



# KNIFE ROLLERS



**INNO**MADE

Made in Germany

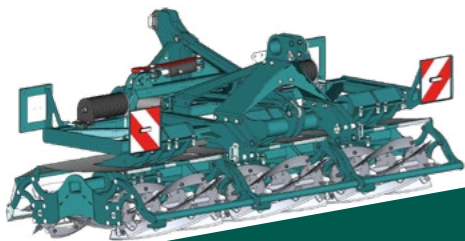
# Stubble and Cover Crop Management

With the **INNO MADE** knife roller, stubble and cover crops can be efficiently shredded and broken up – even at driving speeds of up to 25 km/h. This ensures high operational efficiency with low energy input. As such, the knife roller is a powerful yet resource-efficient tool for ultra-shallow soil cultivation throughout the year.

The knife roller is particularly effective in shredding maize stubble, where it demonstrates its strength and contributes significantly to reducing the corn borer population. The fine shredding of plant residues reliably destroys the pest's habitat. At the same time, shallow incorporation supports the rapid decomposition of organic matter, thereby accelerating the rotting process.

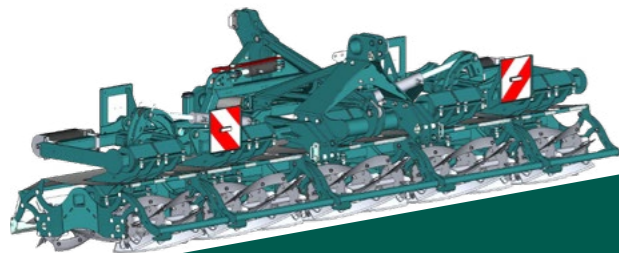


## Model Overview



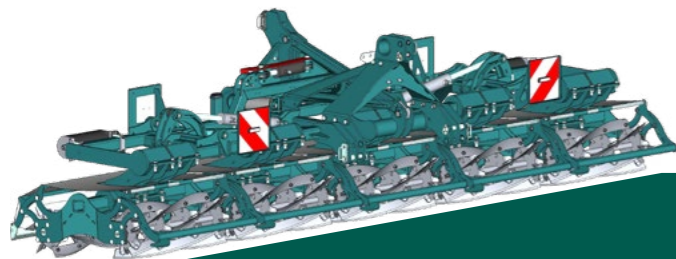
effective working width 295 cm ◦ front and rear linkage ◦ three-point Cat. II & III

### MW 300



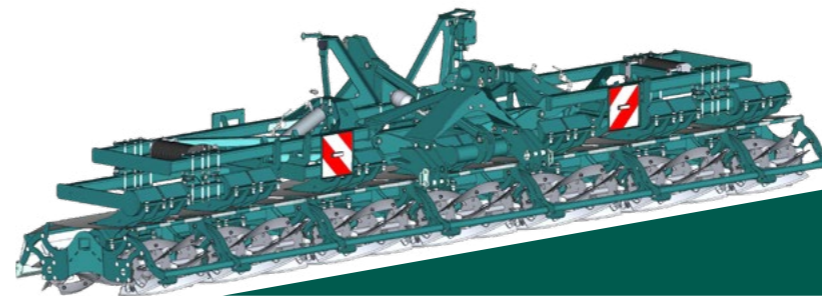
effective working width 435 cm ◦ front and rear linkage ◦ three-point Cat. II & III

### MW 400



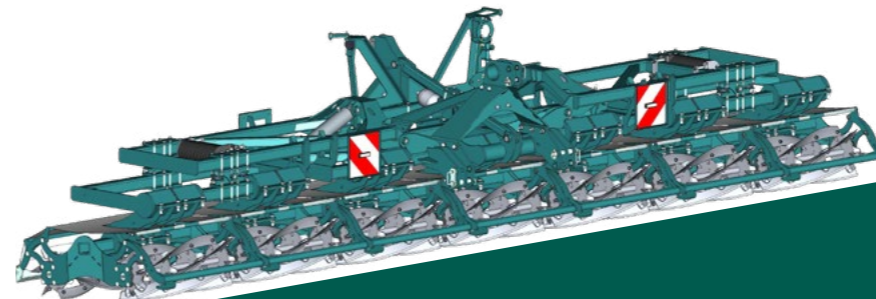
effective working width 490 cm ◦ front and rear linkage ◦ three-point Cat. II & III

### MW 500



effective working width 630 cm ◦  
front and rear linkage ◦ three-point Cat. II & III

### MW 600



effective working width 680 cm ◦  
front and rear linkage ◦ three-point Cat. II & III

### MW 700



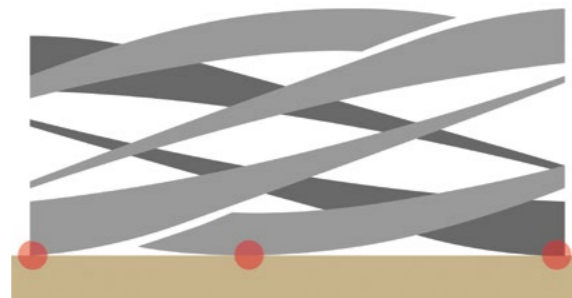
effective working width 1265 cm ◦  
rear linkage ◦ lower linkage

### MW 1250

# Knife Geometry

## Maximum Cutting Performance Thanks to Special Knife Geometry

The strongly helical twist of the knives on the **INNO MADE** knife roller ensures that the machine's high weight is concentrated on only a few points along the cutting edges at any given time. This significantly enhances cutting intensity, even under challenging conditions. Made from hardened boron steel (>45 HRC), the knives are especially robust and resistant to foreign objects such as stones.



Another functional detail are the openly designed knife baskets featuring V-shaped openings between the knives, allowing loose material to exit quickly. In combination with the flexible protective tarpaulins, this effectively prevents material buildup and potential blockages.

The durable fabric tarpaulins also serve to protect the tractor and operator from ejected debris.



## Seamless Cutting with Double Roller

Two roller bodies, each with a diameter of 370 mm and equipped with six knives, operate in tandem with a slight lateral offset. This ensures a seamless cut across the entire working width. The oppositely twisted knives create a distinctive diamond-shaped cross-cut pattern with an average theoretical cutting length of 9.5 cm – delivering intensive and uniform shredding.



## Working Speed

- The knife roller achieves its optimal performance at speeds starting from 19 km/h. Thanks to the integrated front bar, even though stubble and plants are already fractured by the high impact energy and precisely laid down for cutting. The result: intensive shredding and ideal preparation for subsequent operations.

The **INNO**MADE knife roller offers users maximum control over the intensity of processing. A key lever for this is the driving speed, which significantly influences how thoroughly plants and crop residues are processed.

- At significantly lower speeds around 10 km/h, plants are mostly just bent and slightly damaged – an agronomically valuable approach in certain cases, such as promoting soil cover or managing decomposition processes.

This flexibility in operating speed allows the knife roller to be combined with other implements in a single pass, such as in the example shown with the **INNO**MADE disc harrow. This makes the knife roller a highly versatile tool for ultra-light soil cultivation throughout the year.





Corn Stover



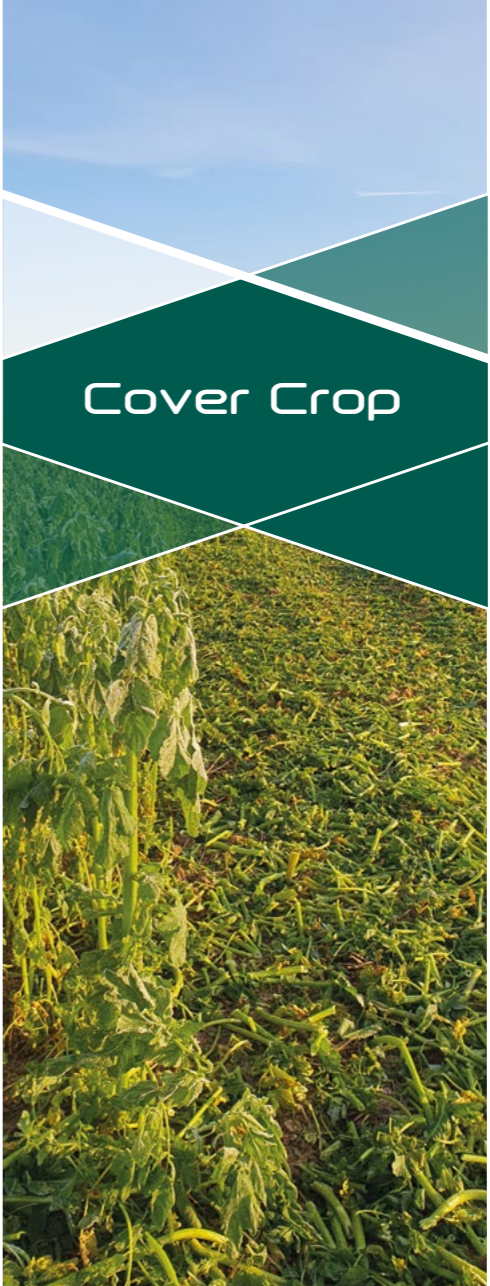
Corn for Silage



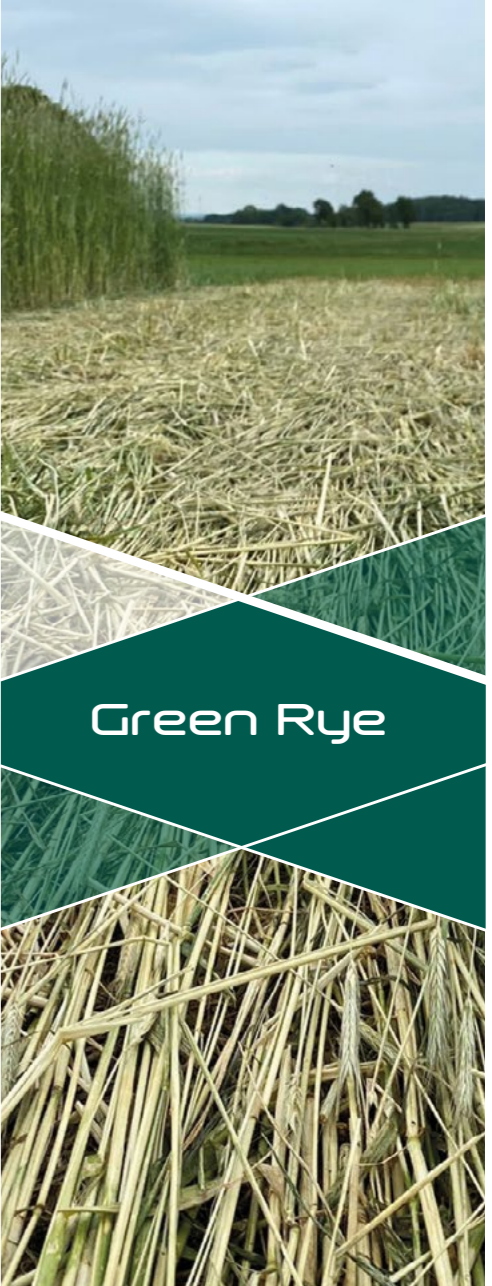
Sunflower



Rapeseed



Cover Crop



Green Rye



## CONTOUR ADAPTATION



The **INNO**MADE knife rollers consist of approximately 1-meter-wide tandem knife units, each made up of two knife shafts operating in sequence. Thanks to the double-sprung coupling arm, the tandem knife units can move independently and adapt individually to the ground contours. This ensures consistent ground contact, optimal adaptation to terrain variations, and a uniform cutting pattern – even under changing and highly demanding conditions.

## MW1250

In addition to its cutting performance, the MW1250 stands out for its cost-efficient area output. Under standard conditions and on level ground, the knife roller processes approximately 24 hectares per hour at a machine-friendly working speed of 19 km/h, with fuel consumption ranging between 1.5 and 2 liters of diesel per hectare.



Thanks to its folding-swivel mechanism, the largest model of the **INNO MADE** knife rollers achieves a transport width of 2.65 meters and an overall length of 7.55 meters.



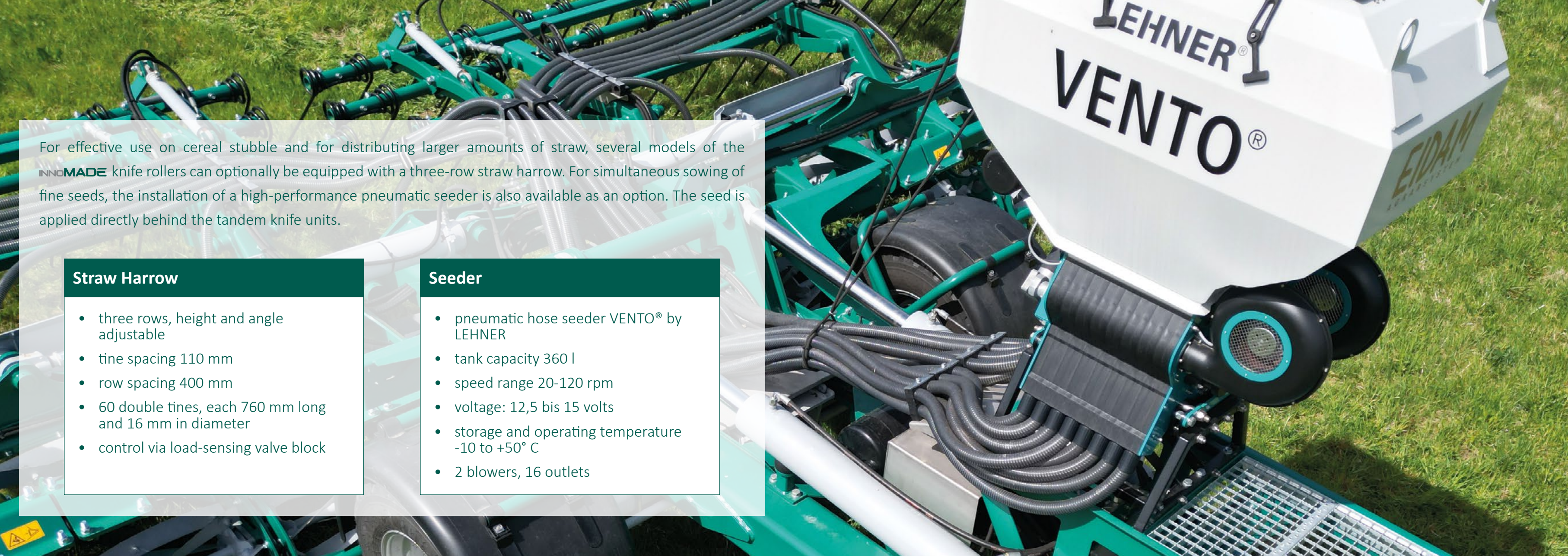
The MW1250 comes standard with a lower link hitch including hydraulic locking. This ensures safe stabilization of the knife roller during folding and unfolding – especially under negative tongue load.

The lower link mounting also offers practical advantages: it allows flexible height adjustment, for example when crossing roads with elevation differences, and easy adaptation of the working pattern.



Both the folding and unfolding of the side sections, the locking of the lower links, and the adjustment of the harrow are conveniently controlled from the driver's cab via a central control unit and hydraulic load-sensing (LS) valve block.

The hydraulic pressure on the side sections is also regulated via the factory-preset control block.



For effective use on cereal stubble and for distributing larger amounts of straw, several models of the **INNO****MADE** knife rollers can optionally be equipped with a three-row straw harrow. For simultaneous sowing of fine seeds, the installation of a high-performance pneumatic seeder is also available as an option. The seed is applied directly behind the tandem knife units.

### Straw Harrow

- three rows, height and angle adjustable
- tine spacing 110 mm
- row spacing 400 mm
- 60 double tines, each 760 mm long and 16 mm in diameter
- control via load-sensing valve block

### Seeder

- pneumatic hose seeder VENTO® by LEHNER
- tank capacity 360 l
- speed range 20-120 rpm
- voltage: 12,5 bis 15 volts
- storage and operating temperature -10 to +50° C
- 2 blowers, 16 outlets

# Technical Data & Equipment Options

Model	MW300	MW400	MW500	MW600	MW700	MW1250
Working width [cm]	295	435	490	630	680	1.265
Transport width [cm]	298					265
Folding	—	180°		90°		folding-swivel
Hitch type	three-point Cat. II & III					lower link
No. of tandem knife units	3	5		7		13
Min. pulling power req. [PS]	100	150		200		250
Adjustable Front bar	✓					
Dual-circuit pneum. brake syst.	—					✓
Base machine weight [kg]	900	1.520	1.590	2.350	2.400	6.900

To minimize wear and reduce maintenance requirements, all **INNO****MADE** knife rollers – except for the MW300 model – are equipped as standard with high-quality, lifetime-lubricated bearing units. These special bearings operate without grease nipples, eliminating the need for regular re-lubrication and signifantly reducing maintenance effort for the user.

Three-Point Machines	Equipment Options	MW300	MW400	MW500	MW600	MW700	Weight [kg]
	Protective tarpaulins for knife units	✓					–
	Rear mounting frame	✓					65
	Warning sign kit with lighting for rear mounting	✓					16
	Fixed front mounting frame	✓					110
	Swiveling front mount. frame (+1 double-acting hydr. conn.)	✓			—		153
	Warning sign kit with lighting for front mounting	✓			—		16
	Additional ballast 2 x 50 kg	✓			—		100
	Hydraulic pressure application	—			✓		–
	Three-row harrow	✓	—	✓	—	✓	290   636   950
	Pneumatic seeder (360 l with 16 outlets) including frame	✓	—	✓	—	✓	135

Towed Machines	Equipment Options	MW1250				Weight [kg]
	Hydraulic pressure application	✓				–
	Control unit and hydraulic load-sensing valve block	✓				–
	Three-row harrow	✓				1.456
	Pneumatic seeder (360 l with 16 outlets) including frame	✓				232
	Lower link hitch	✓				300
	K80 tow ball coupling	✓				30
	Pull mouth	✓				10



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*„The knife roller combines effective details for chopping plants. Apparently, the developers have observed the market for a long time and have now delivered.“*

*profi, Magazine for Professional Agricultural Technology, November 25, 2021*

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