



MATRIX 1200/1800

The latest generation of the MATRIX drill impresses with its exact depth guidance, precise seed placement and its convenient operation. The 12-row or 18-row mechanical precision drill can be used for seeding beet, canola-seed and seed of root chicory.

MATRIX 1200/1800

The MATRIX mechanical precision drill has been on the market for over 10 years. The focus of the new development includes a compact design, optimised weight distribution and increased driver relief in terms of adjustment options and assistance systems. The MATRIX is suitable to seed beets, canola and root chicory.



Quick and safe transport from field to field.

The hydraulic lifting and folding mechanism, without sensors, ensures a quick change from field to field. It takes less than 12 seconds to switch between field and road transport position. An optional lighting equipment with warning signs is available for road safety.



Tine rakes or tine-coulters

For smooth operation of the seeding units in the tractor track, you the operator can choose between a tine rake or two tine-coulters per tractor track. The tine rake, which can be adjusted without any tools, is suitable for levelling the tyre tread in case of mulch seed. The tine-coulters are preferably used on heavier soils.



Overview of the seeding unit

Each individual seeding unit consists of a height-adjustable bracket for the cutting disc, large depth control wheels, optionally available clod clearers, the seed-meter for singling the seed, a spring-loaded and steerable intermediate press wheel, furrow closers and a wide variety of caster wheels.



Service- and maintenance friendly

The running wheels can be easily folded upwards without tools for maintenance and cleaning work on the seeding unit.



Parallelogram made of cast aluminium

The new parallelogram guides each individual seeding unit accurately in the row, enabling precise, mechanical weed control without damaging the plants. At the same time, the enormous ease of movement enables perfect adaptation to the ground contour.





Pressure support for the seeding unit

With the mechanical pressure support, the coulter pressure can be increased in four steps from 0 kg to 30, 60 or 90 kg. A fifth step provides additional pressure for the area within the tracks for a maximum of 110 kg.

The seeding coulter pressure adjustment for the hydraulic version is infinitely variable via operator terminal up to a maximum of 120 kg per row.



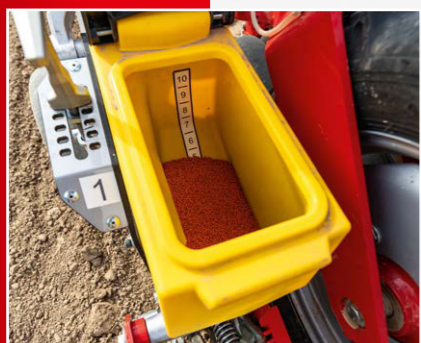
Patented seeding coulter change system

The new quick-change system makes it much easier to replace relevant components. Only one screw needs to be loosened and one screw completely removed to replace the seeding coulters. Afterwards, the seeding coulter can be removed downwards.



Precise seed placement of diverse crops

Precise placement is made possible by the combination of very low drop height and an internally filled cellular wheel. In addition to beet seed, new sensors also detect and count seed of canola and root chicory.



High acreage performance

The dust and splash-proof seed box holds 1.5 units and is securely sealed by the spring-loaded catch. A flap for fast discharge is also integrated.



Tool-free adjustments

The main focus was on the tool-free and simple adjustment of the entire machine. All relevant components can be adjusted in no time at all.





ISOBUS Operation

The machine can be operated via any ISOBUS terminal or ISOBUS-compatible terminals from tractor manufacturers. The new GDI interface (GRIMME Digital Interface) is now also available. This means that operators can quickly find their way around and have direct access to all adjustable parameters.



Productivity-enhancing assistance systems

- Section Control: Automatic switching on and off of the individual seeding units for a precise creation of field edges and spraying tracks.
- Variable Rate Control: Site specific seed spacing.
- MATRIX-seed: Within the machine width, each individual seed is placed in a triangular formation for an optimised crop distribution.



Intelligent spraying track marking in the pre-emergence period of the beet

When creating a spraying track, which can be done via "Tramline Control", the entire seeding unit is lifted so that the seed row is not cultivated.



Creation of so-called harvest-windows

Defined "bed markings" can be created by selecting the number of rows (e.g. 6 rows) and the distance (e.g. 1 m). The bed marking is an area on which no beets are sown. It helps the driver of the harvester to orientate in relation to the seeding process, increases harvesting efficiency and provides additional driver relief.



New features of connectivity in myGRIMME

The new MATRIX has an optional telemetric-unit (GSC box). This allows data to be transferred to the myGRIMME. New applications such as 'Fields' (for field-related documentation and visualisation), and 'Crops' (documentation of varieties) can easily be used.



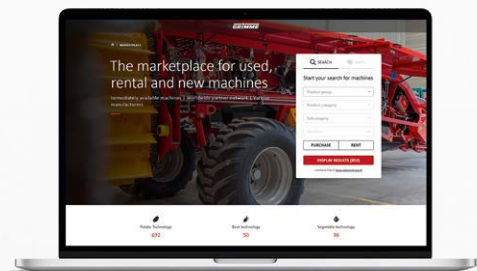
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