



PRIOS 440

PRIOS 440: The smart and powerful 4-row cup planter with a 4 tonne hopper and a road transport width of less than 3 metres.

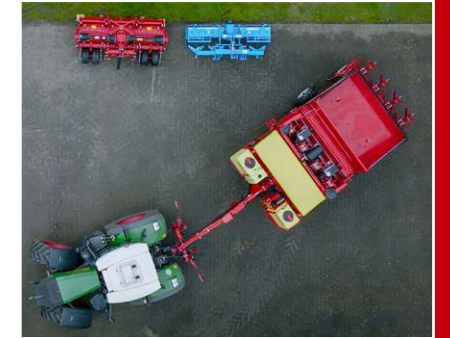
PRIOS 440

Thanks to its modular design, the GRIMME PRIOS 440 offers various equipment options and a high level of operating convenience. With the help of a goose neck drawbar which is coupled to an intermediate frame and a separate lifting mechanism, soil cultivation can be done with any common soil tillage implement. At the same time, fertiliser, granules, furrow treatment agents and liquid seed dressing can be applied when the potatoes are planted. The newly engineered "hybrid" ridge shaping unit device ensures ridge shaping under all soil conditions and high flexibility in case of changing ridge forming requirements. The PRIOS is available in three versions: PRIOS 440, PRIOS 440 PRO and PRIOS 440 for bed-cultivation.



Wide range of combinations

The EU type-approved goose neck drawbar with intermediate frame and separate lifting mechanism allows a quick change between different soil cultivation implements. The depth guidance of the soil cultivation is independent of the potato planter. This means, that the required depth of cultivation and the planting depth of the tubers can always be accurately maintained.



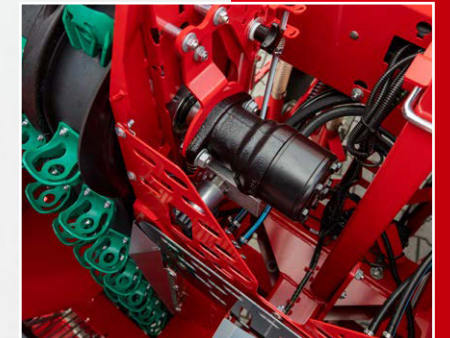
3 metres road transport width

Due to the road transport width of less than 3.00 m, GRIMME's PRIOS 440 is the first 4-row potato planter with a complete EU type-approval. A special approval for road transport is no longer required. The complete EU type-approval simplifies interplant or even cross-border use.



Completely hydraulic central drive

The PRO version has a hydraulic central drive, although a hydraulic single row drive is also available as an option. This version is also equipped with automatic hydraulic depth control of the furrow openers, covering discs and hydraulic axle steering.



Mechanical drive and depth control

The mechanical drive of the potato planter is provided by two drive shafts attached to the wheels of the chassis. It enables a tuber spacing from 14 to 51 cm (5.5 to 20 inch).

The mechanical depth control of the furrow openers is ensured by two feeler wheels, which are either attached directly to the furrow openers or, in configurations with a fertiliser box, to the fertiliser outlet disks.



"Hybrid" ridge shaping unit

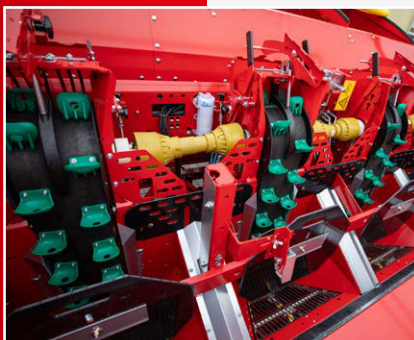
The "hybrid" ridge shaping device combines the advantages of a shaping board with those of a cage roller. This allows you to create a ridge with stable, smooth flanks and an open-pored ridge crown. In addition, the ridge structure can be optimally adapted to the existing soil conditions.





Protection against erosion

The optional available TerraProtect creates small transverse ridges, so-called dykes, between the potato ridges. The dykes reduce the risk of erosion and at the same time promote water absorption.



GRIMME cup planting element

GRIMME cup planters offer easy-to-operate and robust technology that enables high performance with precise and even tuber placement in the ridges.



Fertiliser box

The 1,700 l waterproof plastic container with tarpaulin cover ensures a high acreage performance and protects the fertiliser from the weather. Robust grill avoids problems caused by fertiliser clods or other foreign objects.

A calibration kit enables the amount of fertiliser to be set precisely to prevent over- or under-fertilisation.



Tank system

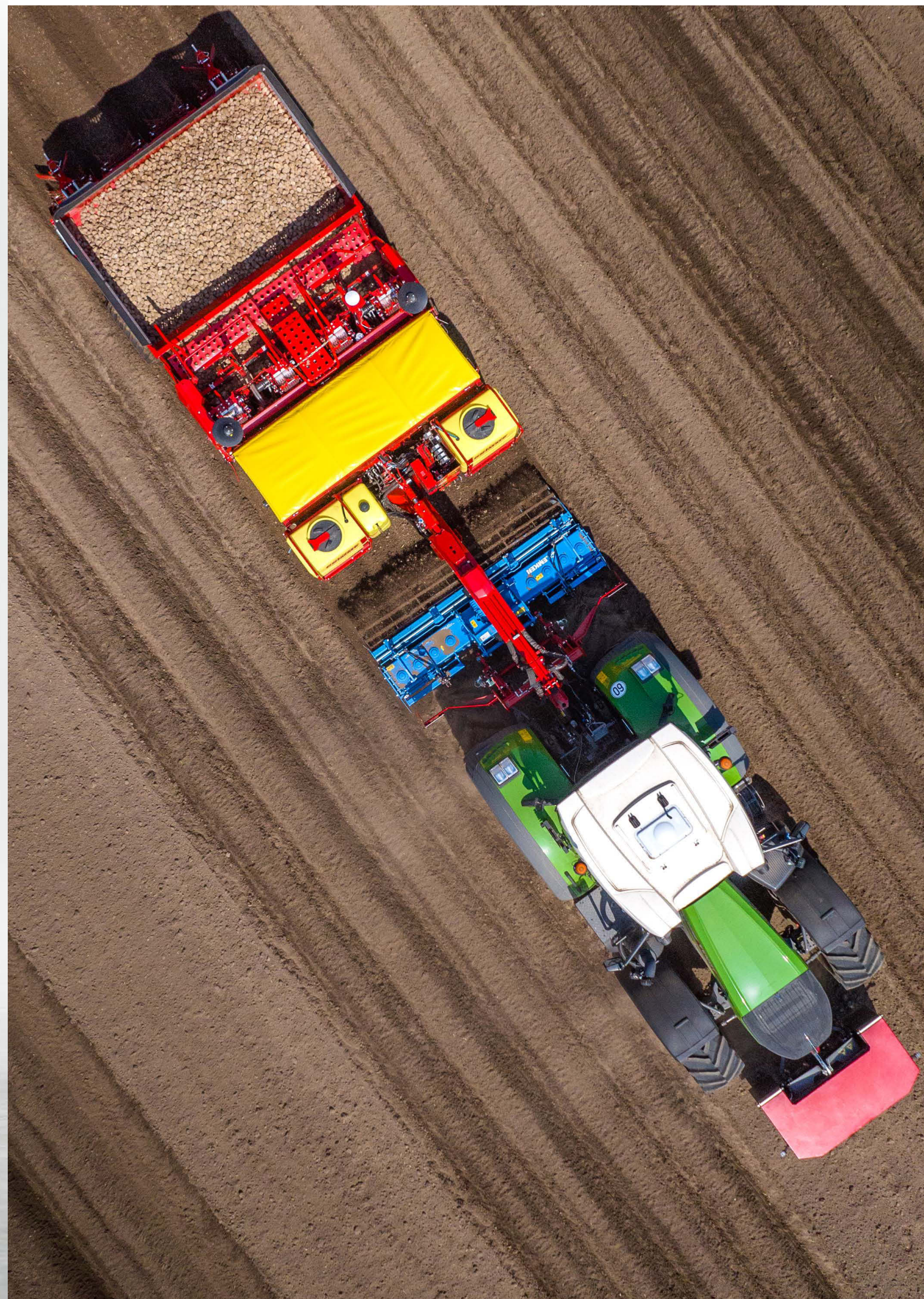
Depending on requirements, the PRIOS 440 can be configured with a mounting kit for liquid chemicals (applied to the tuber) and a mounting kit for liquid chemicals to be applied into the furrow.

A combination of both mounting kits is also possible and can be easily reconnected to the tank system.



Versatile attachment options

The PRIOS 440 offers versatile tractor attachments, including a gooseneck drawbar with intermediate frame for the soil tillage implement, a mechanically telescoping drawbar and a mechanically telescoping steering drawbar.







Offset adjustable frame

The new adjustable frame is able to shift the drawbar even further outwards. It has an additional support wheel to reduce the load on the tractor when planting offset.



Hydraulic centre ridging bodies

The centre ridging bodies enable large-volume ridges even on uneven beds. They can be hydraulically adjusted in height to adapt precisely to different ground contours. This ensures a stable structure of the beds, which leads to better water distribution, aeration and nutrient supply to the seed potatoes.



Separate depth guidance

The new machine features individual depth control of the furrow openers for each of the two beds. This enables the machine to achieve an exact placement depth for the tubers, even on uneven surfaces. One skid is used per bed to scan the beds for exact depth control. In addition, the coverage of the tubers is measured using an ultrasonic sensor in front of the ridge shaping unit.



The new chassis

The PRIOS for bed-cultivation is equipped with a 2-wheel chassis with 38-inch tyres. Thanks to the new axle, a generous steering angle of $\pm 30^\circ$ is now possible, which ensures maximum manoeuvrability even in the tightest of spaces. This is particularly advantageous for small headlands.



Deflector plates

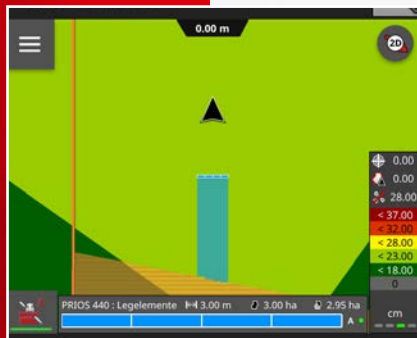
Specially designed soil guiding plates for the fertiliser outlets and furrow openers can be configured as an option to keep the soil in the bed in the best possible way and promote optimum tuber growth. These additional features contribute to healthier and powerful plant growth.





Work site-specificly

Using application cards, up to two applications can be controlled simultaneously on a site-specific basis. For example, the tuber spacing and the fertiliser quantity can be regulated on the basis of a corresponding application card.



Completely Section Control Capable

In order to save money and resources, the fertiliser box, the barrel system and the planting elements can be switched on/off separately from each other and for each row individually via Section Control (single-row switch on/off with so-called "Multiboom function"). This can significantly reduce nutrient inputs into the environment, especially when creating spray tracks or planting on wedge-shaped fields.

"See - What you want and How you want it"

Thanks to the SmartView video system with 5 cameras, all relevant functions remain permanently in view. With many functions, such as live slow motion, the large display can be freely customized. All-round visibility in the dark is also significantly improved by the new LED ambient lighting.



Clearly arranged and easy to operate

Operation is convenient and is done via ISOBUS as standard. The GRIMME Digital Interface (GDI) provides the operator with an ideal overview of the machine parameters to be set. All taskdata, machine- and location parameters can be transmitted wireless to the end customer portal myGRIMME, or via "agrirouter" to the farm's own Farm Management Information System (FMIS).



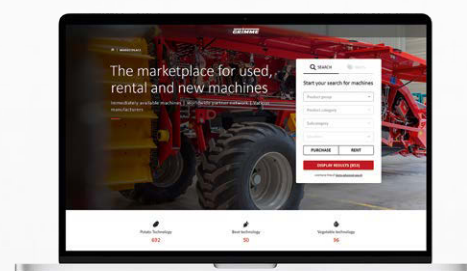
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