approved granulate caster into the open furrow makes it possible to use GoldorBait and other granulates.

(2) The optional mounting kit with 90° angle nozzle makes it possible to treat the furrow with approved pesticides without wetting the tuber.

Ideally suited for chitted seed

Moving floor hopper

For all who want to benefit of the head start offered by chitted seed, Grimme offers a long moving floor hopper. The long floor offers you more time to gently pour following tubers onto the feeder belt.



Convenient work place

Pallet storage

The comfortable platform behind the moving floor permits an ergonomic filling of the moving floor hopper. Loading the machine with pallets allows for a quick change at row ends.



Extension of the planting period

Pallet storage in combination with ridge shaping

The modular construction of the GL 430 makes it also possible to combine it with hopper, pallet storage and shaping board, so that potatoes can be planted both at the earliest possible point in time as well as during the main planting season.



Increasing productive working times

Filling

In order to minimize the down times, the potato planter can be filled with front end loader or feed elevators.



Final ridge shaping

Shaping board

Ridges are constructed already in front of the wheels by means of the 510 mm covering discs. Due to the following shaping board, the ridge is given its final shape. Loose, yet smooth.



Stimulate growth

Cage roller

Ridge shaping with the cage roller facilitates an increased water absorption in particular on light soils, as well as a more stable ridge, also on irrigated surfaces.



Increased volume

XL shaping board

For even larger ridges with increased volume, Grimme offers the XL shaping board. In particular on heavy soils, the tubers remain dry for longer thanks to the deeper furrow.



Increasing performances under separated conditions

Off-set

To increase the performance under separated conditions the GL 430 can be equipped with 2 large wheels (12.4-24 AS), a steering drawbar and a steering axle. Off-set driving will clearly increase performance.



Bed planting

Ridge shaping

- (1) The shaping board is divided into 2 x 2. Thus it is able to individually react to height differences in every bed.
- (2) The soil retention plates are made of durable V2A and provide for an optimised soil flow so that an adequate amount of soil is available for ridge shaping.



Combinations for complete ridge shaping

Cultivator in mounting kit

The cultivator's working depth can be hydraulically adjusted in an infinitely variable manner without influencing the planting depth of the tubers.

The Grimme Rota Tiller GR 300 is mostly used in heavy soil conditions. The power harrows from Lemken and Amazone are ideally adapted to lighter soils and stonier conditions.

- (1) Mounting kit with Grimme Rota Tiller GR 300
- (2) Mounting kit with Lemken Zirkon 10
- (3) Mounting kit with Amazone KG 3000 Super



Soil cultivation

5 in 1 planting combination

(1) Grimme rotary tiller GF 4 in the tractor hydraulics. For a very intensive soil cultivation on heavy soils.

(2) Cultivator with depth loosening tines in the tractor hydraulics. Can be used to deeply loosen the soil before creating the following ridges on medium soils. Very flexible handling due to quick mounting and dismantling of the cultivator.

(3) Very long cultivator, e.g. spade cultivator in the tractor hydraulics. The goose neck facilitates very narrow turning manoeuvres without the cultivator colliding with the potato planter.



Hopper filling

Flat hopper

The 6-row GL 660 can be used both conventionally on cultivated soil and also on separated fields.

The flat hopper can be filled by means of suitable loading machines. Due to the ridge shaping equipment that is arranged underneath the hopper, direct filling from the trailer is not possible.



Direct hopper filling from the trailer

Low hopper

(1) With the low hopper it is possible to fill the machine directly from the trailer.

(2) The curved shape and the straight contact area ensure that the hopper is adequately filled.



Ridge shaping

Shaping board with tine frame

Ridge shaping is carried out according to the same principle as for the GL 430. The large cover discs construct the ridge; the shaping board is responsible for final ridge shaping.



Ridge shaping on light soils

Cage roller with spring loaded ridging bodies

The potato planter with spring loaded ridging bodies for ridge shaping – including separately suspended, adjustable cage rollers for lighter soils and improved water absorption.



Standard chassis with pivot axle

Optional hydraulic steering axle

For the use with satellite-controlled GPS-steering, Grimme offers an axle steering. One pair of wheels each is connected by means of a tie rod.



Minimising soil pressure

Chassis with 8 wheels

To distribute the weight of the potato planter with full hopper to as many wheels as possible, Grimme optionally offers a chassis with 8 wheels for the GL 860.



For high yield in areas with smaller fields

The new developed 8-row folding planter GL 860 Compacta increases output and provide quicker travel from field to field. A machine especially for areas with smaller fields as with the innovative compacta-folding system the necessity of an

off-set drawbar or extra transport trailer becomes void. This machine unites all the advantages of a trailed 8-row potato planter and at the same time offers a particularly high output, as time-consuming turning manoeuvres are reduced. A comprehensive

list of features with different hopper variants and shaping boards makes the machine particularly attractive for agricultural contractors, machine cooperatives and individual customers.



With 8 rows onto the road

Fully automatic folding process

For road transport, the two outer planting elements are hydraulically folded in. It also folds in the shaping board or cage roller (option) and lowers the 6 ton hopper. The machine has a unique telescopic drawbar to ensure stability on slopes and agility of the machine. The drawbar retraces automatically for road transport.

Hopper filling

Flat hopper

In combination with ridge shaping equipment or loosening tines, it is no longer possible to fill the hopper directly from the trailer.



Direct hopper filling from the trailer

Low hopper

If the machine is used conventionally without final ridge shaping, it can be optionally equipped with a low hopper which allows fast filling from tipping trailers.



Effective planting

Hydraulically driven planting elements

For an accurate planting of the potatoes, the reliable Grimme planting elements are put to use. Because of the folding mechanism, the cup belts are as standard hydraulically driven, with one oil motor each driving the two planting elements on the left, the four in the centre and the two planting elements on the right.



Relief for the driver on long working days

Automatic tipping hopper

A sensor in front of the planting element captures the fill level in front of the planting cups. A brief lifting and subsequent lowering of the hopper ensures an optimum and gentle filling.



Ridge shaping on light soils

Cage roller with spring loaded ridging bodies

The potato planter with spring loaded ridging bodies for ridge shaping – including separately suspended, adjustable cage rollers for lighter soils and improved water absorption.



With permission for road transport

Transport width of 3.30 m

To make a fast travelling from field to field possible, the machine can be folded to a width of 3.30 m.



Control systems: everything in view – and under control

The terminals are the interface between man and machine. The simpler and clearer their layout, the easier the operation. With an intuitive control terminal from Grimme you always

keep track even if it is necessary to make several adjustments at once while a work process is still ongoing. Your benefits are obvious: You are able to make the most of your

machines at any time. What's more, you are not unnecessarily detracted and work safety is increased.

ISOBUS compatible machine control

CCI 200

The DLG award winning enhancement of the Visual Control terminal. The CCI 200 is equipped with all functions of the VC 50 – and many additional advantages, among others with an even larger, anti-glare touch display (8.4") and is completely ISOBUS compatible.



Machine control with touch screen function

VC 50

Colour monitor with touch screen function, easily understanding symbols (pictograms) and multi-functional turning knob. The VC 50 is a professional terminal with comprehensive special functions, fully programmable and with extensive diagnostic functions for the machine.



Standard terminal for machine control

GBT 850

From miss indicator, shaker with infinitely adjustment and hectare meter up to power switch-off at row ends: With the clearly laid out and easy to operate GBT control terminal all important functions can be quickly checked and adjusted from the driver's seat.



Everything in view all the time

Grimme video systems

The Grimme video systems, consisting of high-quality colour monitors, colour cameras, special cables and multiplexers, have been specially designed for the harsh operating conditions in agricultural machines. The driver is even able to program camera sequences, thus saving himself the tedious manual shifting process.





Technical Data

Dimensions with standard equipment	GL 430	GL 660	GL 860	GL 860 Compacta	
	Standard / with front frame	Standard / with front frame	Standard / with front frame	Field	Transport
Length					
without shaping board	5500 mm / 6250* mm	4980 mm / 5720* mm	4980 mm / 5720* mm	5460** mm	6600** mm
with shaping board	5700 mm / 6400* mm	6260 mm / 7000* mm	6020 mm / 6760* mm	6185** mm	7085** mm
with cage roller	5950 mm / 6700* mm	5990 mm / 6730* mm	5990 mm / 6730* mm	6270** mm	7410** mm
with spraying track lever	6350 mm / 7100* mm	6660 mm / 7400* mm	6660 mm / 7400* mm	6500** mm	8200** mm
Width at RW 75 cm	3290 mm	4800 mm	6200 mm	6200 mm	3350 mm
Width at RW 90 cm	3890 mm	6200 mm	7500 mm	7350 mm	4000 mm
Height	2200 mm	1980 mm	1980 mm	2385	3660 mm
Filling height deep hopper	800 mm	900 mm	900 mm	1855	2260 mm
Filling height flat hopper	1750 mm	1980 mm	1980 mm	2070	2480 mm
Rear projection					
with shaping board	370 mm	1040 mm	1040 mm	240 mm	
with cage roller	884 mm	1010 mm	1010 mm	810 mm	
with spraying track lever	1287 mm	1440 mm	1440 mm	640 / 1250*** mm	
Empty weight	3200 kg	3800 kg	4200 kg	5110 kg	
Low hitch	Towing eye	Towing eye	Towing eye	Towing eye	
Number of rows	4	6	8	8	
Row width	75–91.4 cm	75–91.4 cm	75–91.4 cm	75–91.4 cm	
Hopper capacity	3000 kg	6000 kg	6000 kg	6000 kg	
Wheels	11.5/80-15.3	12.5/80-18	12.5/80-18	9.5-24 AS	
Power requirement	from 108 kW	from 75 kW	from 80 kW	from 108 kW	
Tractor hydraulics					
required control valves					
single acting	2	2	2	1	
double acting	1	1	1	–	
Oil performance	34 l/min	34 l/min	34 l/min	45 l/min	

* With front frame

** With long drawbar (+1030 mm)

*** Projection with cage roller

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.



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