

**Müthing**



## SPECIAL CROPS

**MULCHERS FOR FRUIT AND WINE  
GROWING AND OTHER SPECIAL CROPS**



## PROFESSIONAL SHREDDING IN SPECIAL CROP PLANTATIONS

### Optimal mulching with Müthing

Thanks to users like you, with whom we maintain an ongoing dialogue, we are able to build mulchers that meet both the tough demands of day-to-day use and your requirements.

We are a family-run company from Germany. At our site in Soest, we design and develop pioneering mulchers that are a pleasure to work with.

Agriculture, landscaping or special crops - operating reliability and the best mulching result regardless of where and how you want to work. Every Müthing mulcher is a specialist when it comes to first-class mulching quality and shredding.

You can rely on our mulchers because ultimately we build machines for you and your needs.



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# WHY MULCHING



## MULCHING: AN EFFICIENT METHOD FOR MANAGING GREEN GROWTH AND CHOPPED WOOD IN SPECIAL CROPS

Work results matter, not only for wine and fruit growers, but also for vegetable growers and direct marketers.

It is essential that all kinds of trimmed wood and green growth are completely shredded. One reason to do so efficiently is that this aids the natural processes of nature:

- (Subsequent) chemical-free management work can be carried out with reduced impact on material quality and without the risk of blockages, since coarse crop material has already been shredded into smaller pieces during the mulching process
- Neat crops – the area is kept short and tidy and unwanted material is less able to adhere
- Preventative crop protection by removing the basic food source from fusaria and insect pests
- Prevention of erosion caused by leaving chopped wood on the ground
- An equalised water balance maintained by a mulching process that limits the growth of greenery
- Finely mulched areas provide less cover, offering less protection for rodent pests
- Humus formed by the accumulation of nutrients from the mulch that remains on the ground
- The improved soil structure makes it easier to traverse the land
- Work is made easier, for example because chopped wood no longer has to be manually removed from the plantation
- Organic matter decomposes more quickly due to the enlarged surface area

Non-intensively landscaped areas require sturdy mulchers that can manage large quantities of plant material, while intensively landscaped areas require an excellent cutting pattern. Mühling's extensive range of mulchers has the right mulcher in the requisite working width for virtually any shape of field, enabling optimal results across all applications.

Mühling mulchers can be adapted to your exact requirements, whether you are aiming to achieve a less precise but economical result on non-intensively maintained land or need to efficiently achieve a perfect result on intensively maintained land.

# MULCHING IN SPECIAL CROPS, FRUIT GROWING AND WINE GROWING



**Fruit growing and tree nurseries** need vegetation cleared from wooded or forested areas, chopped wood and green growth to be finely mulched in order to facilitate rapid decomposition. This necessitates an adaptable, durable mulcher.



**Wine growing** in consideration of the environment requires a mulcher that is suitable for universal use. To cater for the many different row widths, we offer a wide range of narrow mulchers that will not damage the crop or the climbing supports. Chopped wood and green growth between the rows must also be reliably picked up and shredded.



**Vegetable growing** often involves dealing with the remnants of the previous crop, which must be optimally shredded so that the following soil preparation, seeding or planting can take place without any issues.



**Strawberry, blueberry and raspberry** crops need to be kept under control. Efficient topping with a mulcher makes this work easier. When marketing directly to customers, pathways that allow access for picking fruit should be maintained with a mulcher so that they are visually appealing.



**Hops** – catch crops cultivated here for the purpose of sustainable farming and the formation of humus prevent erosion and retain nutrients. Shredding them makes them available for the main crop again. Adapted mulching in autumn is an easy way of stopping growth in its tracks. In the spring, decomposition is speeded up through intensive shredding.



**Green corridors** that act as a boundary between pathways and fields have a high ecological value. Alongside a wide variety of insects, many wild herbs can also be found here. Mulching shortly before the plants run to seed reliably prevents the seed from entering the field. Intensive shredding allows the plants to grow through quickly and the plantation margins regain their lush green appearance.

# MÜTHING MULCHERS IN DETAIL

## WHY MÜTHING MULCHERS CAN DO MORE

The individual details come together to make a Müthing mulcher perfect for use on your land.



**1. Highly tempered spring steel flaps with swing protection** provide safety for you, your colleagues and your tractor. They hold back foreign objects reliably and reduce damage.



**2. The TÜV NORD thrown object test** is your assurance that we have done everything possible to ensure the safety of you and other people within the operating area of the mulcher. The safety clearances are thus reduced to 2 m alongside the machine and 8 m in front of and behind the machine.



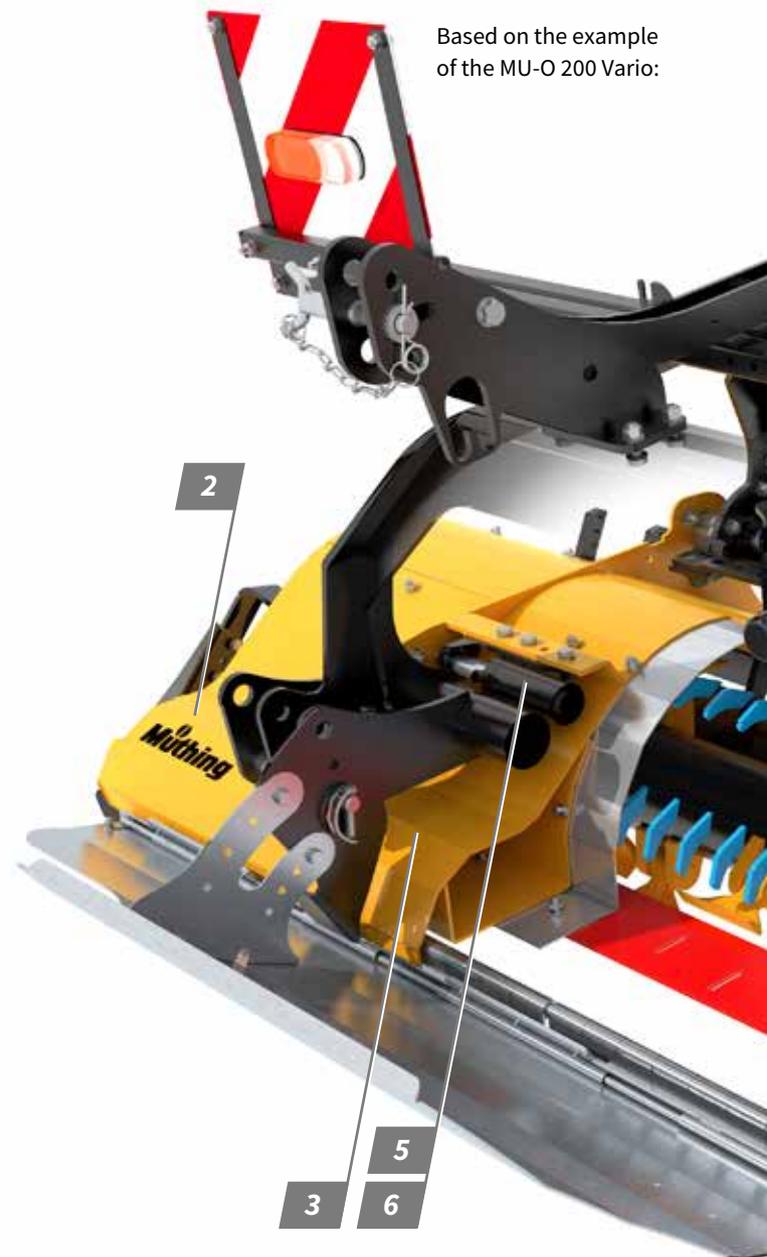
**3. Fine-grain steel** is the material that is used to make Müthing mulchers. Its outstanding wear properties coupled with its high strength enable us to produce lightweight machines, reducing the load on both the tractor and the ground.



**4. Shark fins** ensure uniform shredding. Long material is fed through the rotor in a second step in the crop flow, whereas material that is already shredded passes through. The result is a homogeneous mulch. These fins are self-cleaning and can be replaced.

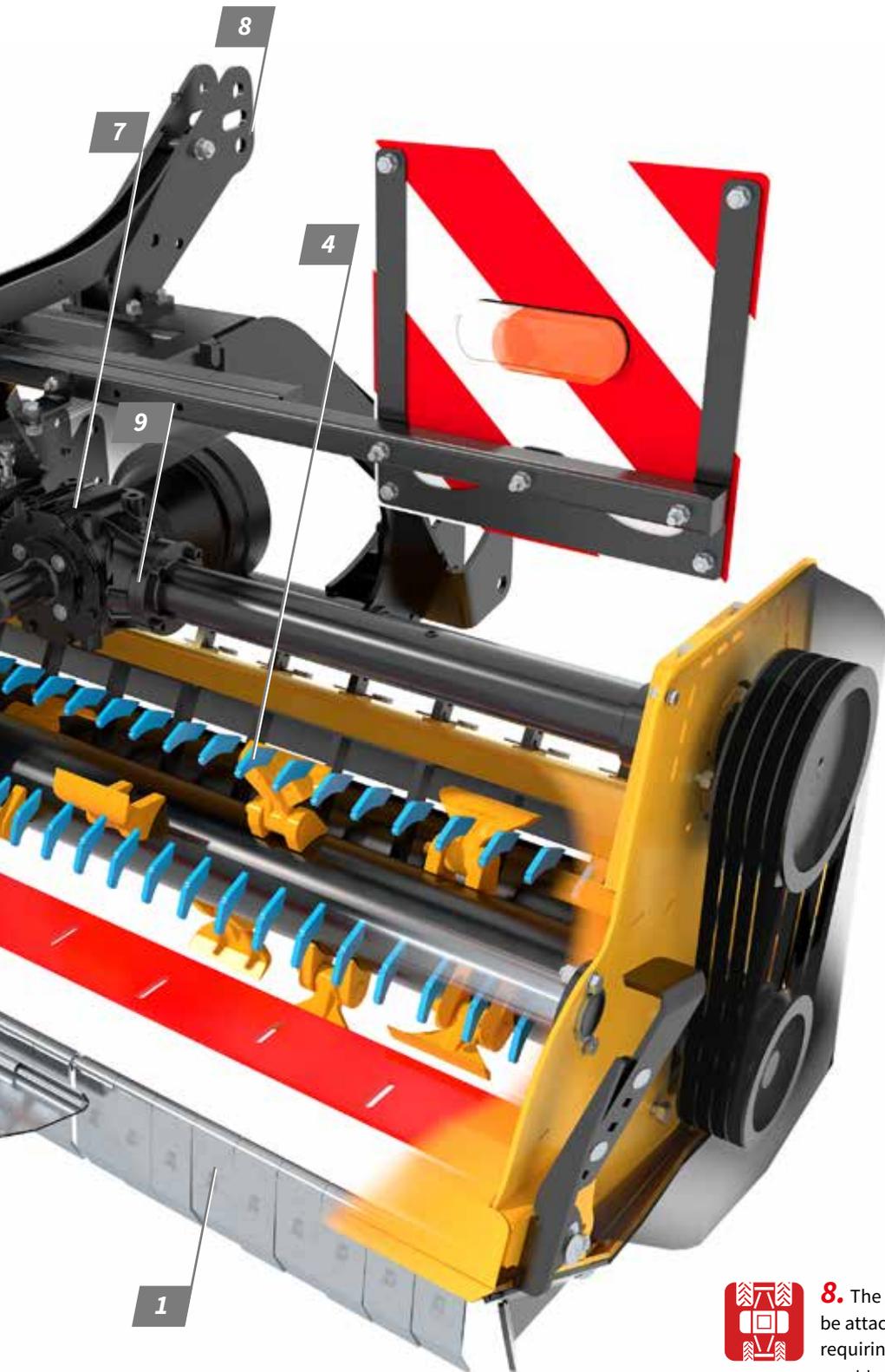


**5. Mechanical side shift** allows the mulcher to be adjusted to the tractor track or allows the unit to be offset to the side. The adjustment can be made manually for a constant working position without any further requirements on the tractor.



**6. Hydraulic side shift\*** makes it possible to work around posts and trees or operate the mulcher outside of the tractor track. On the edges of tracks or embankments, the tractor remains on a passable surface while the mulcher can operate alongside it.

# KEY FEATURES THAT MAKE ALL THE DIFFERENCE



**7.** The **freewheel in the gear box/hydraulic motor** protects the rotor from abrupt braking and the tractor from excessive torque when shutting off the PTO shaft. Incorrect operation of the drive system is no longer possible.



**8.** The **front-rear headstock\*** allows machinery to be attached in front of or behind the tractor without requiring any additional work. Decide whether you want to attach the machinery at the front or at the rear depending on the task and tractor.

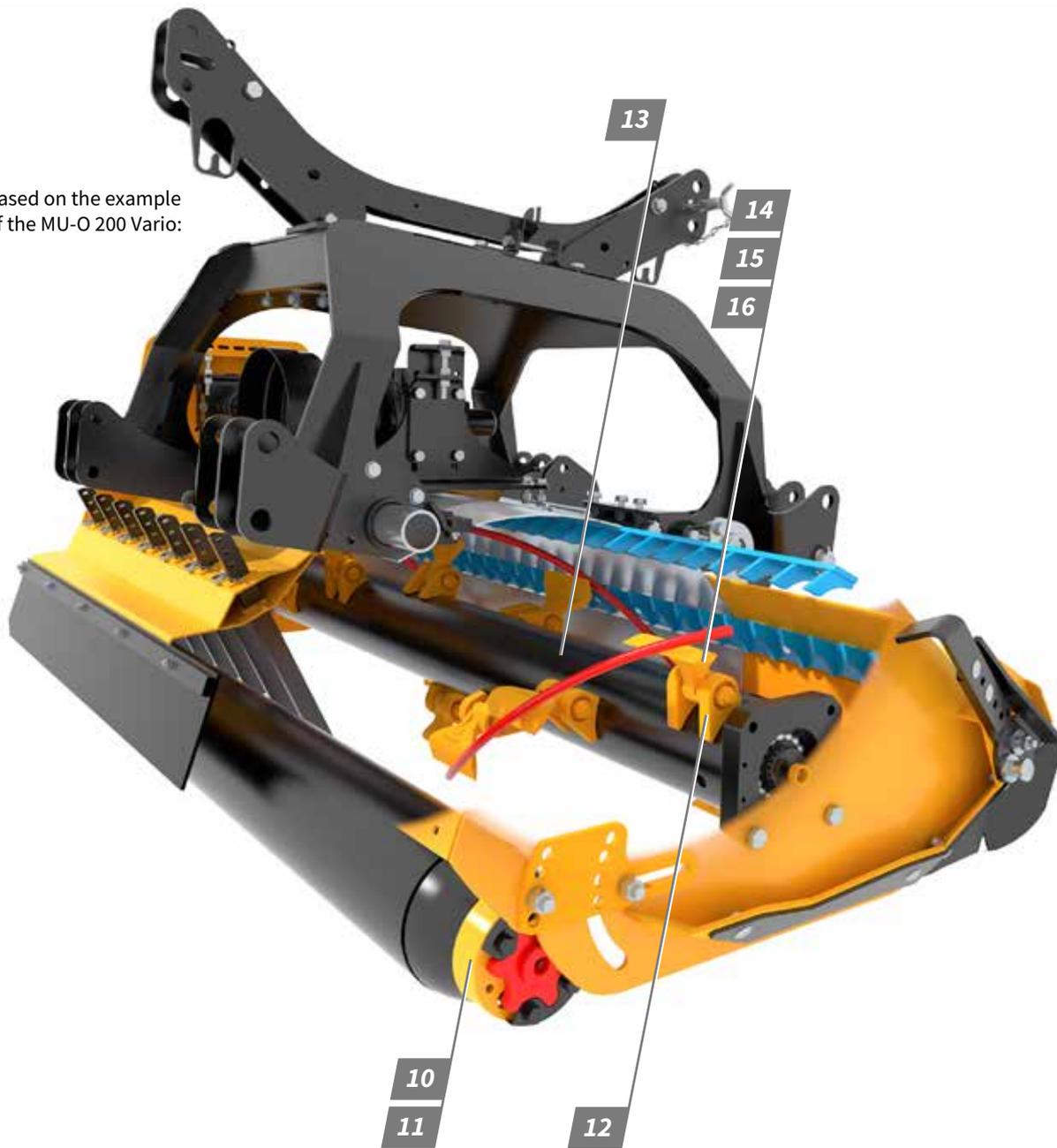


**9.** The **synthetic oil supply** ensures that the machinery is always well lubricated and provides excellent temperature resistance as standard.

(Optional in some cases\*)

# MÜTHING MULCHERS IN DETAIL

Based on the example  
of the MU-O 200 Vario:



**10. Starinth® rear roller bearing** is the heavy-duty rear roller bearing of MÜthing. With lifetime lubrication, the bearing is protected by a labyrinth seal and housed in a unit which is mounted in a star-shaped contour to prevent twisting. Impacts on the bearing are minimised by the star-shaped contour and the service life of the bearing is thus optimised.



**11.** The **vertically adjustable support roller** makes it possible to set the machinery to different working depths. Crop remnants that are mulched to a minimum can be achieved just as easily as lush green sward.



**12. Tangential tool holders** lift the rotor over obstacles and thus protect it from imbalance. The connection to the rotor is improved by the longer weld seam, which prevents the tool holders from breaking off.

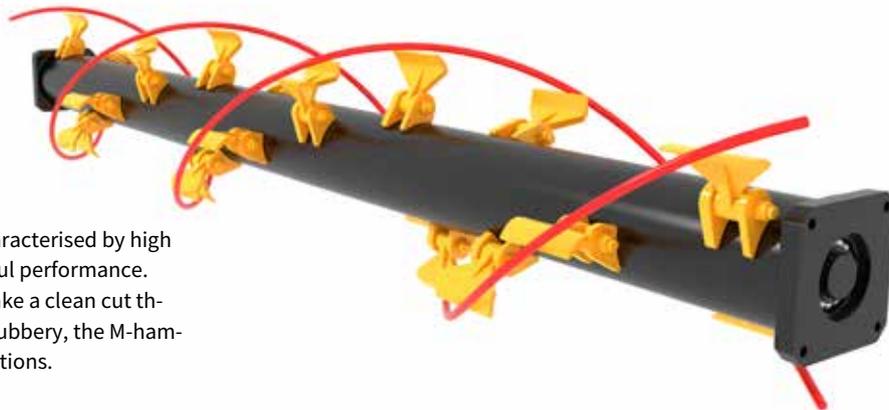


**13. Twin-spiral rotor** ensures smooth operation of the rotor. This reduces fuel consumption, while also reducing the load on the drive line at the same time. This extends the service life of the gear boxes and PTO shafts. The internal bearing and wide bearing shells provide protection against foreign objects and perform an anti-wrapping function.

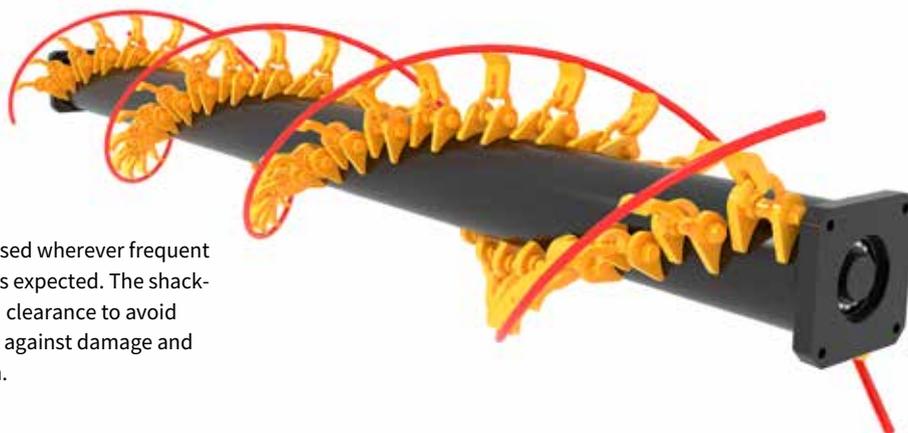
# KEY FEATURES THAT MAKE ALL THE DIFFERENCE



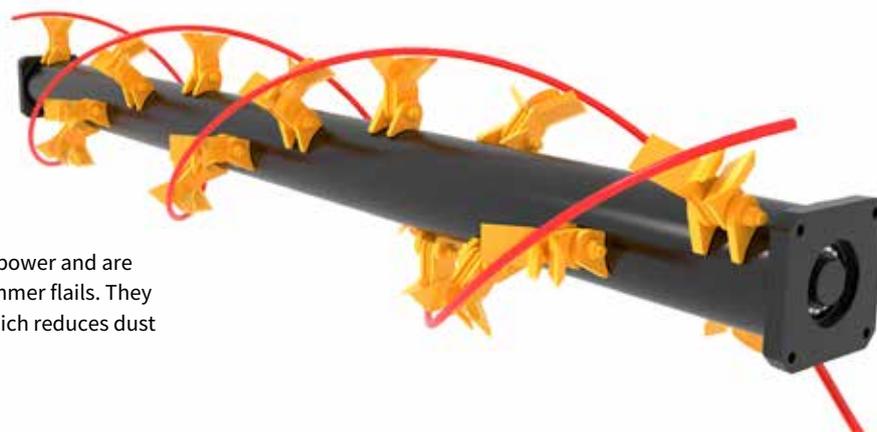
**14. M-hammer flails** are characterised by high resistance to wear and powerful performance. Whether you are looking to make a clean cut thorough grass or shred some shrubbery, the M-hammer flail gives you plenty of options.



**15. M-shackle flails\*** are used wherever frequent contact with foreign objects is expected. The shackles give the flails the required clearance to avoid foreign objects. This protects against damage and allows trouble-free operation.



**16. Triple Y-blades\*** use less power and are interchangeable with the M-hammer flails. They generate less air movement, which reduces dust impact.



# MÜTHING MULCHERS IN DETAIL

## THE MU-VARIO® SYSTEM FROM MÜTHING



**17.** The **MU-Vario® system** allows you to adjust the mulcher to your conditions with an optimised intake and housing geometry and infinitely variable cutting and shredding settings.

Component of the MU-Vario® System:



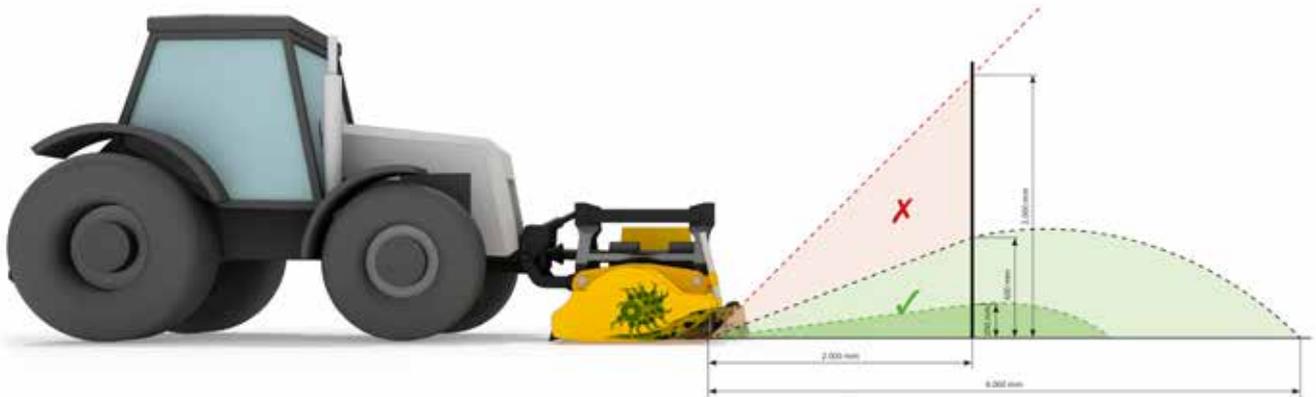
For all conditions and requirements the right processing,  
thanks to the continuously variable cutting bar.

# THROWN-OBJECT TEST CERTIFIED BY TÜV NORD



## STAY ONE STEP AHEAD WITH CERTIFIED SAFETY!

- Europe's agricultural machinery manufacturers have to manufacture their machines in accordance with CE machinery directives.
- Applying the CE marking is a self-declaration of compliance with the CE directives.
- One of these CE machinery directives is entitled: "Thrown-object test and acceptance criteria for flail mulchers as per ISO/WD 17101-2".
- We went one step further and commissioned an independent, accredited institute - TÜV Nord - to assess and certify our compliance with this machinery directive.



## YOUR ADVANTAGE: MAXIMUM SAFETY AND WORRY-FREE OPERATION

With observation of the safety clearances of 8 metres towards the front and rear and 2 metres towards the right and left.



# MU-W

## OPTIMISED FOR USE IN WINE, VEGETABLE AND HOP GROWING

- Year round usage on chopped wood and green growth, and for trimming vines
- The compact design with a depth of 1 m and low centre of gravity allows you to work safely on slopes and easy manoeuvre on small headlands
- Extremely narrow: The transport width is the working width + 8 cm
- Extremely robust: Impact guard and angled V-belt protective cover
- All screws and bolts have rounded heads to prevent crop damage
- Customised working width for your application
- Rear or front mounting possible (optional)



Driving power in hp:

35 90

0 hp

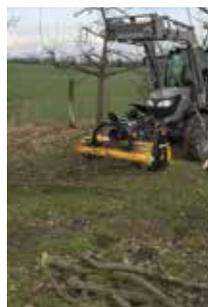
150 hp

Working width in metres:

1.0 | 1.2 | 1.3 | 1.4 | 1.5 | 1.6 | 1.8 | 2.0

1.0 m

3.0 m



# THE COMPACT CLASS FOR CLOSELY PLANTED ROW CROPS



Chopped-wood rakes reliably collect chopped wood, including in the tractor track, thanks to their rapid depth adjustment (optional).



The replaceable wearing plate (optional) affords a long service life.



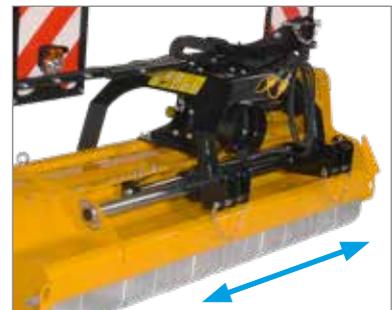
The narrow, vertical wearing skirts at the sides prevent any shearing action or damage to the crop due to drifting on slopes.



Robust Cat. 1+2 headstock as standard for front or rear attachment.



Usage in front and rear possible with Cat. 1+2 headstock (optional).



Hydraulic side shift allows flexibility between rows and at the headland (optional).



Improved steering capability and traction with front-mounted attachment thanks to the front shock-absorbing linkage springs (optional).



Increased lift for the mulcher to cater for tractors with a low coupling height (Cat. 1+2) (optional).



Gear box with twin freewheels enables use on tractors with different PTO stub shaft rotational directions (optional).

## Technical Specifications

MU-W	100	120	130	140	150	160	180	200
Working width (cm)	100	120	130	140	150	160	180	200
Transport width (cm)	108	128	138	148	158	168	188	208
PTO shaft speed* (rpm)	540 / 1.000	540 / 1.000	540 / 1.000	540 / 1.000	540 / 1.000	540 / 1.000	540 / 1.000	540 / 1.000
Weight (kg)	320	375	390	405	425	450	490	525
Number of M-hammer flails	8	10	10	12	12	14	16	16

# MU-O Vario

## SPECIAL APPLICATION: FRUIT GROWING AND OTHER SPECIAL CROPS

- The compact design and robust construction with a low centre of gravity allows you to work safely on slopes and easy manoeuvre on small headlands
- The reinforced rotor is able to withstand even extreme loading
- MU-Vario® System as standard
- Customised working width for your application
- Rear or front mounting possible (optional)
- Long service life thanks to the internal Starinth® rear roller bearing system



Driving power in hp:



Working width in metres:



# VERSATILE AND ROBUST, FOR HEAVY-DUTY AND LIGHT-DUTY APPLICATIONS



Chopped-wood rakes reliably collect chopped wood, including in the tractor track, thanks to their rapid depth adjustment (optional).



MU-Vario® for an optimised intake and housing form and continuously variable shredding rates. The result is ideal mulch quality and shredding performance.



Specially shaped wearing skirts and the durable material deflector plate optimise the material flow (optional).



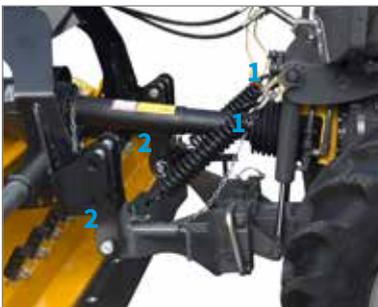
Hydraulic side shift affords flexibility between rows and on the headland (optional).



All it takes to adjust the support roller is to reposition it vertically, allowing it to be used in grassland and for shredding chopped wood.



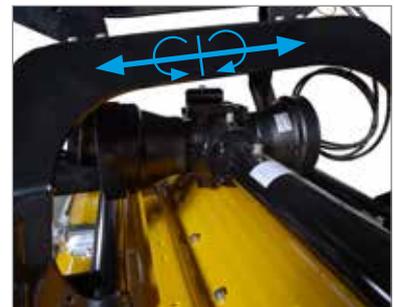
The replaceable wearing plate (optional) guarantees a long service life.



Improved steering capability and traction with front-mounted attachment thanks to the front shock-absorbing linkage springs (1) and increased lift (2) for the mulcher to cater for tractors with a low coupling height (Cat. 1+2) (optional).



Additional hydraulic accessories such as the chopped-wood rake, cutting disc and string cutting head make the machinery suitable for many different uses (optional).



Gear box with twin freewheels enables use on tractors with different PTO stub shaft rotational directions (optional).

## Technical Specifications

MU-O Vario	160	180	200	220	250
Working width (cm)	160	180	200	220	250
Transport width (cm)	177	197	217	237	267
PTO shaft speed* (rpm)	540 / 1.000	540 / 1.000	540 / 1.000	540 / 1.000	540 / 1.000
Weight (kg)	625	660	690	760	810
Number of M-hammer flails	14	16	16	18	22

# SERVICE

## RELIABILITY AS STANDARD

### The foundation of durability

Even in the early design phase of a Müthing mulcher, reliability is one of the most important development criteria for us.

Irrespective of whether the equipment is being used to manage seasonal peaks, for tough day-to-day tasks or for intensive and continuous operation. We want you to be able to depend on your Müthing mulcher - right from the beginning.

### Fast assistance

This means we provide you with straightforward assistance as fast as possible – exactly when you really need it. To ensure that your Müthing mulcher is back up and running again quickly.

### Genuine spare parts

Müthing spare parts are designed to uphold our quality promise. Our selection of outstanding components ensures a long service life.

High-quality spare parts are available for every mulcher. And they will be for a very long time after you have decided to purchase a Müthing mulcher.

You can count on us. With Müthing genuine spare parts, we will quickly provide a long-lasting solution to your emergency.



# WHEN THE WORK CANNOT WAIT



## CORE EXPERTISE: SMOOTH-RUNNING ROTORS

The centrepiece of every mulcher is the rotor with its tools. The smooth running characteristics of a rotor have a strong influence on its service life, uniformity of work results and continuous power demand. Every Muthing rotor is designed to maintain these characteristics for a long time, even under heavy duty usage.

But if the worst comes to the worst and your rotor is damaged by foreign object, an imbalance can occur. With our in-house balancing machine, our service team can help you quickly and without complication.

### Our service for you:



In-house balancing machine



Experienced experts



Muthing genuine tools sorted into 3 weight stages (20 grams each)

# TECHNICAL DATA

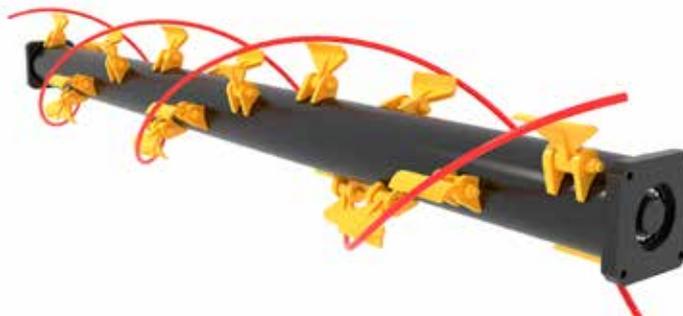
	MU-W	MU-O Vario
<b>Dimensions and weights</b>		
Working width (cm)	100   120   130   140   150   160   180   200	160   180   200   220   250
Transport width (cm)	108   128   138   148   158   168   188   208	177   197   217   237   267
Weight (kg)	320   375   390   405   425   450   490   525	625   660   690   760   810
<b>Driving power</b>		
Power demand* from -to (HP)	35 - 75 / 90	35 - 100 / 130
PTO shaft speed* (rpm)	540 / 1.000	540 / 1.000
Freewheel	■	■
Number of V-belts	1 reinforced toothed belt	4
<b>Mounting</b>		
Front	<input type="checkbox"/>	<input type="checkbox"/>
Rear	<input type="checkbox"/>	<input type="checkbox"/>
Front-Rear	Cat. 1+2	Cat. 1+2
Lower-link extensions	<input type="checkbox"/>	<input type="checkbox"/>
Mechanical side shift	<input type="checkbox"/>	■
Hydraulic side shift	<input type="checkbox"/>	<input type="checkbox"/>
Control devices	min. 1 DA	min. 1 DA
<b>Rotor</b>		
Diameter (cm)	14	16
Effective diameter (cm)	40	42
Number of tools (provided as standard)	8   10   10   12   12   14   16   16	14   16   16   18   22
M-hammer flail	■	■
M-shackle flail	<input type="checkbox"/>	<input type="checkbox"/>
Triple Y-blade	<input type="checkbox"/>	<input type="checkbox"/>

\* Some model series can be converted from 540 rpm to 1000 rpm, which makes higher driving powers permissible - in these cases you will see two horsepower values.

- Not available    ■ Provided as standard    □ Optional



**M-hammer flail**



Some illustrations show optional equipment.

The right to technical revision is reserved. Illustrations may not show the latest production version.

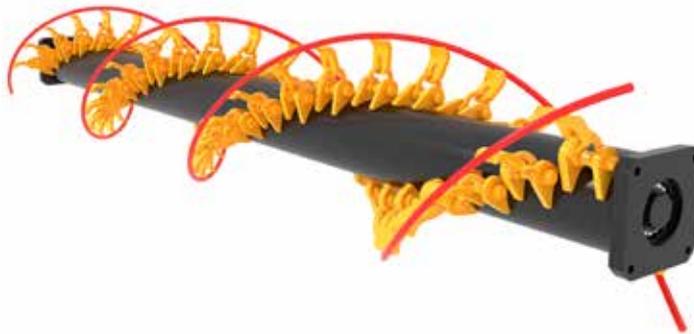
	MU-W	MU-O Vario
<b>Depth guidance</b>		
Support roller	■	■
Front/rear position	Fixed	Adjustable
Diameter (cm)	14	19
Cutting-height setting (cm)	1.9   3.6   5.0	0.1   2.3   4.5   6.5
<b>Housing</b>		
Wear insert	□	□
Hardox wear runners	■	□
Vario cutting bar	-	□
Short chopping bar (shark fin)	■	■
Second short chopping bar (shark fin)	□	□
Chopped-wood rakes	□	□
<b>Optional equipment</b>		
Front shock-absorbing spring assembly	□	□
MU-SOFA® weight transfer system	□	□
Crop deflector plate	-	□
Warning signs with lighting equipment	□	□
Warning signs with LED lighting equipment	□	□
Operating hours counter	□	□

\* Some model series can be converted from 540 rpm to 1000 rpm, which makes higher driving powers permissible - in these cases you will see two horsepower values.

- Not available    ■ Provided as standard    □ Optional



**Carbide M-shackle flail**



**Triple Y-blade**



# OPTIMAL MULCHING WITH MÜTHING



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