



Mounted centrifugal fertiliser spreaders  
MDS 8.2 (W) – 14.2 (W) – 18.2 (W) – 20.2 (W)





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**MDS**

## **COMPACT, HIGH-CAPACITY, SIMPLE**

APPLYING FERTILISER ON SPECIALISED CROPS AND GRAIN CROPS REQUIRES EXTREME PRECISION.

MDS .2 MOUNTED CENTRIFUGAL FERTILISER SPREADERS PROVIDE A SIMPLE SOLUTION THAT IS ADAPTED TO ALL OF YOUR SPREADING OPERATIONS. YOU HAVE A MULTITUDE OF POSSIBILITIES IN TERMS OF SIZE, CAPACITY, OUTLET OPENING AND CLOSING, AND REGULATION. THE SINGLE-CONE HOPPER CAN BE EMPTIED COMPLETELY, EVEN WHEN SPREADING ON SLOPES.



### **A COMPACT, HIGH-CAPACITY RANGE**

Being very compact, MDS 8.2 and 14.2 fertiliser spreaders are capable of weaving in and out of rows easily. They are perfectly suited to vineyards and orchards. Due to their high autonomy, MDS 18.2 and 20.2 models are more adapted to mixed crop- / livestock-type farms.

### **PRECISE, REGULAR SPREADING**

MDS .2 fertiliser spreaders feature a single-cone hopper which ensures a regular flow to the metering outlets on any type of terrain. The slowly rotating agitator provides the spreading discs with a regular flow of granules without damaging them. The high-precision discs are easy to adjust to the product and the working width.

### **WEIGHING WORKS EVERY TIME!**

MDS W fertiliser spreaders are equipped with a weighing frame that can automatically regulate the application rate without needing a calibration test. The machine is controlled using the QUANTRON A terminal.

**MDS 8.2 (W) – 14.2 (W) – 18.2 (W) – 20.2 (W)**

## THE MDS .2 RANGE

### **MDS 8.2 & 14.2: the vineyard / orchard specialists**

Very compact with overall widths of 1.08m and 1.40m respectively, the MDS 8.2 and MDS 14.2 models are designed for closely spaced row crops. They are particularly suited to orchards and vineyards. The «broken» angles of the hopper on the MDS 8.2 model allow for excellent manoeuvring from row to row without damaging crops and plantations.



### **MDS W: another step towards precision, simplicity, and operating comfort**

The four models MDS 8.2 W, MDS 14.2 W, MDS 18.2 W, and MDS 20.2 W are equipped with a weighing frame. They come with all the great features of the MDS .2 range with the additional benefit of being able to regulate the application rate automatically. With this feature, the pre-programmed rate is ensured, even if there are variations in the properties of the fertiliser.



**MDS 18.2 & 20.2: perfect for mixed crop- / livestock-type farms**

MDS 18.2 and 20.2 mounted fertiliser spreaders are designed for mixed crop- / livestock-type farms looking for a simple but high-performance machine. Thanks to a wide range of hopper extensions, they have maximum capacities of 1,800 and 2,000 litres respectively that can be loaded with 3 big bags of 33.5% ammonium nitrate, for example. With such high capacities, these machines have even more autonomy and less downtime for loading.



**MDS** 8.2 (W) – 14.2 (W) – 18.2 (W) – 20.2 (W)

## PRECISE METERING, PERFECT SPREADING



### **Single-cone hopper: multiple advantages**

With compact hopper and centre of gravity close to the tractor, MDS .2 fertiliser spreaders can be used with small tractors. Driving comfort is improved and the soil is preserved. In addition, the single-cone hopper concept creates a uniform fertiliser flow and can be emptied completely, even when spreading on slopes.

### **MDS spreading discs: so much precision!**

MDS spreading discs (Multi-Disc-System) are designed for normal or late top spreading in high crops. They are simple to use and ensure high precision with granular and organic (pellets) fertilisers, cover-crop seeds and slug pellets.



### Choose the agitator you need!

In order to increase spreading precision for any pellet size and density, different agitators are available. Whether you use powder, friable, or sticky fertiliser, we have the solution!

#### Standard agitator



#### Agitator for powder fertilisers



#### Agitator for friable / sticky fertilisers



#### Agitator for seeds



#### Slowly rotating agitator: gentle on fertiliser

A slowly rotating agitator (180 rpm) creates a regular flow to the spreading discs without damaging the granules and without clogging the outlets. This technology ensures optimum spreading precision whatever product is spread!

## QUICK AND EASY SETTINGS

With the KUHN SpreadSet application and the D.F.C. graduated scale (Direct Flow Control) proportional to fertiliser flow, one weight measurement is sufficient for the calibration test! Depending on the chosen MDS version, fertiliser application rate can be adjusted manually using the D.F.C. proportional graduated scale (K, D, and C versions), or directly from the cab with the QUANTRON A terminal (Q and MDS W versions). You can adjust the discs to change the spread fan to adapt to the product and the width you want.



### **D.F.C. graduated scales: perfect settings!**

Two graduated scales are ideally positioned at the front of the hopper for perfect visibility of settings from the tractor cab. To change application rates from one plot to another, there is nothing simpler, just position the arrow to the opening requirement on the D.F.C. scale. The easy-to-read scale is proportional to fertiliser flow; a KUHN exclusive! By increasing the opening by 10 % you increase the application rate by 10%. Half-width shut-off comes as standard too.



### **A simple, user-friendly calibration test**

You can use the KUHN SpreadSet application for the calibration test: enter the product, ground speed, and the required application rate, then adjust the D.F.C. graduated scale to the app's recommended setting. Once the calibration test completed, compare the actual flow rate with the rate indicated by the KUHN SpreadSet app. If a difference is found, no need to weigh the product again! Just change the opening requirement on the D.F.C. scale to the new recommended setting and you're good to go.

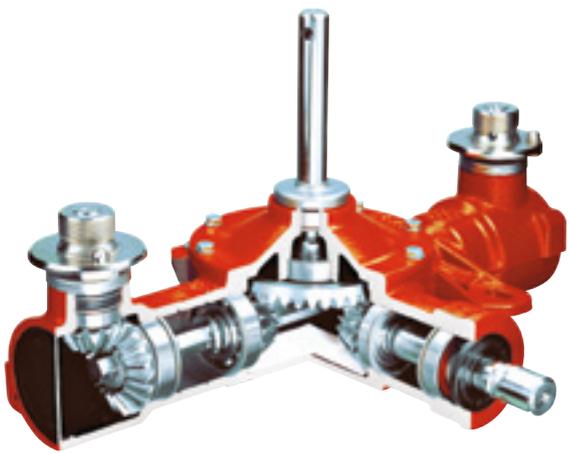


### **MDS spreading discs: fast, effective adjustments**

There are two types of disc: M1 discs for working widths from 10 to 18 m, and M2 discs for working widths from 18 to 24 m, depending on the product. It takes just a few seconds to modify the length and direction of the vanes to precisely adapt the machine to the product and working width.

# WHEN ROBUST MEANS DURABLE

Fertiliser spreaders in the MDS.2 range feature many stainless steel and high-quality powder coated parts making them highly robust and durable. Maintenance and servicing is also easier thanks to the single-cone hopper and discs that are quick to remove, with no tools required.



## No maintenance on the heart of the machine for 10 years!

A reinforced oil-bath gearbox drives the spreading discs. The first gearbox oil change is only necessary after 10 years. The solid heart of the machine boasts unrivalled longevity and the capacity to withstand difficult working conditions. The bottom of the tank, the agitator shaft, and the outlets are made of stainless steel for extreme durability.



## Made to last

Shielding made of composite materials covers the spreading discs and efficiently protects the painted areas of the frame and the hopper. All painted surfaces are shot blasted; nanotech surface treatment is applied and then powder coated with ultra-high quality powder.

**MDS 8.2 (W) – 14.2 (W) – 18.2 (W) – 20.2 (W)**

## BORDER SPREADING

The environment and performance are at the heart of our concerns which is why we offer several systems for you to optimise the management of your borders. Whether you work in vineyards, orchards, row crops or field crops, you will always find a KUHN solution to meet your needs!

### Disc adjustment (as standard)

It is possible to spread in border mode on the side of your choice by modifying the length and direction of the vanes following the KUHN SpreadSet guidelines.

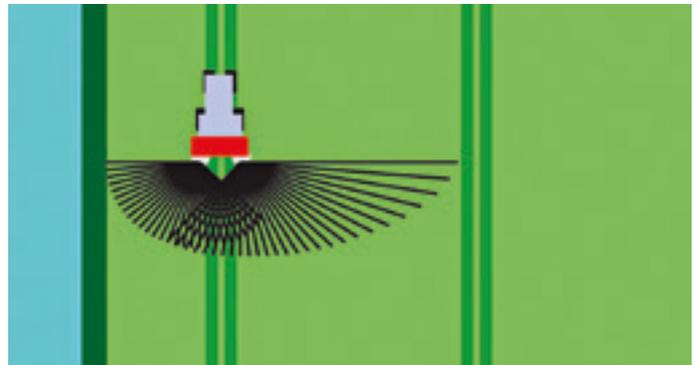
8.2 14.2 18.2 20.2



### To make your life easier, opt for TELIMAT

Control the optional TELIMAT border deflector from your tractor cab with a double-acting hydraulic valve. It allows you to redirect the trajectory of the fertiliser spray, from the disc, along the border. To find out how to change the direction of the vanes, just follow the instructions on your KUHN SpreadSet app!

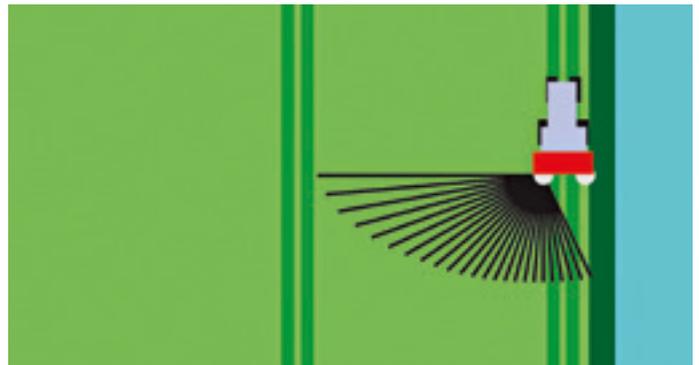
18.2 20.2



### For «performance» and «environment» border spreading, GSE is the solution

The manual GSE border deflector is available as an option. It allows you to spread towards the middle of the plot while driving along the edge of the field. The metering outlet on the border side is shut off. Border distance can be set to 0 to 2 m. It can be equipped with hydraulic remote control as an option.

8.2 14.2 18.2 20.2



## 2-ROW SPREADING

8.2 14.2 18.2 20.2

For working in orchards and vineyards, opt for the stainless steel 2-row spreading deflector. It delivers fertiliser to the base of the plants without granules escaping under the machine. This is a real advantage because it provides your crops (not the spacing between rows) with the perfect amount of mineral nutrition. This optional spreading deflector is easy to fit and set, using a simple pin. It is perfectly adapted to row crops with spacing possibilities of 2 to 5 m.



## 7-ROW SPREADING

14.2 18.2 20.2

As an option, you can equip your MDS .2 spreader with the spreading control kit specially designed for row crops such as maize, strawberries, and vegetables, etc. It supplies fertiliser to up to seven rows simultaneously and with precision. The device is very easy to set in terms of application rate and spacing. And the benefits are felt in respect to the environment and fertiliser savings. The device can be used with MDS 14.2, 18.2 and 20.2. models.



# CONTROLLING OUTLET OPENING AND CLOSING

Different options are available for managing outlet opening and closing. You're sure to find one that suits your needs: single- or double-acting hydraulic cylinders, or an electric cylinder controlled by an E-CLICK or QUANTRON A terminal.

## **K and D versions: hydraulic outlet control**

On the K and D versions, each individual outlet is controlled by a single- or double-acting system from the tractor terminal via two hydraulic cylinders. The single-acting system (version K) is equipped with a quarter-turn valve to isolate the circuit from the hydraulic cylinders in the event of a leak. With the double-acting cylinder (version D), the outlets will not open on their own, even if there is a leak.



*Version K: single-acting hydraulic cylinders*



*Version D: double-acting hydraulic cylinders*

## **C and Q versions: electric outlet control**

To make your life even easier, opt for electric metering with the E-CLICK terminal (version C) or QUANTRON A terminal (version Q). With the E-CLICK control box, you can open and close the right- and left-hand outlets separately, with two switches, directly from the tractor cab. The QUANTRON A control box adapts outlet opening and closing to ground speed (DPAE regulation) and makes it possible to modify working width by adapting the application rate on 8 sections, 4 per side, thanks to the VariSpread 8 system.



*Version C: electric cylinders + E-CLICK terminal*



*Version Q: electric cylinders + QUANTRON A terminal*

**MDS 8.2 W – 14.2 W – 18.2 W – 20.2 W**

## MDS W:WEIGHING WORKS EVERY TIME!

MDS W fertiliser spreaders are equipped with a weighing frame. They come with all the advantages and the versatility of the MDS .2 range with the additional feature of being able to regulate the application rate automatically. The machine is controlled using a QUANTRON A terminal with its numerous standard functionalities such as working-width adjustment of up to 8 sections, with VariSpread 8, and manual application-rate modulation. These functions can be managed automatically when used in combination with an external GPS.



### Another step towards precision

Fertiliser application rate is adjusted every 2 seconds thanks to the continuous modulation system. This ensures that the rate entered is respected right from the first few metres. For low application rates or narrow working widths, such as in orchards and vineyards, static weighing allows the user to readjust outlet opening whenever necessary.

### So simple to use

No need to do a calibration test anymore! The two weighing cells measure the quantity of fertiliser remaining in the hopper at a frequency of 100 Hz. The flow factor is readjusted automatically if required. Just fill the hopper, enter the application rate, and start spreading.

**MDS 8.2 (W) – 14.2 (W) – 18.2 (W) – 20.2 (W)**

## QUANTRON A: VERY PRACTICAL



### Simply the essential

The QUANTRON A control box, for MDS .2 version Q and MDS W spreaders, has numerous functionalities:

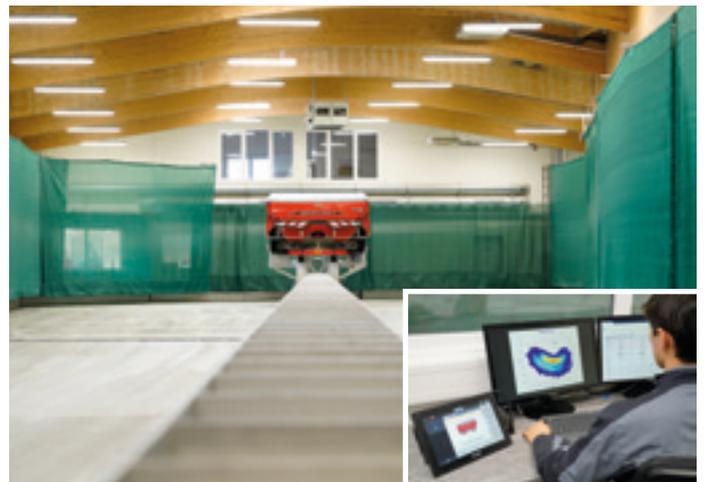
- half-width left/right shut-off,
- working-width adjustment of up to 8 sections with VariSpread 8,
- fertiliser application rate modulation,
- hopper level displayed on the screen (for MDS W models).

When combined with an external GPS, it also allows for automatic working width control and application rate modulation.

### Ever more precision with electronic outlet control (DPAE)

MDS .2 version Q and MDS W fertiliser spreaders feature DPAAE control (electronic flow control proportional to ground speed) with two electric cylinders, one each side. Outlet opening and closing is controlled with a START/STOP button on the QUANTRON A terminal. No need for a hydraulic valve. Application rate is respected, even when there are variations in ground speed.

## USE THE KUHN SPREADSET APPLICATION TO SET YOUR MACHINE!



### The advantages of the KUHN SpreadSet application

Use the KUHN SpreadSet application for calculating the settings in order to ensure the right fertiliser application rate and optimum lateral spread for the type of fertiliser used, working width, and ground speed. The mobile version of the application allows you to transfer the settings to the QUANTRON A control box directly via an optional WIFI module. No manual data entry is required, so no errors are possible!

### Europe's most modern test hall

The data from the KUHN SpreadSet application comes from tests carried out in a state-of-the-art test hall!

- 100 years of experience in fertilisation,
- 1,235 m<sup>2</sup> for working widths up to 75 m,
- 88 fully-automatic collecting trays,
- a fully air-conditioned hall for a controlled environment,
- 3,500 spreading tests carried out every year.

## Technical specifications

	MDS 8.2 (W)	MDS 14.2 (W)	MDS 18.2 (W)	MDS 20.2 (W)
Working width (m)	10 to 24 (depending on disc selection and product)			
Basic capacity / max. with extension (l)	500 / 800	800 / 1,400	700 / 1,800	900 / 2,000
Maximum hopper load (kg)	800	1,400	1,800	2,000
Filling height (cm)	92	104	93	101
Hopper width (m)	1.08	1.40	1.90	
Loading width (m)	0.98	1.30	1.78	
Maximum application rate (kg/min or kg/s)	250 or 4.16			
Outlet control	Version K: 2 single-acting hydraulic cylinders Version D: 2 double-acting hydraulic cylinders Version C: 2 electric cylinders + E-CLICK terminal Version Q and MDS W : 2 electric cylinders + QUANTRON A terminal			
Application rate adjustment	Versions K, D, C: Manual with D.F.C. proportional scale Version Q: Electronic with Quantron A terminal MDS W: Electronic by integrated weighing system with Quantron A terminal			
Agitator speed	180 min <sup>-1</sup>			
Border spreading	Fast vane adjustment ◀ TELIMAT border deflector ◊ GSE border deflector ◊			
Section shut-off	Half width shut-off Versions Q / MDS W: Up to 8 sections with Varispread 8			
Filtering sieve	◀			
Hitch	Drawbar with 2 height positions - Cat. 2			
Gearbox	No maintenance / 540 rpm			
Empty machine net weight, approx. (kg)	200 + 50 kg for MDS W versions	220 + 50 kg for MDS W versions	250 + 50 kg for MDS W versions	

◀ standard ◊ option - not available

## CUSTOMIZE YOUR SPREADER WITH CLIP FIX EXTENSIONS

Extensions with 1.08 m width

8.2



M 30 (300 l)

Extensions with 1.40 m width

14.2



M 21 (200 l)



M 41 (400 l)

Extensions with 1.90 m width

18.2

20.2



M 430 (400 l)



M 630 (600 l)

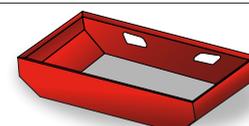
Extensions with 2.40 m width

18.2

20.2



M 800 (800 l)



M 1100 (1100 l)

# MyKUHNN

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## Check out KUHN's range of fertiliser spreaders.



1. MDS: Mounted centrifugal fertiliser spreaders - 2. AXIS: Mounted centrifugal fertiliser spreaders - 3. AXENT: Trailed centrifugal fertiliser spreaders - 4. AERO 32.1: Mounted pneumatic fertiliser spreaders - 5. AERO GT: Trailed pneumatic fertiliser spreaders

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