

**GRIMME**  
HARVESTING SUCCESS!

# GT 300

The new special class: 3-row, trailed elevator harvester



# GT 300: the new performance class

The new trailed elevator harvester GT 300, harvests one row more with every pass. Advantage – this simply means 50% more performance! The operator has a clear view of the digging units and the large sieving areas due to the proven frame and drive design. Grimme ensures the highest impact force and best results based on our

innovative share depth guidance TERRA-CONTROL, which is gentle to the harvest and maximising yield – and thanks to the separators MULTISEP and the high-performance double MULTISEP, harvesting is possible on any type of soil. Harvest success with the GT 300, because it gets more done.



# For your maximum success: the new MAXI-Bed system

Basically there is a difference between two cultivation systems, the traditional system to plant the potatoes in rows and the so-called bed-separated system. With the latter method, two rows are planted into a previously separated 1.8 m wide bed and

harvested in the fall with a two-row machine. Allied to this, vegetables are cultivated on 1.5 m wide and 1.8 m wide beds. With the new MAXI-Bed system, a 2.7 m wide bed is formed and three rows of potatoes are planted in it. For this new system,

Grimme has developed the new bed former BF 300, the soil separator CS 240 and the soil tilla RT 280, the planter GL 33T and the elevator harvester GT 300.

## MAXI-BED SYSTEM

### Advantages of the MAXI-Bed system



1. 10% higher net cultivation surface and hence higher yield
2. 50% higher hectare performance due to the 1.5 times wider bed
3. Improved water management due to wider beds and less traffic in the beds
4. Much higher seasonal performance than regular system resulting in a reduction in operating costs
5. Shorter time for transport vehicles in the field, leading to higher impact logistics
6. Unproductive turning times on the headland are considerably less
7. The MAXI-Bed system can also be used for potato growing
8. Less edges for damaging rows

#### Comparison between conventional systems and the MAXI-Bed system:

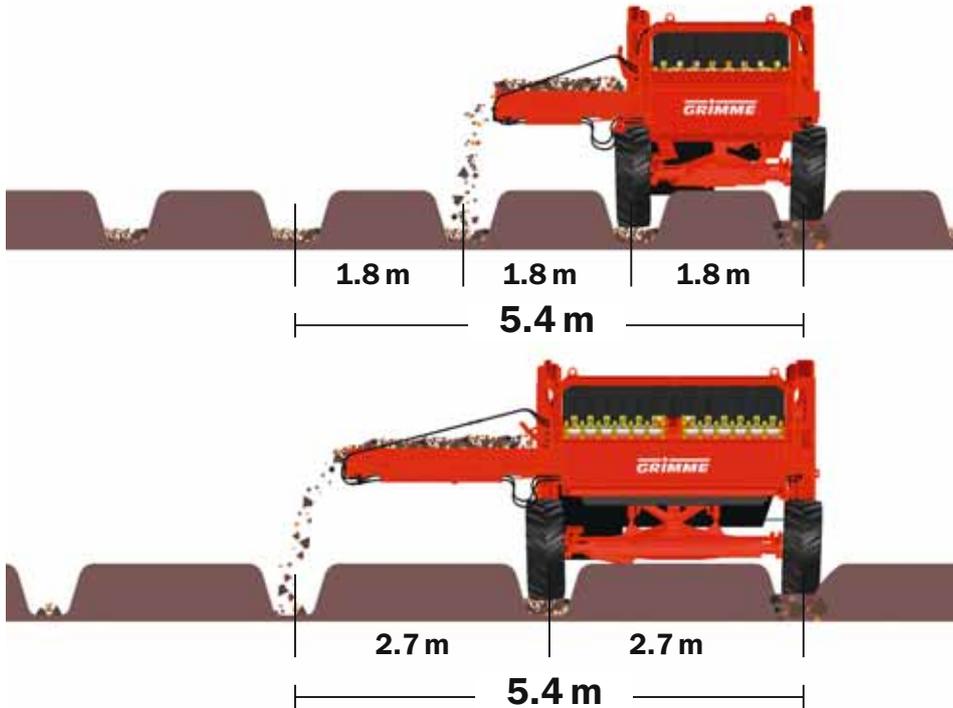
Instead of 1.8 m track width, the MAXI-Bed works with a width of 2.7 m. This reduces passes. The number of plants which grow under different light conditions at the edge of the bed is reduced considerably. Therefore, the MAXI-Bed ensures more homogenous goods.



GT 300: This machine "makes a great impression" – not only for potatoes but also for numerous other vegetables.



## Grimme machines for a new cultivation system: the MAXI-Bed!



The MAXI-Bed places proven system steps onto a new, wide basis. Machines widths are aligned during bed forming, via separating (1) and planting (2) all the way to the harvest. They provide 50% more surface yield during each work sequence.

**MAXI  
BED**



CS 240 (1): Sieve the stones and crush the clods: This gives an evenly aerated bed and will provide optimal growth conditions for potatoes and other vegetables – and this in a whole new width.



GL 33 T (2): The new 3-row planter for the planting of potatoes in 3-row bed.

## Combining the proven and the new: 4-row planting and 3-row harvesting



Real life shows that it works: 4-row planting with GPS technology (1) ensures exact, even row spacing. This ensures harvesting in 3 rows.



Harvesting with the offset system: the tractor drives over 2 instead of 3 rows (2), the GT300 continues offset behind the tractor and therefore harvests an additional row to the left of the tractor.

Avoid lateral forces on the machine: The wide tractor track (3) drives over 3 rows, the GT300 follows centered behind the tractor.



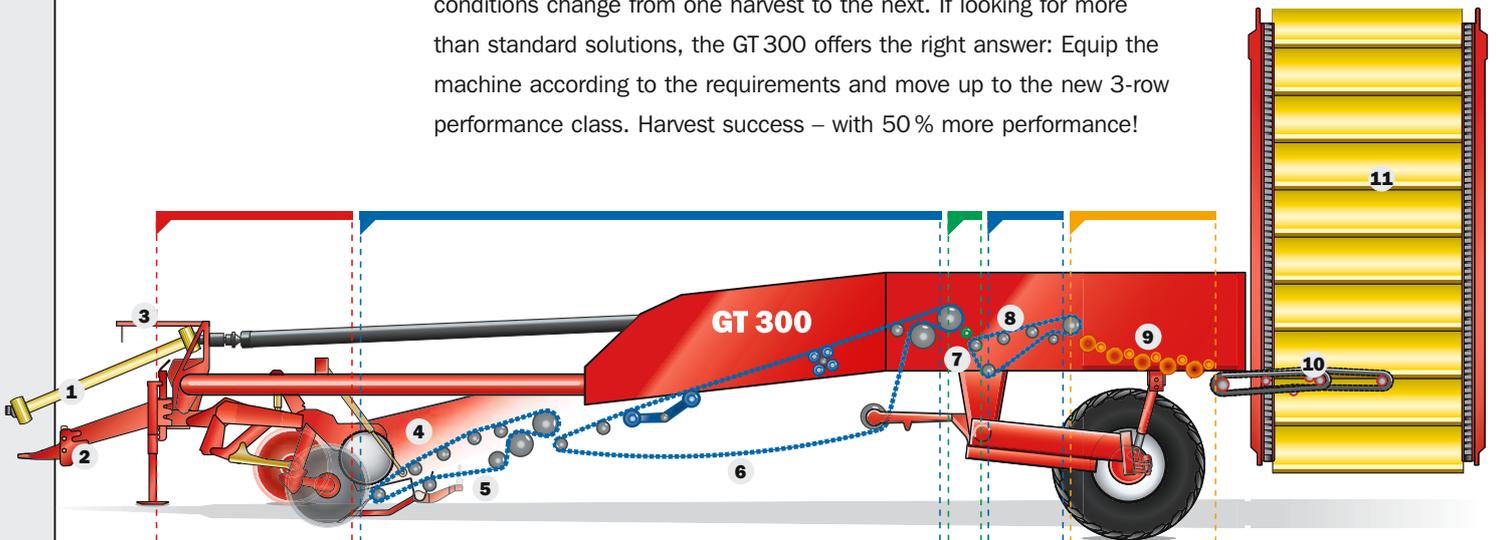
Grimme offers you the alternative: Usually, potatoes that are harvested in 3 rows (4) are also planted in 3 or 6 rows. We give you the choice.



The look into the new dimension: 3-row digging with the GT300 (5). The proven straight-lined harvest flow and the slight incline of the main webs make this machine very gentle to the crop and ensure high performing.

## Individual solutions in a new dimension!

Different weather conditions, different soil types, a number of potato varieties and many, many more factors. – Briefly said: Harvesting conditions change from one harvest to the next. If looking for more than standard solutions, the GT 300 offers the right answer: Equip the machine according to the requirements and move up to the new 3-row performance class. Harvest success – with 50 % more performance!



1 Tractor connection  
540 or 1,000 U/min.

2 Drawbar eye  
below or hitch

3 Cable conduit to protect  
the electric cables and  
hydraulic hoses

4 Swing frame with  
intake unit

5 Intake web  
6 1<sup>st</sup> main web with  
agitator models

7 Haulm roller  
against main web

8 2<sup>nd</sup> main web

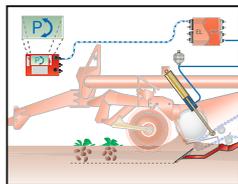
9 MULTISEP

10 Transfer web  
(a short and a  
long transfer web)

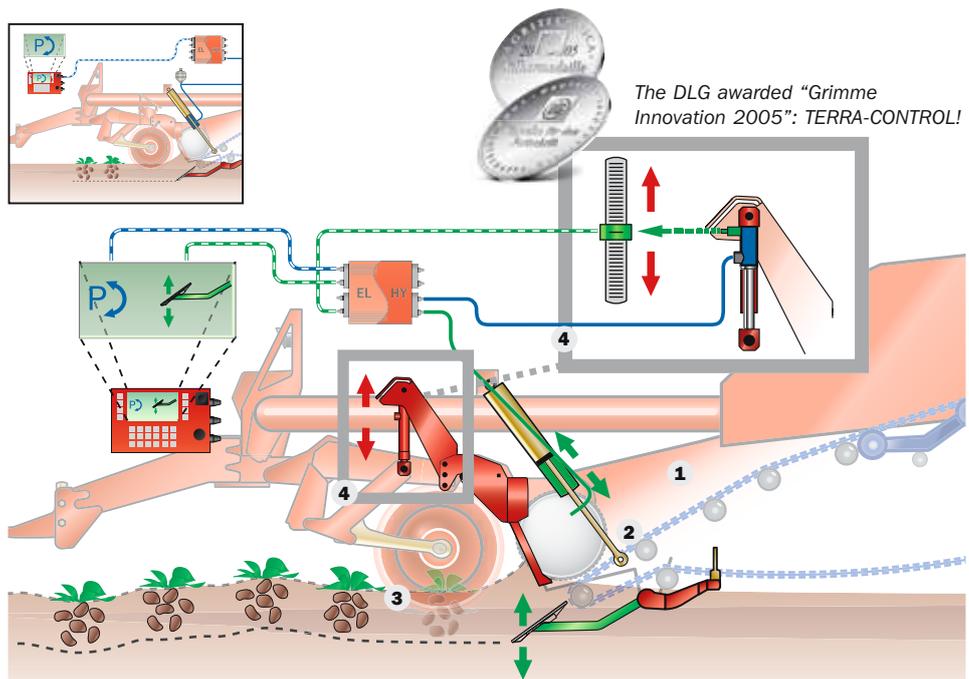
11 Cart elevator

### INTAKE

Hydraulic ridge relief (option):  
Work better without pressure.  
And dig.



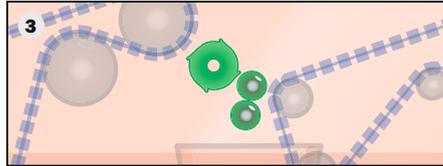
This is how the GT 300 will become even more effective: with TERRA-CONTROL, the hydraulic share depth guidance system with integrated ridge pressure adjustment. The swing frame (1) is held in place by two cylinders (2). With TERRA-CONTROL, the diablo rollers (3) are supported by two special hydraulic cylinders with integrated distance measuring system (4). These hydraulic cylinders register every deviation of the ridge crown height and transmit the signal electro-hydraulically to the two swing frame cylinders. The digging depth and the ridge pressure remain constant – at any time and with any ground contour – individually in every row!



## SIEVING SUPPORT



## HAULM SEPARATION



The GT 300 is standard equipped with a rotor agitator (1). A swing agitator (2) is available as an option for a more gentle screening process.

The combination of a spiral segment roller with a double haulm roller into one haulm system (option) (3) ensures that the potatoes are not separated against the bars of the main web but against a soft spiral segment roller.

## SEPARATORS



For universal use: the 4-lip spiral segment rollers are standard for the MULTISEP 4-Lip-Spiral-Segment.

For difficult harvesting conditions: the 3-lip spiral segment rollers with a lip height of 10 mm are used for better soil separation for medium to large potatoes in the MULTISEP.

For extremely wet harvesting conditions: the 3-lip spiral segment rollers with a lip height of 20 mm are used for large potatoes in the MULTISEP.



## MultiSep

Grimme Innovation

With the Grimme MULTISEP (1) one has the ability to separate thrash effectively and without losses – even on cloddy, sticky and soil with small stones: 4 pairs of rollers, consisting of a chosen PU spiral segment roller as well as a rubber-coated smooth roller make a “clean slate”. For very small or loose-skinned potatoes and for vegetable harvesting, smooth steel rollers are also available.



- A** Steel spiral roller for dry soils with stones and hard clods
- B** Rubber spiral roller (basic equipment) for universal use
- C** Rubber smooth roller  $\varnothing$  90 mm
- D** Rubber smooth roller  $\varnothing$  85 mm
- E** Rubber smooth roller  $\varnothing$  80 mm
- F** Rubber smooth roller  $\varnothing$  75 mm
- G** Rubber smooth roller  $\varnothing$  70 mm
- H** Steel smooth roller for use on dry soils

The Roller separator RS (2): an option for tough cases. Even extremely heavy, sticky soils and the most adverse digging conditions are not a problem for the roll separator – consisting of 12 rubber-coated roller pairs arranged the long way (a spiral and a smooth roller together). There are a total of 8 models available for different conditions.



More success with the double pack: Combine the MULTISEP (3) or the Roller separator (4) with an additional MULTISEP. The separator units can be operated separately in their feeding and cleaning performance; therefore, they can react optimally to changing conditions.

## TRANSFER ELEVATOR

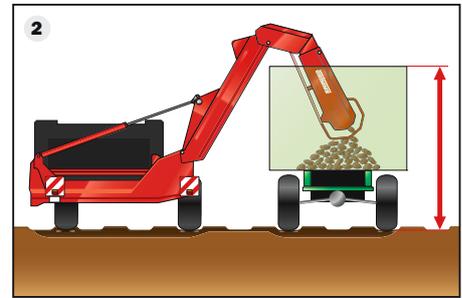
# Deep unloading – high flexibility: the innovative transfer technique

Evenly good: the transfers in the elevator. A two-piece transfer web, consisting of a long and a short supply web (1) warrants a steady and even fill of the 1.2 m wide transfer elevator or a high-performance transfer.

One step better: Due to the length of the cart elevator, high transport vehicles are no longer a problem. The head dips deep into the cart (2) and ensures low drops.



A very gentle feeding. Highest possible flexibility. And 160 t/h feed performance! – This makes the cart elevator of the GT 300 so special. The active lateral parts as well as the length and flexibility of the elevator ensure a smooth and gentle feeding of the harvest stream.



Reverse: With the optional function of windrowing, the cart elevator can be reversed. I.e. the deposit funnel ensures the swath deposit between the two adjacent rows (3).

Gently treated all the way into the box: With the optional box fill funnel (4), the potatoes are transported very gently deep into the box.



Harvest success gently: The cart elevator dips deep into the transfer vehicle. It transfers the potatoes through the 1.2 m wide pockets gently.



MACHINE CONTROL

## Simple. Comfortable. Intelligent: the machine control by Grimme



With the VC 50 control terminal (B), all adjustments can be comfortably and intuitively made via a touch screen. The intelligent electronics offers the opportunity to directly analyse and repair faults. The additional GBX box (C) can be freely programmed. Thus, the axle steering or the levelling of the machine can be adjusted via the joysticks. Respond faster: The option CAN bus controlled video surveillance system VISUAL-PROTECT allows an all-round functional monitoring of the harvester. If there is a problem with the machine, the monitor will automatically switch to the respective camera. The driver can immediately gain an impression of the problem.



### Visual Protect



This is how to retain an overview: With the video cameras (option) (D) and monitor (option) (A) the operator will no longer miss a thing whilst harvesting.

WHEEL DRIVE

## Drive in the track of success



Stable in the field – compact on the road. In spite of its impressive dimensions (1), the machine can be driven on any road that is 3.3 m wide (2) without any problem. For this, the right tyre can be hydraulically retracted and extended.



Harvest in a relaxed manner – even under the most adverse conditions: with the hydrostatic wheel drive (option) (3).

**The correct tyres for every use:**

- A** 500/60-22.5 (standard tyres)
- B** 600/50-22.5
- C** 600/55-26.5



## Technical data

	<b>GT300</b>
<b>Measurement</b>	
<b>Length</b>	From 10,730 mm
<b>Width</b>	From 3,280 mm
<b>Height</b>	3,360 mm
<b>Weight</b>	Depending on the model from 8,600 kg
<b>Required power</b>	From 95 kW/130 HP

	<b>Basic equipment</b>	<b>Option</b>
<b>Axle</b>	Hydraulic axle steering (displays on the operating terminal) Levelling on the right hand side	Self-centring steering Hydrostatic wheel drive Automatic levelling
<b>Tyres</b>	500/60-22.5 (standard)	600/50-22.5; 600/55-26.5 Compressed air brake (standard in Germany) Hydraulic brake (standard in some countries)
<b>Drawbar</b>	Choice of towing eye with $\varnothing$ 40, $\varnothing$ 50 or extra long hitch coupling with $\varnothing$ 50 mm	Hydraulic drawbar steering
<b>Intake</b>	3 shares, 2- or 3-piece 540, 580 or 620 mm intake width per row, 750 to 900 mm row width Pulled diablo rollers and disc coulters	Centre share Bed digging unit Vegetable digging unit TERRA-CONTROL (hydraulic share depth guidance with integrated diablo pressure adjustment) Hydraulic ridge relief
<b>Intake web</b>	2,230 mm wide, separating surface 3.45 m <sup>2</sup> Choice of pitch 28/32/35/40/45/50 mm	–
<b>1<sup>st</sup> main web</b>	2,230 mm wide Separating surface 7.4 m <sup>2</sup> Choice of pitch 28/32/35/40/45/50 mm Bar diameter 9/10/10/10/11/11 mm Hydraulic rotor agitator height-adjustable Pitch independent rubber drive	Rubber-coated bars Additional swing agitator Hydraulic height adjustment of the rotor agitator Further options: agitation unit, cleaning basket, clod breaker
<b>1<sup>st</sup> separator</b>	Extracting roller directly against 1 <sup>st</sup> main web	Extracting unit: segment roller with double roller
<b>2<sup>nd</sup> main web</b>	2,230 mm wide, separating surface 2.09 m <sup>2</sup> Choice of pitch 28/32/35/40/45/50 mm	Rubber-coated bars
<b>Separator for trash and haulm separation</b>	–	MULTISEP/Double-MULTISEP Roller separator TwinSep/Bypass-kit (for the roller separator)
<b>2<sup>nd</sup> separator</b>	Extracting roller directly against 2 <sup>nd</sup> main web	–
<b>Transfer web</b>	A long and a short transfer web for the even filling of the cart elevator	–
<b>Cart elevator</b>	Hydraulic drive, capacity 120 t/h, transfer width 3,500 mm, transfer height 4,000 mm	Windrowing on the left between the rows Box filling chute
<b>Machine operation</b>	VC50 operating terminal	Monitor with video cameras VISUAL-PROTECT

Your Grimme Partner for advice and service:

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