The precision seed drill
Faya MF

LEMKEN THE AGROVISION COMPANY

Focus **on detail**

Sealing concept

The singulation units are housed in a robust die-cast aluminium housing with a wear-free sealing design for maximum energy efficiency.

Singulation discs

The singulation discs, which are located in a pivoting housing, are always easily accessible and can be changed without tools.

Overpressure singulation

The overpressure-based singulation system enables high area outputs and ensures absolute precision in seed placement.

Ideal seed placement

The narrow opening angle of the double disc coulter minimises soil movement and therefore ensures precise seed placement.

Seed hoppers

The pressure-tight seed hoppers store up to 70 litres of seed per row. The hopper lids can be locked in the open position.

Coulter pressure

The coulter pressure can be adjusted in line with soil conditions via different mechanisms: mechanical, hydraulic or automatic.

Furrow closing unit

For uniform seed coverage in all operating conditions, both the pressure and angle of the furrow closer can be adjusted without tools.

Frame design

The six-metre-wide base frame of the Faya MF features a two-section folding mechanism. It allows for different row spacings.

Utmost precision thanks to overpressure

Seeding unit

The precision seeding unit was developed using key elements of the proven Equalizer system. These include precise seed placement in all conditions, from plough seeding to direct seeding – all with convenient operation. The new overpressure singulation system, combined with the pressure-tight seed hoppers, complements the row unit for precision seeding. This allows forward speeds of up to 16 km/h to be achieved at any time.

The Faya MF is ideal for the precise seeding of a wide variety of crops, including fine seeds such as oilseed rape and sugar beet, as well as large-grain seeds such as field beans. The modular frame design supports row spacings from 45 to 80 cm. Row spacings can be adjusted by quickly converting the machine from narrow to standard seeding. This significantly increases both the range of applications and the utilisation of the Faya MF precision seed drill, making it highly attractive from an economic perspective.

Seed hoppers

The pressure-tight seed hoppers store up to 70 litres of seed per row. The hopper lids can be locked in place in the open position for easy and convenient filling from bags.

Seed residue can be drained via a bottom flap on the singulation unit, without the need for tools. This makes it quick and easy to switch between different types of seeds.

Seed singulation

The LEMKEN singulation system sets pioneering standards in terms of energy efficiency, sealing quality and robustness. The electrically driven singulation unit boasts an innovative and unique operating concept, as well as excellent accessibility and convenience. The seed discs can be easily changed from the rear thanks to a pivoting housing made of sturdy and durable die-cast aluminium. This ensures the operator can access the space safely, even with narrow row spacings, as there is not need to step between the rows. The housing features a precisely fitting seal that does not come into contact with the rotating seed disc. This minimises wear and simultaneously reduces the energy required by the singulation motors.

The high-speed, overpressure-based singulation process ensures that each seed is placed precisely: Seeds are pushed towards the openings in the seed disc by overpressure and are reliably picked up there. The scraper prevents seeds from doubling up at the seed disc, ensuring maximum placement accuracy and preventing duplication, even at high forward speeds.

At the point of placement, the hole is temporarily sealed from the other side so that the seed is guided into the soil via the drilling tube. The ejector wheel keeps the perforated discs clean at all times and ensures an even flow of seeds.

Seed discs

The right setup for every crop: A range of seed discs are available for different crops and can be changed quickly and without tools. The locking mechanism is located directly on the lid side of the pivoting housing, even when the hopper is full, thanks to a shut-off gate.

Scraper adjustment

To ensure maximum seed metering precision, three versions of the scraper adjustment mechanism are available: mechanical, electric and automatic.

With the mechanical version, the adjustment is made manually via a compact lever on each row. With the electric version, the adjustment can be conveniently made for individual or multiple rows by controlling the electric motors from the operating terminal. Automatic scraper control provides an even greater level of comfort: Using the signals provided by the grain sensors, it detects duplications and blanks in real time and automatically adjusts each scraper individually for each row.

The precision of seed placement is clearly displayed on the terminal in all versions, optionally also with the standard deviation.

Mechanical scraper

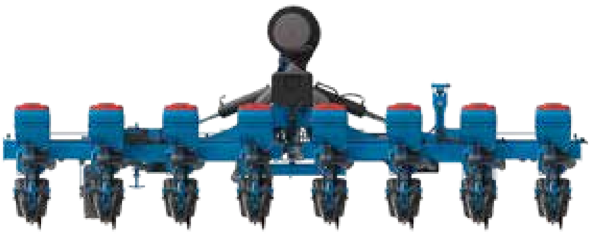
Electric scraper

One frame – **many possibilities**

Impressive flexibility: With a six-metre-wide base frame and central folding, the Faya MF supports a wide range of row and spacing combinations for precision seeding – perfectly adapted to different crops and operating requirements.

Converting the implement from 12 rows with a 50 cm row spacing to 8 rows with a 75 cm spacing, for example, takes no time at all. Variants with nine 75 cm rows are also possible.

Base frame with 12 rows and 50 cm row spacing

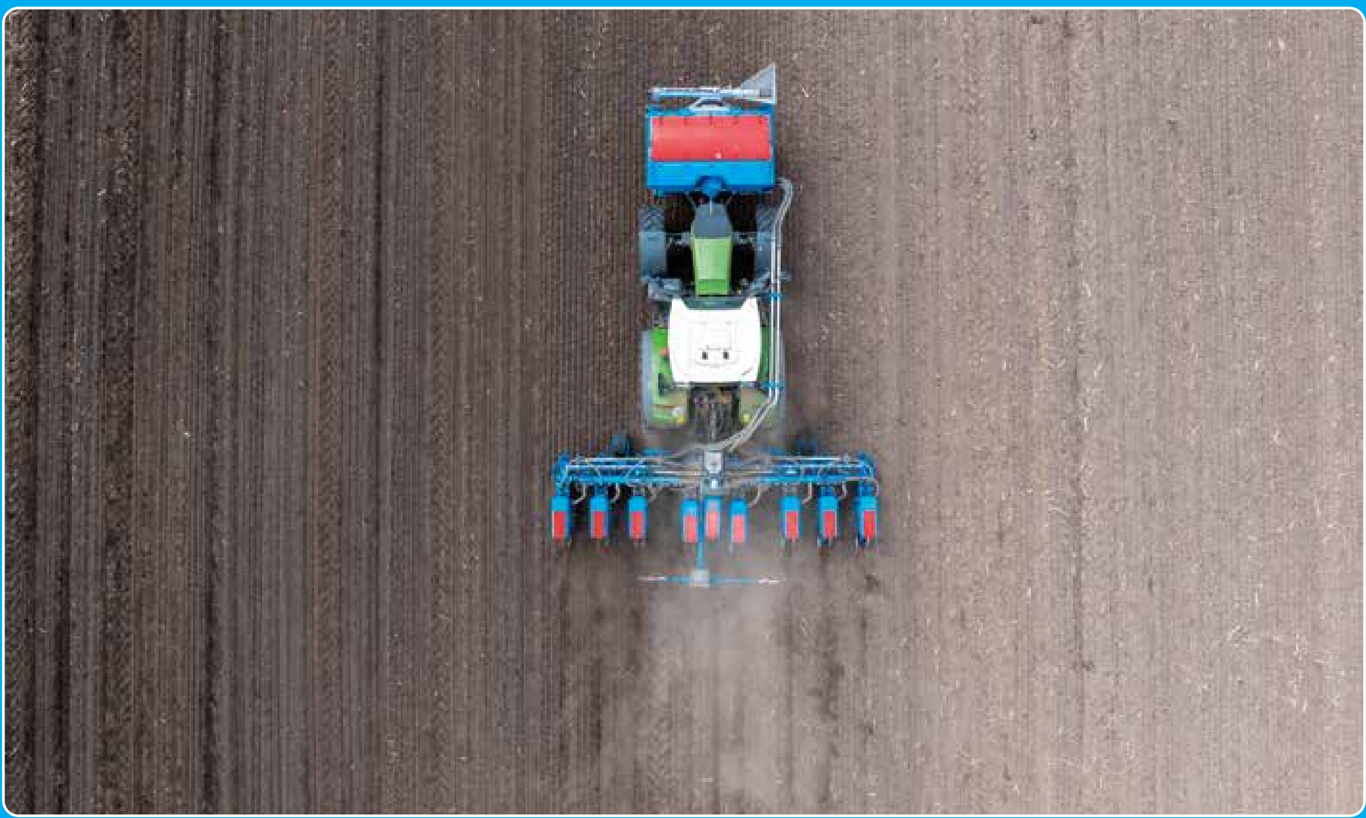


Base frame with 8 rows and 75 cm row spacing

Tramline control

Accurate tramline control is essential when applying organic fertiliser or crop care products. The row units are automatically shifted to create the appropriate tracks, precisely matched to the desired track and tyre width.

To achieve this, two or four rows can be shifted laterally on the machine frame, depending on requirements. The process is conveniently controlled via the terminal or with precise GPS guidance. The result: neatly laid tramlines.



Placement – step by step

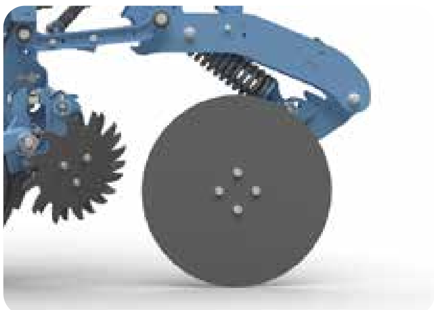
With the Faya MF, both mineral and liquid fertiliser can be applied precisely, depending on the application and requirements. LEMKEN therefore provides maximum flexibility for a wide range of fertiliser spreading requirements.

For spreading mineral fertiliser, the Faya MF is combined with the Solitair F front hopper. Alternatively, the Solitair PT can be used with simultaneous seedbed preparation by the Zirkon power harrow. Both variants enable precise metering and the activation of up to four width sections for efficient work without overlaps.

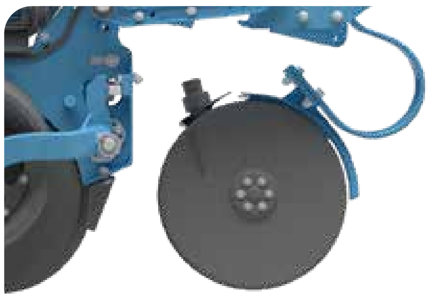
For spreading liquid fertiliser, the precision seed drill is combined with a front-mounted SprayHub. The liquid fertiliser is fed directly into the fertiliser coulter via hoses, where it is then precisely applied.

Fertiliser coulter

With the Faya MF, every farmer benefits from maximum metering accuracy, optimum efficiency and perfect integration with existing LEMKEN systems. Two coulter variants are available for applying under-root fertiliser:



The heavy-duty variant works with a robust single disc coulter, optionally with or without a depth control roller. Both the fertiliser placement depth and the coulter pressure (up to 175 kg) are set mechanically.



The second variant is a more compact double fertiliser disc coulter without depth control roller. Its lower weight makes this variant ideal for tilled and lighter soils.

Placement – synergy in the row

Drilling tubes

The drilling section comprises a plastic drilling tube with integrated grain sensor that joins a robust steel outlet with a furrow former in the seeding coulter. The upper part of the drilling tube can be removed without tools. This allows the grain sensor to be cleaned quickly and easily.

The drilling section is available in a diameter of 16 or 21 millimetres to suit different seed types and sizes. The steel outlet pipes are also available in different versions for different crops. This is particularly useful when changing from large-grain to fine seeds.

Seeding coulter

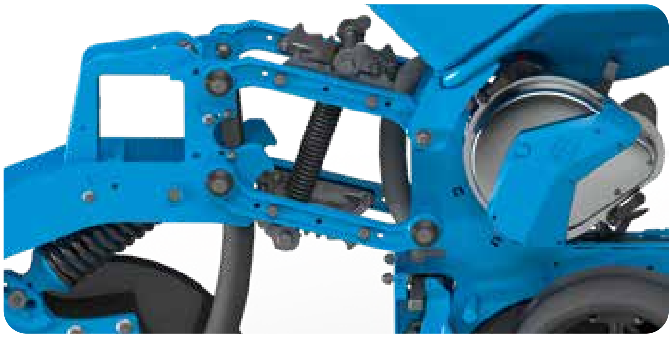
LEMKEN sets new benchmarks in coulter technology: The double disc coulter features an offset arrangement and a particularly narrow opening angle – a geometry that has proven its worth in the direct drilling segment and reaches its full potential in precision seeding. The exceptionally narrow opening angle – one of the narrowest on the market – minimises soil movement, reduces furrow wall compaction and significantly decreases power requirements.

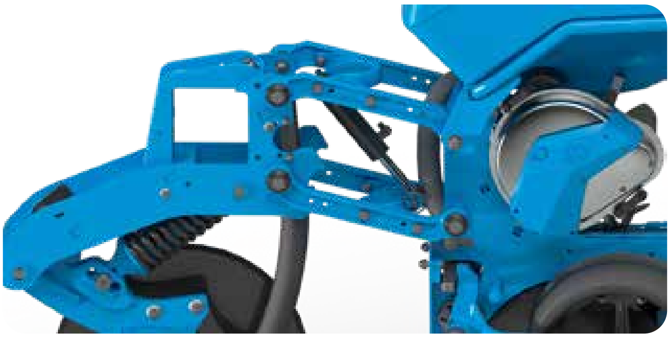
The result: precise depth placement and uniform seed emergence. The laterally guided depth control wheels ensure precise drilling depth and can be optionally fitted with scrapers.

Coulter pressure adjustment

For precise seed placement in all conditions, the Faya MF offers three types of coulter pressure adjustment: mechanical, hydraulic or automatic. A coulter pressure of up to 350 kg can be applied to each row unit.

With the mechanical version, the setting is made directly on each row unit by adjusting a spring within the parallelogram. This simple, robust solution allows the coulter pressure to be precisely adjusted to individual soil conditions.





Hydraulic adjustment is available as an option, via either a single-acting or a double-acting spool valve.

- Single-acting: The coulter pressure can be conveniently and continuously adjusted from the tractor cab.
- Double-acting: The row unit can not only be pressurised, but also relieved if necessary. This is ideal for use in soils with low load-bearing capacity and highly variable soil conditions.

The automatic version features sensors in each row unit, which measure the contact force and dynamically adjust the coulter pressure to ensure a uniform drilling depth and perfect field emergence, even in variable conditions.

If maximum coulter pressure is required for perfect seed placement, the weight of the machine may not be sufficient to achieve this. In this case, additional weight can be transferred to the seed drill frame via the lower links on the tractor.

Furrow closer

The final step in ensuring perfect field emergence is closing the seed furrow. For maximum flexibility in all operating conditions, both the pressure and angle of the furrow closer, which is available in either steel or plastic, can be adjusted without tool.

Smooth

Profile

Steel

Individual adjustments

Fertiliser hose monitoring

The optional fertiliser hose monitoring system provides additional reliability when fertiliser is applied at the same time as seeding. The system is installed directly ahead of the fertiliser coulter and monitors the material flow in real time. If a hose becomes blocked, for example due to poor fertiliser quality, this is immediately displayed on the control terminal.

Low level sensor

For even greater convenience, the seed hoppers are optionally also available with a low level sensor. This system detects low fill levels early on and immediately produces an alert on the terminal to enable timely refilling and ensure continuous work processes. Depending on the variant, one or two sensors can be installed per device.

LEMKEN iQblue

iQblue seed

With iQblue seed, LEMKEN's modern, ISOBUS-based operating concept, which is also used on other seed drills, is also available for the Faya MF. The uniform design ensures that drivers intuitively find their way around. The system is controlled via a LEMKEN CCI terminal or any other universal ISOBUS terminal.

iQblue section control

LEMKEN's iQblue width section control ensures that resources are used in a targeted and economical way. The automatic activation and deactivation of individual work sections reliably prevents overlaps and blanks. This saves resources, reduces costs and increases efficiency, particularly when working with complex field structures such as headlands, irregularly or wedge-shaped fields. It also significantly increases working comfort: The driver's workload is reduced, as no manual intervention is required, whether during the day or at night.

iQblue tramline control

With automatic tramline control, tramlines are created exactly according to the selected rhythm, eliminating the need for manual intervention. LEMKEN iQblue tramline control reliably deactivates the seeding units as required, using the stored machine and track widths as a reference.

Automatic control ensures precise and even tramline creation, particularly when used in conjunction with GPS and ISOBUS technology. This provides the ideal conditions for subsequent crop care measures.

iQblue rate control

With iQblue rate control, LEMKEN offers an intelligent solution for automatically controlling multiple application rates individually – ideal for all applications involving multiple farm inputs, such as seed or fertiliser. iQblue rate control enables the dosage or application rate of two (or more) components to be adjusted independently – precisely matched to the specific field section. This reduces the consumption of farm inputs in a targeted manner, without reducing effectiveness.

Depth control wheel

The frame of the Faya MF can optionally be fitted with two or four depth control wheels. These wheels run in front of the frame to provide additional support for the seed drill and ensure smooth operation and precise drilling depth, particularly in light soils.

Wheelmark eradication tools

Wheelmark eradicators with automatic overload protection ensure that the tractor tracks are sufficiently loosened before seeding, even in the most challenging conditions.

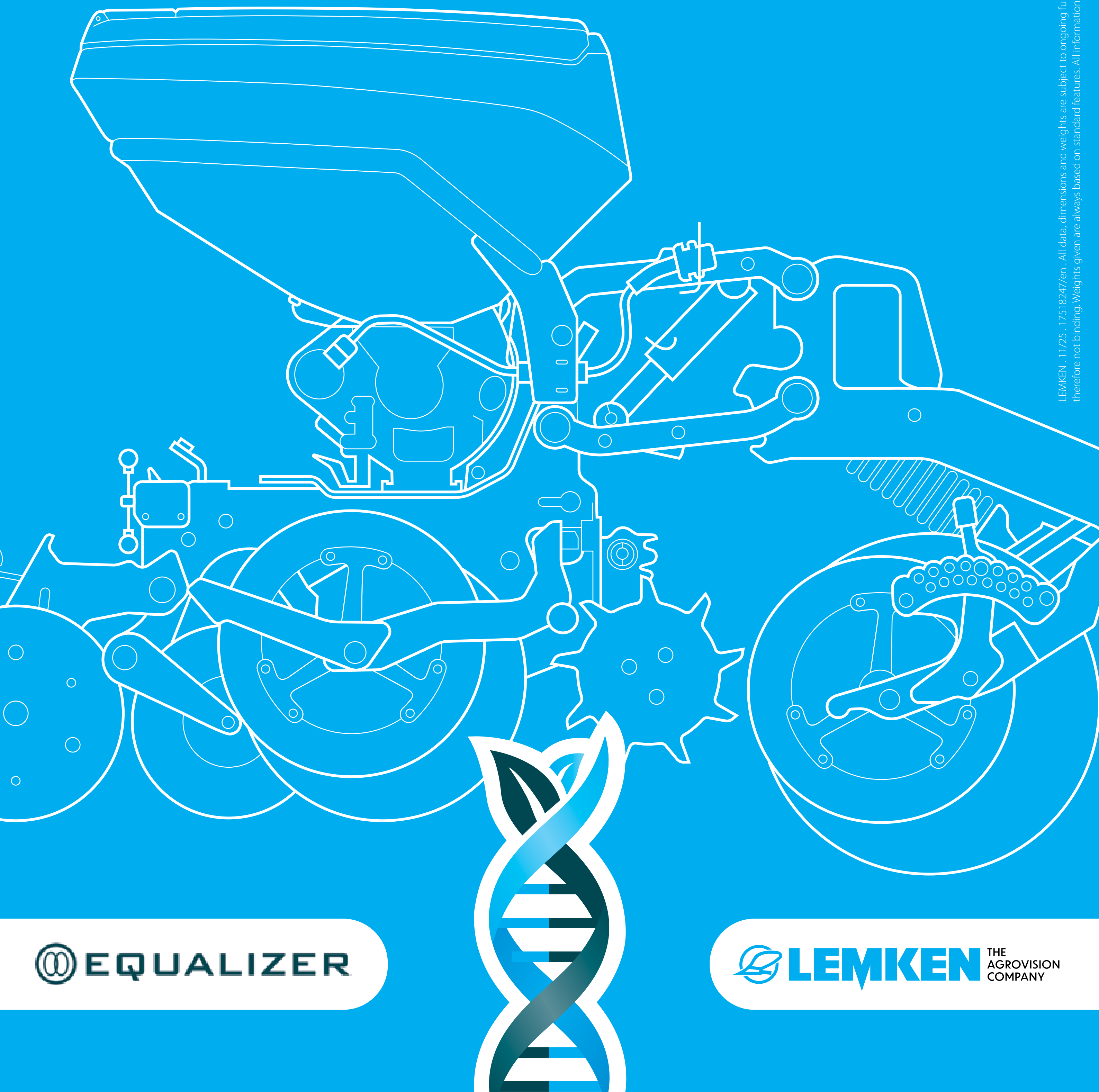
Specifications

Faya	MF/8	MF/9	MF/12
Frame type	folding	folding	folding
Working width [m]	5.6 - 6.4	6.75	5.4 - 6
Number of seeding units	8	9	12
Row spacings [cm]	60; 70; 75; 76.2	60; 70; 75	45; 50
Min.; max. drilling depth [cm]	10	10	10
Transport width [m]	3	3	3
Transport length [m]	3.1	3.1	3.1
Transport height [m]	4	4	4
Max. working speed [km/h]	16	16	16
Empty weight [kg]	2,800	3,000	3,600
Seed hopper capacity per row [l]	70	70	70
Seed singulation	Overpressure	Overpressure	Overpressure
Singulation drive	Electric	Electric	Electric
Seeding coulter pressure [kg]	350	350	350
Fertiliser coulter pressure [kg]	175	175	175
Tractor power requirement [kW; hp]	110; 150	110; 150	132; 180

Jointly developed

For agriculture around the world.

EQUALIZER, the specialist in direct seeding, contributes many years of experience and proven technologies to joint development projects. With the Faya, LEMKEN builds a new generation of precision seed drills that offer the utmost accuracy and robustness.



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