

EFFICIENCY IN USE

MDS - THE COMPACT ALL-ROUNDER

MDS



STRONG TECHNOLOGY WITHIN A SMALL SPACE - MDS AT A GLANCE

SINGLE-CHAMBER TANK

no central roof

ADJUSTING DEVICE

front positioned
outside the dirt area, visible from the tractor

PROTECTIVE GRILLE

large

CONTAINER AND FRAME

in separate design

BRUSHES ON METERING DUCT

for precise spreading patterns

STAINLESS STEEL

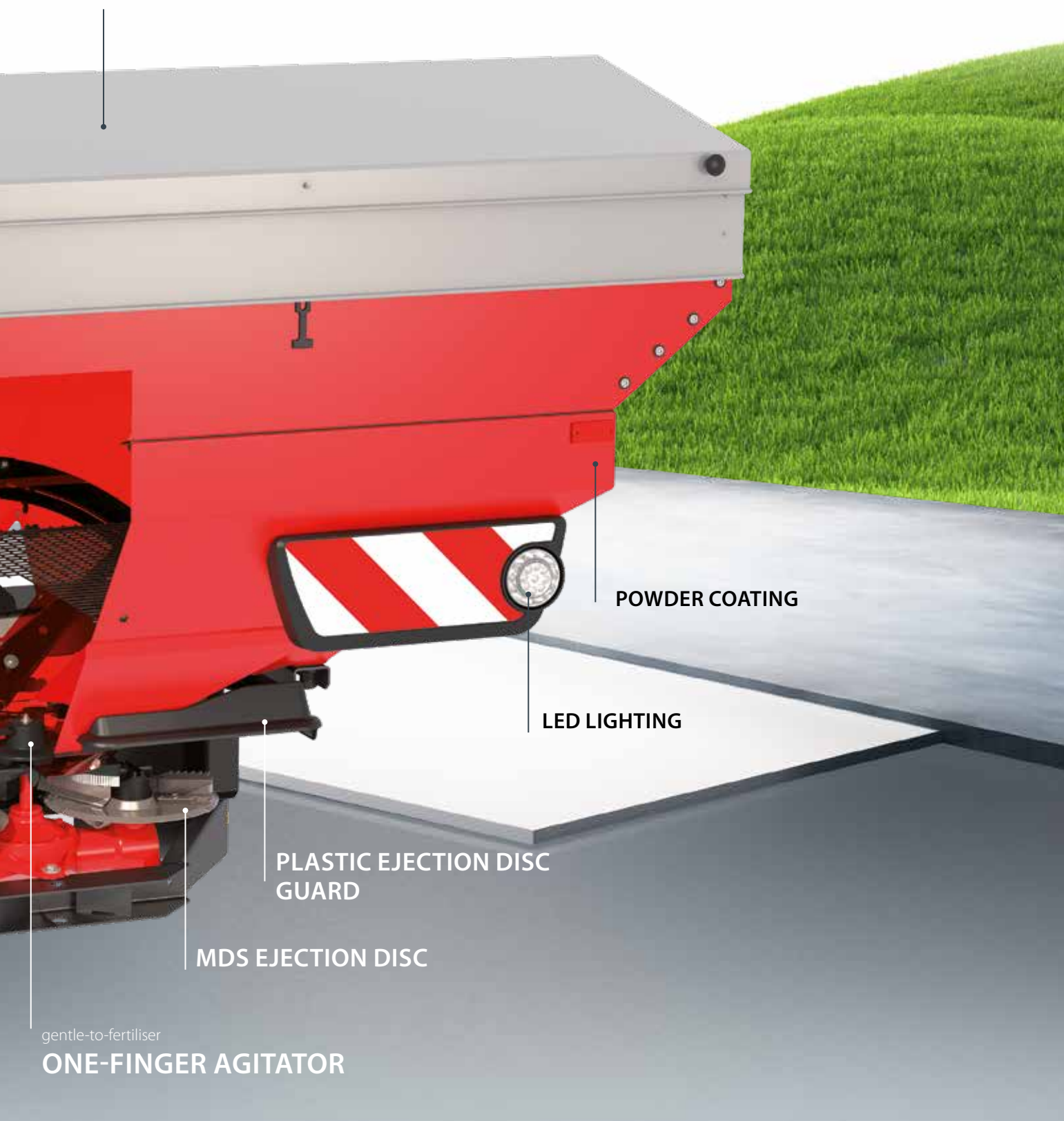
tank bottom, slide and agitator shaft

maintenance-free, enclosed

OIL BATH GEARBOX

Compact design for increased productivity and efficiency: The RAUCH MDS precision fertiliser spreaders combine trend-setting technologies in a small space to provide you with maximum benefits. Precise fertiliser distribution, even emptying, precise boundary spreading - benefit from an innovative solution that uses its strengths for you in almost all fields and takes you forward effortlessly.

FOLDING TARPAULIN



POWDER COATING

LED LIGHTING

PLASTIC EJECTION DISC
GUARD

MDS EJECTION DISC

gentle-to-fertiliser

ONE-FINGER AGITATOR

ON EVERY FIELD AT HOME - MDS MODEL VARIANTS

MDS 8.2 - THE NARROW ONE

Equipped with innovative detailed solutions, it is ideal for professional use in fruit, wine and hop cultivation.

- ▶ **Width: 108 cm**
- ▶ **Working width: 10 - 24 m or row fertilisation**
- ▶ **Volume: 500 l, up to 800 l with attachment**



MDS 18.2 - THE EFFICIENT ONE

Simple handling for variable use.

- ▶ **Working width: 10 - 24 m**
- ▶ **Volume: 700 l, up to 1,800 l with attachment**
- ▶ **Load capacity: 1,800 kg**



RAUCH MDS are precision fertiliser control systems that combine innovative technology with a unique design. MDS inspires users all over the world with its ingenious single-chamber system and rewards them with precision and economic efficiency in a wide range of applications.

MDS 14.2 - THE SPECIALIST

Perfectly suited for fruit, hop and field cultivation.

- ▶ **Width: 140 cm**
- ▶ **Working width: 10 - 24 m or row fertilisation**
- ▶ **Volume: 800 l, up to 1,200 l with attachment**



MDS 20.2 - THE SMALL ONE QUITE BIG

Efficient work, especially in small structured areas

- ▶ **Working width: 10 – 24 m**
- ▶ **Volume: 900 l, up to 2,000 l with attachment**
- ▶ **Load capacity: 2,000 kg**



SPACE FOR FULL PERFORMANCE - UNIQUE SINGLE-CHAMBER SYSTEM



▶ ONE CHAMBER - COUNTLESS BENEFITS

The RAUCH MDS single-chamber system is a technical masterpiece for efficient working in cropped or small structured areas. No other system offers the farmer this specific performance profile.

▶ EFFICIENT GRAIN BY GRAIN

The complete material to be spread in the hopper is available for fertilising, whether it is spread on both sides or on one side (e.g. when many small fields have to be attended to). In contrast to the two-chamber system, there is no one-sided emptying. The material to be spread can be used highly efficiently.

▶ CAN COPE WITH ANY GROUND PROFILE

Even on slopes there is always sufficient fertiliser above the metering opening. This ensures that fertiliser is applied evenly and as required on any ground. And because the full amount of fertiliser is available now, time and money are saved.

▶ IDEAL FOR ANY OPERATING EQUIPMENT

The single-chamber system allows a very compact design. This enables efficient fertilisation even with a small tractor.



Single-chamber system

The development of MDS began with an idea. How can it be possible to design a spreader that is many things at the same time? Always evenly filled, easy to refill, compactly dimensioned with a perfect centre of gravity, narrow enough, even for small-scale crops and enabling the even supply of fertiliser, even with one-sided spreading. The solution soon became clear to the technical teams. There can only be one - a hopper.

▶ CLEAN WITHIN THE TWINKLING OF AN EYE

Fewer spreading material chambers mean less cleaning effort. MDS is clean again in no time and ready for the next task.

▶ EASY MAINTENANCE

The high proportion of stainless materials and the elaborate powder coating preserve the value and function of MDS for years to come.

▶ ELEGANT CALIBRATION TEST

Since the differences in the types of fertiliser can be considerable, it is the calibration test that ultimately provides certainty. With MDS, that is quick and easy: The quick-release fastener on the ejection discs is released in one easy step, without any effort. This also turns the emptying of residual quantities into a very fast action. The calibration test set is supplied as standard.

▶ GOOD FOR ORGANIC FARMING

All MDS models are also suitable for enabling plant nutrition in organic farming. RAUCH offers spreading charts for approved fertilisers as well as organic fertilisers in pellet or granulated form.



Calibration

VALUABLE FERTILISER NEEDS HIGH-QUALITY TECHNOLOGY - SPREADING PRECISELY ALL AROUND WITH MDS

► The multi-disc system

The disc makes the difference. MDS ejection discs are true all-rounders for a wide range of applications in very different cultivation phases: precise, reliable and convenient in normal fertilising, late fertilising and for yield-optimised spreading at the right or left field boundary. The two disc types M1 and M2 cover the working range of 10 - 24 m.

► Adjustment made easy

Thanks to the clearly visible, three-dimensional position display, the spreader vanes can be easily adjusted in length and angle even after long use. This enables precise spreading patterns with high precision with all types of fertiliser (including organic fertiliser), fine seeds and slug pellets.

► Maintenance free

The heart of the MDS spreader is the maintenance-free oil bath gearbox. All shafts have double bearings. The agitator shaft is made of high-quality stainless steel.

► Maximum degree of efficiency

A slowly rotating agitator finger protects the granulate and ensures problem-free fertiliser run-on due to the low rotational speed of only 180 rpm. Due to the special metering slide shape, both the smallest (from 3 kg/ha) and the largest nutrient doses, e.g. 500 kg KAS at 18 m working width and 10 km/h, are reliably applied. The high disc speed of 980 rpm accelerates the material to be spread to an optimum discharge speed.

► Optimum spreading properties

The granulate is gently transferred to the spreader vane via the metering duct with brushes. Thanks to the special notches on the spreader vanes, even the most pressure-sensitive types of fertiliser retain their spreading properties.

► Border spreading without problems

The European Environmental Standard EN 13739 places strict requirements on the distribution of fertiliser. The RAUCH edge and border spreading systems such as TELIMAT meet these requirements. Furthermore, the precise RAUCH spreading technology complies with the specifications of the environmental standard and at the same time provides the plants with valuable nutrients up to the field boundary. It saves you money.





BOUNDARY SPREADING WITH RAUCH MDS

The **TELIMAT** is a hydraulic, remote-controlled boundary and edge spreading device. It allows precise spreading from the first machine track.

- Switch over to border spreading while spreading, without losing any time
- Easily adjustable to different fertiliser types and machine track systems
- Position display in the operating terminal possible (TELIMAT sensor)

GSE 7 is a manually operated boundary and edge spreading device that enables one-sided (to the left or right) sharp-edged spreading directly from the field boundary. The equipment can be remote controlled on request and can also be combined with TELIMAT.



TELIMAT, boundary spreading from the machine track



GSE 7, boundary spreading from the field boundary

ECONOMIC EFFICIENCY AND PRECISION HAND IN HAND - RELIABLE METERING WITH MDS

TECHNOLOGY ALSO GROWS

For normal fertilising, MDS always remains at a horizontal and constant mounting height. That simplifies the setting. Only for late fertilisation is the upper link slightly shortened. The spreader fan thus develops over the stock in a manner that is gentle to the plants. Damage to the ears or leaves is avoided.

PRECISELY SIDE BY SIDE

The metering slides are opened and closed separately on the left and right sides. **Spreading is even possible on wedge-shaped surfaces with partial width accuracy.**

The easily readable, quantity-proportional DfC scale, unique to RAUCH, allows reliable quantity corrections after a calibration run. No further calibration test is therefore necessary, even in the event of changes in quantity during application in the field.



EVERYTHING IN VIEW

All settings are provided on the front of the container, making them easy to reach, easy to read and outside the dirt area.

Especially the slide position can be checked with the yellow pointer with a view from the tractor cab. That means it is not necessary to get out.



Easily visible DfC scales



VariSpread functions
left/right

Metering slide open/closed

Graphical colour display with
easy-to-read large font

Logical menu navigation
for easy operation

Multi-function keys

The individual slides can be operated in various different ways:

► Proven hydraulic system

In the K and D versions, the individual slides are operated in a single-acting or dual-acting manner by the tractor control unit via hydraulic cylinders. The proven, uncomplicated control system opens and closes the left and right sides separately.

► Electrically convenient

The E-CLICK system in version C provides quick and easy operation via electrical actuating cylinders.

TREND-SETTING ELECTRONICS - QUANTRON-A

Version Q uses the QUANTRON-A metering computer. The electronic slide actuator allows automatic, speed-dependent control. Optionally, QUANTRON-A offers many further expansion options such as the automatic headland and partial width control GPS-Control via the innovative CCI 800.

► Automatic

QUANTRON-A controls the flow quantity so that the selected application rate remains constant, even when the driving speed varies.

► Convenient

All functions can be electrically remote-controlled, reliably and safely with just one hand: Opening and closing the metering slides, quantity adjustment during travel, quantity reduction during boundary spreading.

► Future-proof

With RS 232 serial interface for precision farming

► Efficient

Documentation and storage of operating data for 200 impacts

► Precise

Especially exact and automatic opening and closing of the metering slides in the headline and wedge-shaped fields with optional GPS control.



E-CLICK

FERTILISER APPLICATION TO THE POINT - SAVE FERTILISER WITH MDS



MDS14.2 with RV 2M

ESPECIALLY IN SPECIAL APPLICATIONS

Due to the slim design of MDS 8.2 with 108 cm or MDS 14.2 with 140 cm, these machines are designed exactly for use in special crops with narrow row spacing. The adjustment device is protected at the front of the container, a standard branch deflector prevents the entangling of vines or branches.

PRECISE METERING

The RV 2M row spreading device enables selective nutrient application in the root area of row crops. No granulate falls into the machine track. This saves valuable fertiliser and spares the environment. RV 2M can be easily and variably adjusted to row distances between 2 and 5 m.



Mode of operation of the RV 2M series spreading device

MDS spreaders are indispensable for professional use in fruit, wine or hop cultivation and are perfectly prepared for this task with innovative detailed solutions.



MDS 8.2 with attachment M30

7 IN ONE GO

RFZ 7 is the spreading device specially designed for row crops such as maize, strawberries, vegetables, etc. It allows up to seven rows to be precisely supplied with the desired fertiliser at the same time. RFZ7 can be adjusted to different metering quantities and row spacing in just a few simple steps.

On the one hand, this saves fertiliser and on the other hand, it spares the environment. RFZ 7 is also frequently combined with hoeing machines.

RFZ 7 can be combined with MDS 14.2, 18.2 and 20.2. In addition, older models can be retrofitted.



FERTILISER SPREADING BECOMES A ROUND THING THIS WAY - INDIVIDUAL EQUIPMENT



MDS – ACCESSORIES

The spreader fits perfectly to your wishes and requirements. The exclusive standard equipment can be extended as required. The planned task determines the individual equipment.

- ▶ **Tank attachments for 200 to 1100 l more volume** (depending on model variant)
- ▶ **Tarpaulins** for quick and effective protection of the valuable material to be spread made of durable, weather- and weathering-proof material
- ▶ **VXR spreader vane** with particularly resistant chromium carbide coating for extra long service life for sharp-edged or abrasive material to be spread
- ▶ **Lighting with warning signs** for better protection on public areas and roads
- ▶ **Border spreading devices TELIMAT and GSE**
- ▶ **GPS headland and partial width control with CCI.800**

MDS18.2

MDS

Machine type	Max. capacity		Container size cm	Filling level cm	Filling width cm	Capacity approx. l	Weight kg
	Cat. I	Cat. II					
MDS 8.2	800	800	108 x 108	92	98	500	200
MDS 14.2	800	1400	140 x 115	104	130	800	210
MDS 18.2	–	1800	190 x 120	93	180	700	250
MDS 20.2	–	2000	190 x 120	101	180	900	250

Ejection discs	M1	M1 VXR	M2	M2 VXR
Working width	10 - 18 m	10 - 18 m	18 - 24 m	18 - 24 m
Normal fertilising, late fertilising and edge spreading with one ejection disc				

Attachments**	Container size cm	Filling level cm	Filling width cm	Capacity approx. l	Weight kg
M 30 for MDS 8.2	108 x 108	+ 28	98	+ 300	+ 25
M 21 for MDS 14.2	140 x 115	+ 12	130	+ 200	+ 20
M 41 for MDS 14.2	140 x 115	+ 24	130	+ 400	+ 30
M 430 for MDS 18.2 and 20.2	190 x 120	+ 18	178	+ 400	+ 31
M 630 for MDS 18.2 and 20.2	190 x 120	+ 30	178	+ 600	+ 42
M 800 for MDS 18.2 and 20.2	240 x 120	+ 32	228	+ 800	+ 49
M 1100 for MDS 18.2 and 20.2	240 x 120	+ 42	228	+ 1100	+ 59

** with the Clickfix quick mounting system

Slide actuator variants - required control valves

Version K	Hydraulic slide actuator with 2 single-acting control valves, separated on right/left
Version D	Hydraulic slide actuator with 2 double-acting control valves, separated on right/left
Version C	Electric single slide actuator with E-CLICK, 12 V, separated on right/left
Version Q	Electronic fertiliser metering QUANTRON-A, separated on right/left

Standard equipment

- Slowly rotating, gentle-to-fertiliser agitator finger
- Maintenance-free oil bath gearbox
- Tank bottom, ejection discs, spreader vanes and slides made of chromium-nickel steel (V2A)
- Quick release ejection disc lock for tool-free removal of the ejection disc for easy calibration test and emptying of residual quantity
- MDS 8.2 / 14.2 Cat. I or II, MDS18.2 / 20.2 Cat. II
- Articulated shaft
- Calibration test set
- Protective grille
- Ejection disc guard protects against fertiliser application and meets the safety standard.

Benefits

- 1 pair of ejection discs for normal and late fertilising and edge spreading
- Single-chamber container, no one-sided emptying of the container
- Safe triangular spreading pattern with large overlapping zones
- Horizontal and constant mounting height
- Simplest adjustment to all types of fertiliser, fine seeds and slug pellets
- Slowly rotating, gentle-to-granulate stirring finger (180 rpm)
- Simple metering via the quantity-proportional DfC scale
- Standard, elegant calibration test set
- Half-side switching (manual, hydraulic, electric)
- Value retention due to elaborate powder coating
- Suitable for organic farming
- Slide position visible from tractor



RAUCH homepage

Much more useful information
is available on the RAUCH website

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