



... More than 50 years
of innovative
mulching technology



... developed
and manufactured
in Germany



... for orchards



... for vineyards



... for area
maintenance



... for mechanical
weed control

Rotary mulchers



For more than 50 years humus has stood for innovative mulching technology in orchards and vineyards and municipal green area maintenance.



Plant 3
humus mulcher assembly

Modern manufacturing assures a high standard of quality

All the operations of the enterprise are centralised in at the company's headquarters facilities in Bermatingen on Lake Constance: Administration, development, parts manufacturing and final assembly work together transparently. Today the production area has increased to approximately 9,000 square meters and the company is considering further extension.

Know-how

With team spirit and commitment, qualified and motivated employees ensure the achievement of our ambitious corporate goals. We know: If you want to be a top player, you must be prepared to achieve something extraordinary. We act accordingly: Through ongoing investment we guarantee the high quality standard of our products. Systematic inspections and test accompany all phases, from the development to all stages of manufacturing to shipment to our customers throughout the world.

Precision work for satisfied customers

In our company it is not just all products that are in-house designs or that are developed by ourselves to series production readiness, we also produce all component parts ourself – to the extent possible and to the extent that appears profitable for us. Trained employees operate state-of-the-art manufacturing equipment. In addition to the laser centre (www.laserschneiden.tv) our CNC-controlled welding robots and trimming presses comprise another important prerequisite for smoothly and sustainably fulfilling our own quality requirements and the high quality expectations of our customers. In our own paint shops our product receive the protective paint finish. Likewise, when installing standard parts we also impose high quality requirements and only use products that meet international standards.

We have grown up with the development and production of mulchers.

Today, the machines offered under the brand name, humus are standard equipment in orchards and vineyards, municipal implementation and forestry applications.

Our history

Since 1957 when we developed the first mulcher for orchards, we have successfully pursued this theme. Today the humus product range includes more than 100 models. Now for more 50 years the name, Maschinenfabrik Bermatingen, has been a guarantee of competence and innovation. Our expenditures for research and development are at a very high level. In all segments, we constantly strive to adapt our products to the requirements of our customers and thus to the requirements of the market. In this process the considerations of our designers always go in two directions: On one hand the goal is to implement perfect technical solutions with the development of easy-to-operate machines and equipment, on the other hand the multifaceted requirements that enable environmentally responsible behaviour must be taken into account.





Award winning

Recognised and award-winning accomplishment is an incentive for us to not let up in our efforts to always offer perfect solutions to our customers. Modern technology, optimal ease of operation and tested safety are implicit in our developments – this is confirmed by international test certificates.



*humus mowers of
fine-grained steel*

★ lighter ★ stronger
★ of more stable value!



...developed and
manufactured in Germany



In France we are represented by our subsidiary,
Humus S.A.



SHF

Working width 2.30 m
from 33 kW / 45 hp
Attachment: Front or rear

4



VO

Working width 1.73 – 3.41 m
from 37 kW / 45 hp
Attachment: Front or rear

6



AFLR

Working width 1.40 – 3.20 m
from 15 kW / 20 hp
Attachment: Front or rear

8



STO

Working width 2.25 – 2.61 m
from 33 kW / 45 hp
Attachment: Front or rear

10



LV

Working width 1.10 – 2.35 m
from 29 kW / 40 hp
Attachment: Front or rear

12



HKP

Working width 1.55 – 1.94 m
from 18 kW / 25 hp
Attachment: Front or rear
for mulching and shredding wood

14



HKN

Working width 0.88 – 1.45 m
from 12 kW / 16 hp
Attachment: Rear
for mulching and shredding wood

15



humus-PLANET

Cultivator implements
For row spacing from 1.10 to 3.10 m
Attachment: Front or rear

16



INTERPLANET

Cultivator implements
Working widths 0.30 and 0.40 m
Attachment: Front or rear

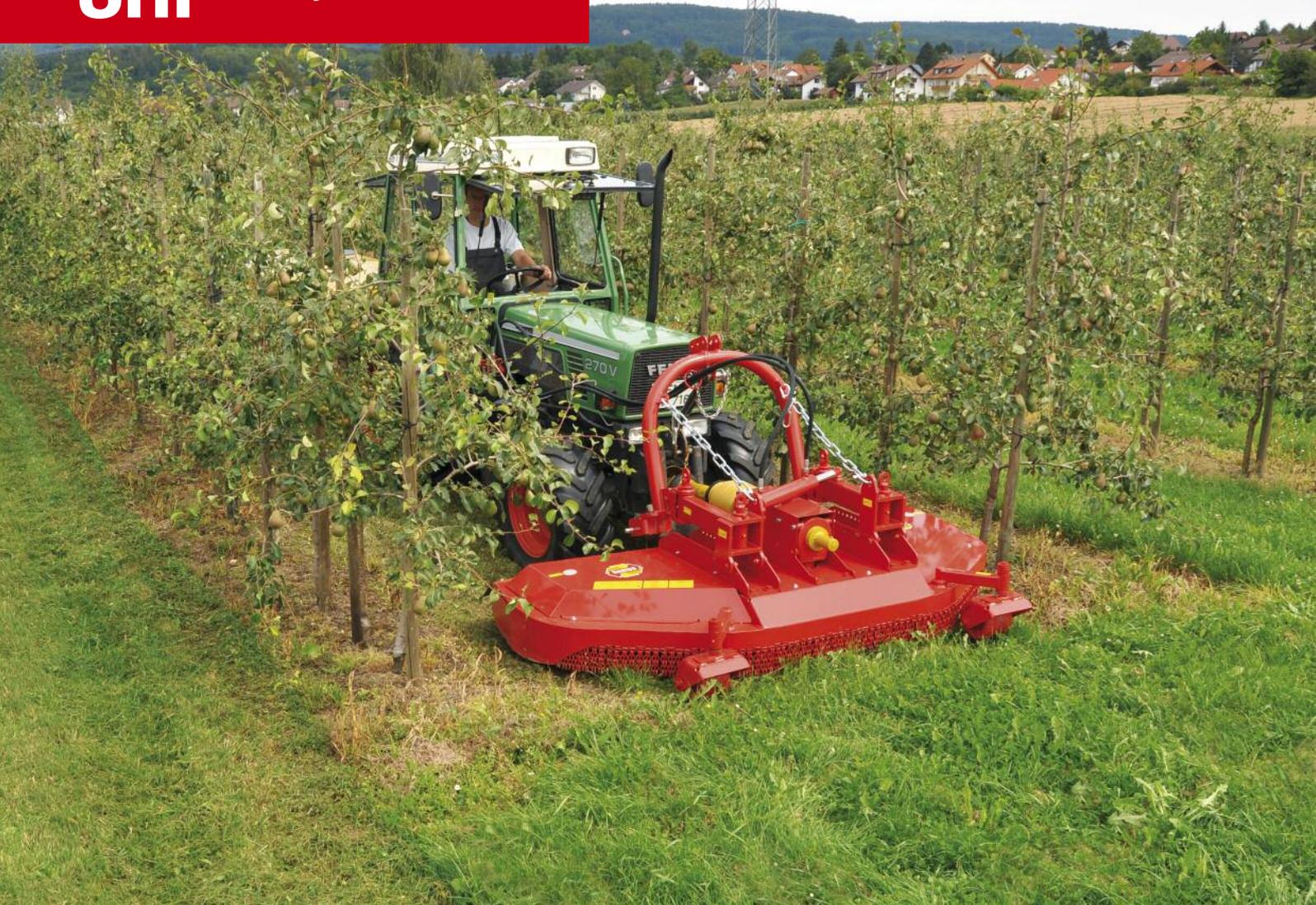
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Explanation of the technology

An overview of our cutter systems

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The SHF rotary mulcher is preferred for orchard implementation. Extremely flat and with a smooth surface it slides through under low-hanging boughs without damaging branches and fruit.

Thanks to the special design, easy retraction or extension on the rows is possible. The system attachment enables an extremely close attachment for every type of tractor. This has an advantageous effect for weight distribution and it enables a smaller turning radius.



SHF
with special equipment



Side grass discharge



With the parallelogram lateral adjustment the SHF implement offers easy lateral adjustment on the tractor. Shown here: The optionally available hydraulic lateral adjustment unit.



The basic implement is equipped with four rotary cutters. Thus a large overlap is achieved, evidenced by an extremely clean cutting pattern. The cutters are mounted on cutter carriers so that the blades can be cost-efficiently replaced.

Proven application areas

- Vineyards and orchards
- Managed grassland with fruit tress
- Berry cultures
- Pasture maintenance and area maintenance
- Municipal implementation

Equipment features

- Attachment: Front or rear
- Cat. I and II attachment
- Low and stable design, as well as smooth surfaces
- Parallelogram lateral adjustment
- Cutting height adjustment element
- Rear or side grass discharge
- Rear, tandem track roller for optimal operating characteristics
- Front removable, ball-bearing track rollers, adjustable in the track
- Reinforced V-belt drive
- High-quality angular gearbox
- Gearbox through-drive for mulch / spray combination
- All lubricating points are on the top of the implement
- Accident protection fixture
- Automatic V-belt tensioner

Accessories / special equipment

- Universal joint shaft / universal joint shaft with freewheel
- Mulch / spray combination hitch
- Hydraulic lateral adjustment

Technical data

Rotary mulcher	SHF	230
Working width	m	2.30
Total width	m	2.36
Depth / height	m	1.30/0.23 – 0.32
<small>Depth adjustable (delivery setting)</small>		
Max. lateral reach	m	1.35
from the middle of the tractor	m	1.35
Adjustment distance / parallelogram	m	0.40
Power requirement*	from kW/hp	33/45
PTO shaft speed	RPM	540, 750 or 1.000
Weight**	approx. kg	590

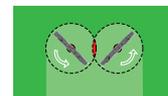
* The power requirement also depends on the grass density and grass height
 ** Weight can deviate depending on equipment



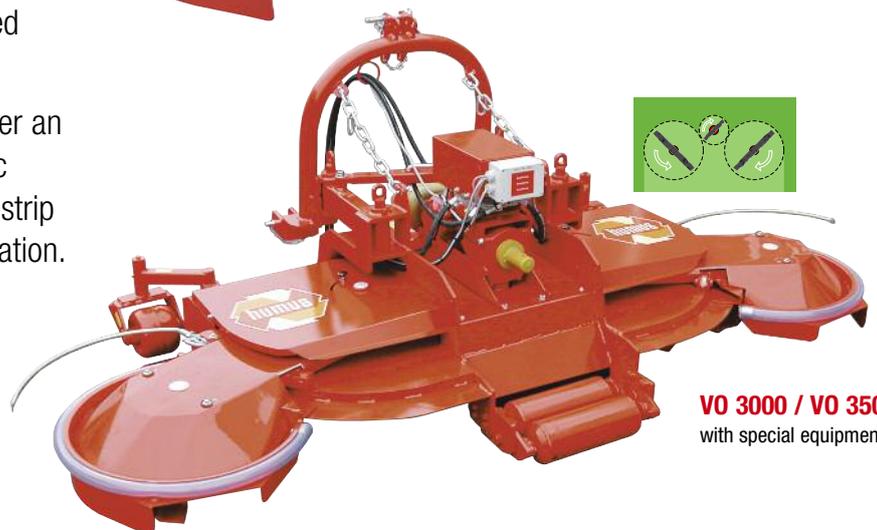
VO rotary mulchers have a stable frame construction, designed particularly for use on powerful tractors and for the mulch-spray combination.

Within the variable working width adjustment of all VO rotary mulchers any desired position can be freely selected. The working width is variably adjusted from the tractor, hydraulically. Both swing discs can be adjusted synchronously or separately.

Thus the VO rotary mulchers offer an absolutely reliable and economic possibility for mulching the tree strip and implementing organic cultivation. They are built particularly low and have a smooth surface, in order to slide under the fruit-laden boughs.



VO 2500 / VO 2700
with special equipment



VO 3000 / VO 3500
with special equipment



For use in mulch/spray combination, the VO rotary mulcher is factory-equipped with a gearbox through drive. With the floating hitch (rocker arm) the tongue weight of the sprayer is transferred to the tractor.



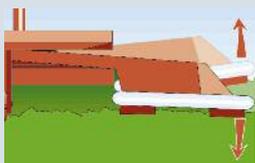
With the hydraulic lateral adjustment the VO implements offers easy lateral adjustment on the tractor:
VO 2500 / VO 2700 linear adjustment
(see illustration to the left)
VO 3000 / VO 3500 parallelogram adjustment



VO rotary mulchers move on track wheels with a wide contact area. They can be adjusted in track and height.



The factory standard tandem track roller ensures quiet operation, even at rapid travel.



Under each of the rotary cutters of the swing disc there is a cutter support plate that adapts the swing arm to the terrain.



The basic implements VO 2500 / VO 2700 is equipped with two rotary cutters; VO 3000 / VO 3500 are equipped with three rotary cutters. Thus a large overlap is achieved, evidenced by an extremely clean cutting pattern. The cutters are mounted on cutter carriers so that the blades can be cost-efficiently replaced.

Proven application areas

- Orchards
- Managed grassland with fruit tress
- Berry cultures
- Municipal implementation
- Photovoltaic systems
- Vineyards

Equipment features

- Attachment: Rear or front
- Cat. I and II attachment
- Large overlap through a third rotary cutter for VO 3000 / 3500
- Stable design
- Optimal adaptation to the terrain
- Clean grass cut with uniform mulch deposit or side grass discharge via swing arms are possible
- Double gearbox with through-drive – e.g. for spray operation
- Rear, tandem track roller for optimal operating characteristics
- Front removable, ball-bearing track rollers, adjustable in the track
- Reinforced V-belt drive
- Manual variable adjustment working width
- Accident protection fixture
- Low-maintenance
- Cutting height adjustment element

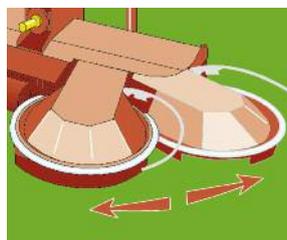
Accessories / special equipment

- Universal joint shaft / universal joint shaft with freewheel
- Front attachment
- Mulch / spray combination hitch
- Hydraulic parallelogram lateral adjustment
- Control block with double-acting control devices
- Electro-hydraulic precision control of the swing discs
- Collision safeguard for both swing discs
- Hydraulic working width adjustment
- Electrical positioning

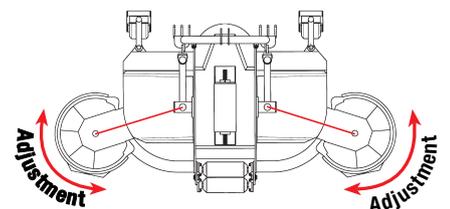
Technical data

Rotary mulcher		VO 2500	2700	3000	3500
Working width	m	1.73 – 2.44	1.94 – 2.72	2.05 – 3.07	2.26 – 3.41
Total width	m	1.83 – 2.54	2.03 – 2.81	2.13 – 3.16	2.35 – 3.50
Adjustment distance / parallelogram	m	–	–	Rear 0.40 / front 0.58	
Adjustment distance / linear	m	0,40	0,40	–	–
Power requirement*	from kW / hp	37/45	37/45	37/45	44/60
PTO shaft speed	RPM	540, 750 or 1.000			
Weight**	approx. kg	570	600	700	760

* The power requirement also depends on the grass density and grass height
** Weight can deviate depending on equipment



With the aid of the electro-hydraulic precision control system and with two sensors in front of the swing arms, the obstructions are tactilely probed with high sensitivity, and the swing disc is guided closely around the tree. Thus precise and protective scanning and mulching are possible close to the obstacle, such as tree trunks, vines, shrubbery, meadow fences, and even in solar parks under the solar panels. Through the precision control system the swing arms independently adapt to the width of the row.



In the factory standard hydraulic working width adjustment unit, the mulcher can be adjusted to a working width that is variable according to type. Optionally a collision safeguard for both swing discs is offered, it is triggered via a pressure relief valve. Thus if there is a steering error, damage to the hail net post or to the plant is avoided. The collision safeguard must not be confused with the precision control system.

AFLR rotary mulcher



The AFLR rotary mulchers offer an absolutely reliable and economic possibility for mulching the tree strip and implementing organic cultivation. The AFLR rotary mulchers have also proven themselves in the maintenance of photovoltaic systems and for mulching under fences. They are built particularly low and have a smooth surface, in order to slide under the fruit-laden boughs. The extensive lateral reach from the middle of the tractor of up to 2.8 meters for the AFLR 3200, makes working in standard tree orchards with treetops that are far apart or mulching under solar panels a breeze. With the electro-hydraulic precision control system this is even executed automatically. The compact design ensures favourable weight distribution on the tractor. The elastic V-belt drive is robust and insensitive.



AFLR 2300 / AFLR 2500
with special equipment



AFLR 3200
with special equipment





The AFLR mowing technology guarantees an optimal cutting pattern. The mulch is deposited over the complete working width of the machine.



The basic implement AFLR 2300 / AFLR 2500 is equipped with two rotary cutters; AFLR 3200 is equipped with three rotary cutters. Thus a large overlap is achieved, evidenced by an extremely clean cutting pattern. The cutters are mounted on cutter carriers so that the blades can be cost-efficiently replaced.

Proven application areas

- Vineyards and orchards
- Berry cultures
- Photovoltaic systems
- Paddocks
- Managed grassland with fruit tress
- Pasture maintenance and area maintenance
- Mulching under fences

Equipment features

- Attachment: Rear or front
- Cat. I and II attachment
- Low and stable design
- Large, variable and hydraulic linear lateral adjustment unit
- Cutting height adjustment element
- Rear ball-bearing track roller for optimal operating characteristics (AFLR 3200: 2 x track roller)
- Front removable, ball-bearing track rollers
- Reinforced V-belt drive
- High-quality angular gearbox
- Cushioned, removable swing disc, adjustable contact pressure of the swing disc via spring balancer
- Accident protection fixture
- Low-maintenance
- Hydraulic lateral adjustment
- Automatic V-belt tensioner in the basic implement

Accessories / special equipment

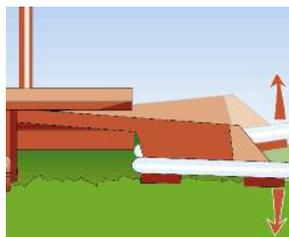
- Universal joint shaft / universal joint shaft with freewheel
- Front attachment
- Electro-hydraulic precision control of the swing disc
- Hydraulic swing disc retraction
- Oil flow regulator / flow divider

Technical data

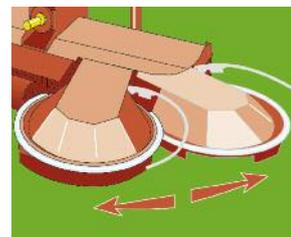
Rotary mulcher	AFLR	1800	2300	2500	3200
Working width	m	1.40 – 1.76	1.83 – 2.39	1.93 – 2.56	2.74 – 3.20
Max. lateral reach from the middle of the tractor	m	1.60	2.28	2.44	2,80
Adjustment distance / linear	m	0.40	0.63	0.63	–
Adjustment distance / parallelogram	m	–	–	–	0.91
Power requirement*	from kW / hp	15/20	26/35	20/40	55/75
PTO shaft speed	RPM	540 or 1.000 – AFLR 3200 also 750			
Weight**	approx. kg	330	490	540	900

* The power requirement also depends on the grass density and grass height

** Weight can deviate depending on equipment



Under each of the rotary cutters of the swing disc there is a cutter support plate that adapts the swing arm to the terrain.



With the aid of the electro-hydraulic precision control system and with a sensor in front of the swing arms the trunk is tactilely probed with high sensitivity, and the swing disc is guided closely around the tree. Thus precise and protective scanning and mulching are possible close to the obstacle, such as tree trunk, vine, shrubbery, meadow fence, and even in solar parks under the solar panels.



The STO rotary mulchers are preferred in orchard implementation. Extremely flat and with a smooth surface it slides through under low-hanging boughs without damaging branches and fruit. However, the outstanding characteristics of the STO also ensure optimal mulching results for green area maintenance and on managed grassland with fruit trees.

As desired, the mulched material is distributed in the tramline behind the implement, or uniformly distributed laterally in the tree strip. The desired distribution can be adjusted on the discharge flaps.



STO 230



STO 260



For use in mulch/spray combination, the VO rotary mulcher is factory-equipped with a gearbox through drive. With the floating hitch (rocker arm) the tongue weight of the sprayer is transferred to the tractor.



The STO 260 rotary mulcher – working width 2.61 m – is equipped with four rotary cutters and has a large overlap. In addition a lateral skid for optimal ground adaptation and removable front track rollers.



With the manual parallelogram lateral adjustment the STO 230 offers easy lateral adjustment on the tractor. The STO 260 has a linear lateral adjustment element. On request the hydraulic lateral adjustment units can also be delivered.



STO rotary mulchers move on track wheels with a wide contact area. They can be adjusted in track (not STO 260) and height.



The factory standard tandem ball-bearing track roller ensures quiet operation, even at rapid travel.

Proven application areas

- Vineyards and orchards
- Managed grassland with fruit tress
- Berry cultures
- Pasture maintenance and area maintenance
- Municipal implementation

Equipment features

- Attachment: Front or rear
- Cat. I and II attachment
- Low and stable design, as well as smooth surfaces
- STO 230: Parallelogram lateral adjustment
STO 260: Linear lateral adjustment unit
- Cutting height adjustment element
- Side grass discharge
- Rear ball-bearing track roller for optimal operating characteristics
- Front removable, ball-bearing track rollers, adjustable in the track (not STO 260)
- Reinforced V-belt drive
- High-quality angular gearbox
- Gearbox through-drive for mulch/spray combination
- All lubricating points are on the top of the implement
- Accident protection fixture

Accessories / special equipment

- Universal joint shaft / universal joint shaft with freewheel
- Mulch / spray combination hitch
- Hydraulic lateral adjustment
- Dual-side three-point bracket for front and rear attachment STO 230

Technical data

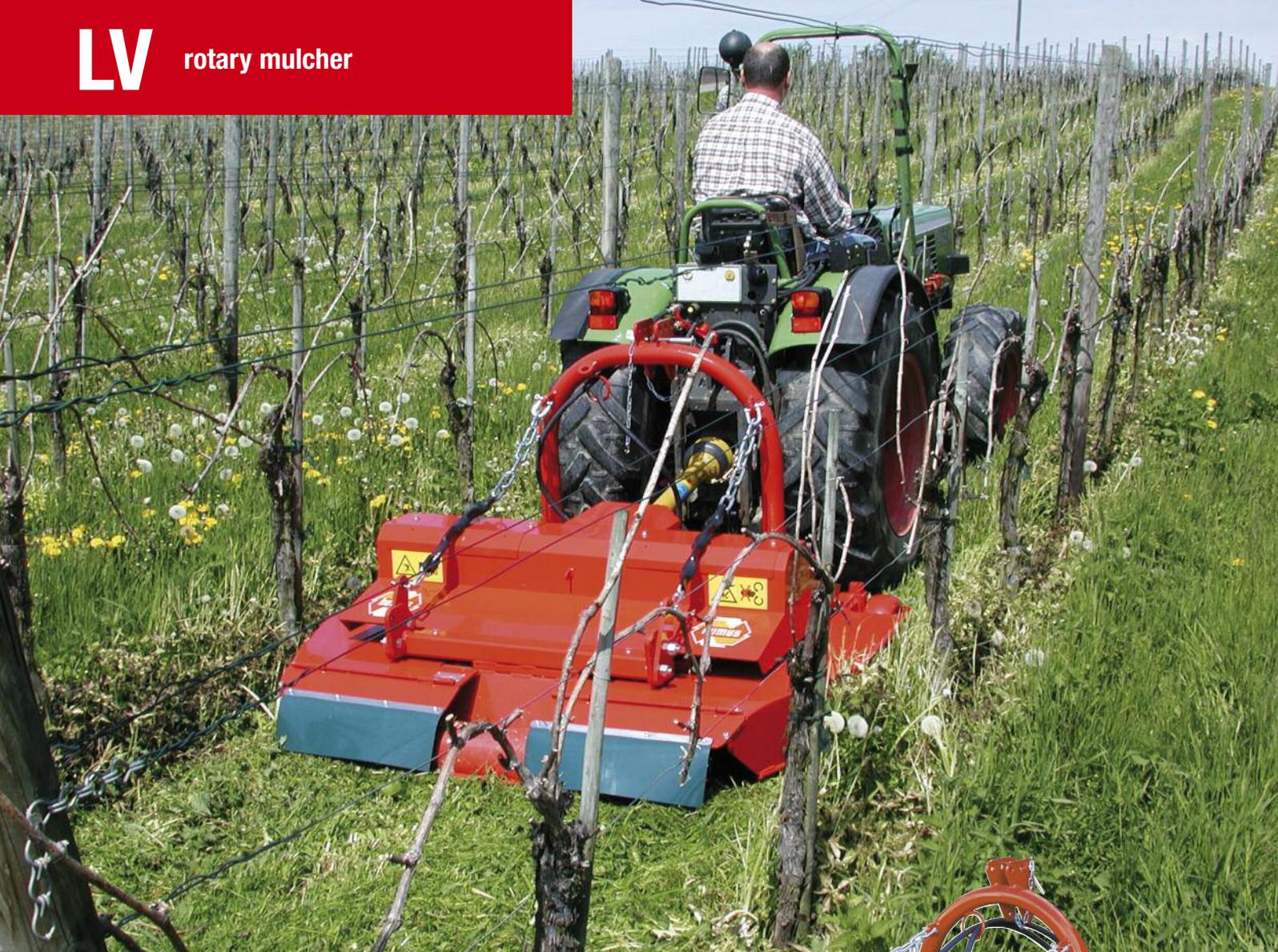
Rotary mulcher	STO	230	260
Working width	m	2.25	2.61
Total width	m	2.30	2.70
Depth / height	m	1.63/0.19	1.50/0.27
Max. lateral reach from the middle of the tractor	m	1.35	1.51
Adjustment distance / parallelogram	m	0.40	–
Adjustment distance / linear	m	–	0.40 hydraulic 0.43 manual
Power requirement*	from kW / hp	33/45	41/55
PTO shaft speed	RPM	540 or 1.000 – STO 230 also 750	
Weight**	approx. kg	580	580

* The power requirement also depends on the grass density and grass height

** Weight can deviate depending on equipment



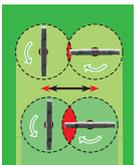
The basic implement STO 230 is equipped with three rotary cutters, the basic implement STO 260 is equipped with four rotary cutters. Thus a large overlap is achieved, evidenced by an extremely clean cutting pattern. The cutters are mounted on cutter carriers so that the blades can be cost-efficiently replaced.



Series LV rotary mulchers have an extremely compact and low design. They are attached close to the tractor. In conjunction with the lower depth, this is advantageous for weight distribution and a small turning radius.



The constant optimisation of the models has made this mulcher a powerful and versatile partner in vineyards. The working width can be variably and hydraulically adjusted via two cylinders! The three cast steel gearboxes and the wear-resistant sheet steel housing guarantee the familiar humus quality. A clean cutting pattern is achieved due to the two rotary cutters that run in opposite directions with movable, replaceable cutter blades.



With additional attachments multiple functions can be executed in one work step: Inter-row spraying, as well as cultivation in the undervine area with the INTERPLANET tiller head, or mulching in the undervine area with the INTERPLANET mulching head.





The LV rotary mulcher can be variably extended and retracted linearly and adapted to the respective row width. Row width can be adjusted when driving.



Deflecting fenders on the wheel to prevent the vines from being hooked in and damaged.



Additional attachment INTERPLANET tiller head



Additional attachment INTERPLANET mulching head



Additional attachment – inter-row sprayers

Proven application areas

- Vineyards and orchards
- Managed grassland with fruit tress
- Berry cultures
- Christmas tree cultures

Equipment features

- Attachment: Rear or front
- Cat. I and II attachment
- Low and stable design
- Three-point attachment
- Good cutting quality – large overlap of the cutters
- Linear working width adjustment via a double-acting control device
- Cutting height adjustment element
- Rear ball-bearing track roller for optimal operating characteristics
- Front track wheels
- High-quality angular gearbox
- Accident protection fixture
- Low-maintenance

Accessories / special equipment

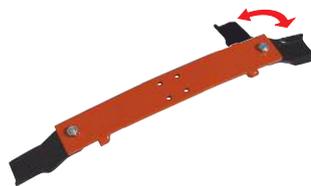
- Universal joint shaft with slip clutch and freewheel
- Front attachment
- Gearbox through-drive for a combination of mulching and spraying tasks
- Mulch / spray combination hitch
- INTERPLANET tiller head for cultivation or INTERPLANET mulching head
- Point spraying or row spraying implements

Technical data

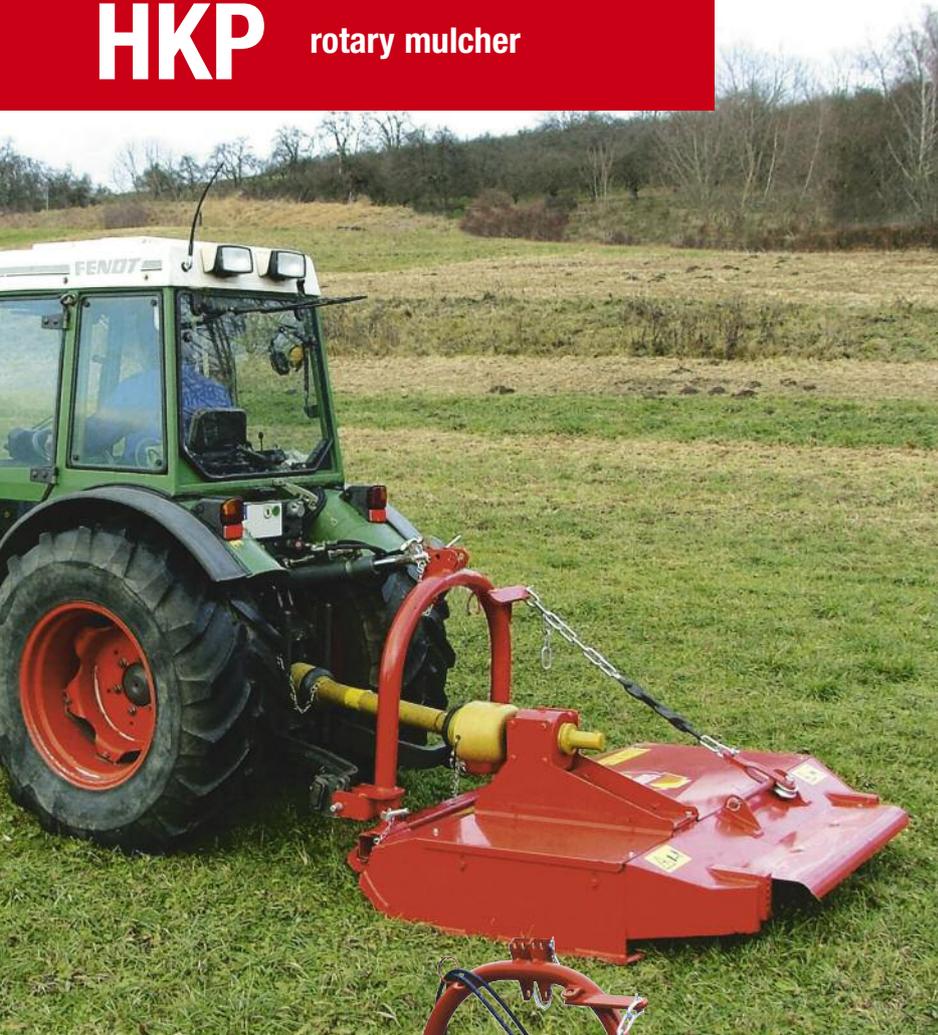
Rotary mulcher	LV	110	115	125	135	145	160	180
Working width	m	1.10 – 1.38	1.15 – 1.48	1.27 – 1.69	1.35 – 1.77	1.45 – 1.96	1.60 – 2.16	1.79 – 2.35
Total width	m	1.16 – 1.44	1.21 – 1.54	1.33 – 1.75	1.41 – 1.83	1.51 – 2.02	1.66 – 2.22	1.85 – 2.41
Depth / height	m	1.28/ 0.24	1.28/ 0.24	1.28/ 0.24	1.28/ 0.24	1.42/ 0.24	1.52/ 0.24	1.61/ 0.24
Power requirement* from kW / hp		29/40	29/40	29/40	29/40	29/40	33/45	33/45
Shaft speed	RPM	540 or 1.000						
Weight**	approx. kg	460	480	500	510	580	640	650

* The power requirement also depends on the grass density and grass height

** Weight can deviate depending on equipment



Per rotary cutter, two freely-oscillating cutter blades that can be quickly and cost-efficiently replaced are mounted on the cutter carrier. Thanks to the linear working width adjustment a large overlap can be achieved. This results in a precise and clean cutting pattern.



HKP
with special equipment

The HKP rotary mower is a cost-efficient variant for orchards. It is used when the tree strip is sprayed with chemicals or is kept open with a cultivator. In addition, it has optimally proven itself in general green area maintenance. The linear lateral adjustment enables lateral reach of the HKP on the tractor.



Proven application areas

- Vineyards and orchards
- Managed grassland with fruit tress
- Berry cultures
- Landscaping
- Tree nurseries
- Shredding timber
- Pasture maintenance and area maintenance
- Municipal implementation
- Landscape maintenance

Equipment features

- Attachment: Rear
- Low and stable design, as well as smooth surfaces
- Good cutting quality – cutters supported with large overlap supported by spherical roller bearings
- Mechanical linear lateral adjustment
- Cutting height adjustment element
- Skids
- Lateral gearbox and high-quality, reinforced belt drive
- Double floor
- Accident protection fixture

Accessories / special equipment

- Universal joint shaft / universal joint shaft with freewheel
- Front attachment
- Timber cutter
- Hydraulic cylinder for lateral adjustment
- Ball-bearing track roller in conjunction with two skids
- Track wheels
- Side grass discharge
- Gearbox shifted to the centre (only HKP 2000)
- Ball-bearing track roller and track wheels incl. 1 x side grass discharge

Technical data

Rotary mulcher	HKP	1600	2000
Working width	m	1.55	1.94
Depth¹ / depth²	m	1.42/0.29	1.42/0.29
Max. lateral reach from the middle of the tractor	m	1.39	1.82
Adjustment distance, linear	m	0.40	0.63/rear 0.40/front
Power requirement* from kW / hp		18/25	22/30
PTO shaft speed	RPM	540, 750 or 1.000	
Weight**	approx. kg	360	410

¹ Standard version without track roller

² Standard version with skids in the outer area

* The power requirement also depends on the grass density and grass height

** Weight can deviate depending on equipment



Per rotary cutter, two movable, freely-oscillating cutters are mounted that deliver a clean and precise cutting pattern. In addition two timber cutters ① can be mounted on the round cutter plate to shred light wood to 3 cm Ø.



The HKN offers universal implementation, it is easy to move and has a clean cutting pattern. Cutting height can be varied in stages via the skids and the track roller. The HKN works trouble-free, even at relatively high drive speeds.

Special timber cutters are available for shredding wood.

Proven application areas

- Vineyards and orchards
- Managed grassland with fruit tress
- Berry cultures
- Landscaping
- Tree nurseries
- Shredding timber

Equipment features

- Attachment: Rear
- Low and stable design
- One rotary cutter with two moveable mulching cutters
- Adjustment rail for lateral adjustment (from HKN 1000)
- Height-adjustable skids and ball-bearing track roller for cutting-height adjustment
- Three-point attachment
- Accident protection fixture
- Low-maintenance

Accessories / special equipment

- Universal joint shaft / universal joint shaft with freewheel
- Timber cutter



Per rotary cutter, two movable, freely-oscillating cutters are mounted that deliver a clean and precise cutting pattern. In addition two timber cutters ① can be mounted on the round cutter plate to shred light wood to 3 cm Ø.

Technical data

Rotary mulcher	HKN	850	950	1000	1200	1500
Working width	m	0.88	0.98	1.08	1.15	1.45
Total width	m	0.94	1.04	1.14	1.22	1.52
Depth / height	m	1.32/0.22	1.25/0.22	1.32/0.22	1.40/0.22	1.70/0.22
for row spacing	from m	1.30	1.40	1.50	1.70	2.00
Adjustment distance / linear	m	–	–	0.40	0.40	0.40
Power requirement*	from kW / hp	12/16	12/16	14/19	14/19	18/25
PTO shaft speed	RPM	540, 750 or 1.000				
Weight**	approx. kg	165	170	215	220	280

* The power requirement also depends on the grass density and grass height

** Weight can deviate depending on equipment



The humus-PLANET has been developed for mechanical weed control. The tree strip or vine row is processed at a uniform depth. The implement is available for single-sided use or dual-sided use.



A brush rotates above the implements, the brush also supplies the last weed, directly adjacent to the trunk, to the implement. Equipped with the electro-hydraulic precision control system the humus-PLANET works with the utmost precision right up to the trunk.



The humus PLANET can be hydraulically adapted to every terrain contour.



Alternatively the tiller head can be replaced with a mulching head.



Proven application areas

- Vineyards and orchards
- Managed grassland with fruit tress
- Berry cultures

Mode of operation

- The weed is pulled out with the root and then chopped (mulching cultivation).
- The soil gets a crumbly texture and it stays where it should (no displacement of soil).
- The implement does not clog and works equally well in wet or dry, light or heavy, sandy or rocky soils.
- The weed brush even removes the last island of weeds directly on the trunk.

Equipment features

- Device frame and tool boom and tiller head (available in working widths of 30 cm or 40 cm), alternatively with mulching head
- Hydraulic drive
- Electro-hydraulic precision control
- Servo motor for diagonal positioning of the tiller head (only for PE 1400)
- Universal attachment plate

Accessories / special equipment

- Universal joint shaft
- Hydraulic implement frame
- Mulching heads
- Supplemental pump for supplying oil to the precision control system, incl. oil flow regulator
- Oil flow regulator with hose connections
- Oil cooler (possibly required at high outdoor temperatures or high work speeds)

Technical data

... in vineyards

humus-PLANET	PE	1000	1400
Mode of operation		One side	One side
Row spacing at least m		1.10	1.50
Lateral reach m		0.45 – 1.00	0.60 – 1.40
PTO shaft speed RPM		Hydraulically from the tractor	
Weight approx. kg		Depending on the equipment	

... in orchards

humus-PLANET	PE	1100	1600	2000	3200	4000
Mode of operation		One side	One side	One side	Both sides	Both sides
Row spacing at least m		1.50	2.00	2.40	2.40	3.10
Lateral reach m		0.70 – 1.15	0.93 – 1.64	1.17 – 2.03	1.85 – 3.27	2.33 – 4.06
PTO shaft speed RPM		540 / 1.000 or tractor hydraulic system				
Weight approx. kg		Depending on the equipment				



To make the powerful humus-PLANET for ecological vine row cultivation accessible to a broader group of users, with the INTERPLANET, an additional attachment variant has been developed.

Thus it is also possible to attach the proven technology as a supplemental unit on mulchers and other cultivation implements of virtually any brand.

Proven application areas

- Vineyards and orchards
- Managed grassland with fruit trees
- Berry cultures

Mode of operation

- Cultivator tiller head or mulching head for mechanical cultivation and for mulching in the undervine area for special cultures and in vineyards and orchards.
- Suitable for attachment on mulchers, vine weeders, cultivators, simple base frames, etc.
- Versatile implementation possibilities: Adjustable work angle for perfect adaptation to ground conditions.

The INTERPLANET can be attached on

- Rotary mulchers
- Cultivators
- Vine weeders
- Inter-axle attachment
- Implement frame

Accessories / special equipment

- The INTERPLANET is available in 30 and 40 cm working widths.
- Optionally also with mechanical control system as supplemental equipment.



INTERPLANET tiller head on the rotary mulcher LV



INTERPLANET tiller head on the cultivator



INTERPLANET mulching head on the rotary mulcher LV



Mechanical control unit for the tiller head



Mechanical control unit for the mulching head

The cutter systems – top technology for outstanding results...

Models VO, AFLR, STO and SHF



Depending on the model, the basic implements are equipped with two, three, or four rotary cutters. Thus a large overlap is achieved, which results in a clean cutting pattern. The cutters are mounted on cutter carriers so that the blades can be cost-efficiently replaced.

Model LV



Per rotary cutter, two freely-oscillating cutter blades are mounted on the cutter carrier; they can be quickly and cost-efficiently replaced. Thanks to the linear working width adjustment a large overlap can be achieved; this results in a precise and clean cutting pattern.

Model HKP and HKN



Per rotary cutter, two movable, freely-oscillating cutters are mounted that deliver a clean and precise cutting pattern. In addition two timber cutters can be mounted on the round cutter plate to easily shred light wood to 3 cm Ø.

Our product range



Flail mulchers

Growth is cleanly mulched in the set height. The mulched material is routed along the housing via the track roller and is uniformly distributed behind the implement.

Request the special brochure, **Flail Mulchers**.



Side mulchers

For mulching on paths and embankments – equipped with “Y”-type blades, system flails, or safety cutter shaft.

Request the special brochure, **side mulchers**.

Our product range



Mouse killer

A mobile implement for immediate use on meadows, gardens, orchards/vineyards and for landscaping.

More information at
www.mäusevernichter.de



Attachment forklift and pallet lifter

All models are equipped with double-acting hydraulic cylinder for pressing and fast lowering, hydraulic top link, as well as flip-up and multiple adjustment load forks.

Implement technology and machines for soil cultivation

humus has a high level of commitment in the area of implement technology and offers an extensive product range for harvesting fruit, for cutting tasks and machines for soil cultivation.



Electrical loppers and vine shears, Felco 800 and Felco 820



Cultivator



Roller disc harrow

Subject to technical changes and colour deviations / version 05/2013

- Innovative technology
- Outstanding work results
- Easy operation
- Long-term reliability
- High quality
- Stable construction
- Service-friendly design



A full-coverage dealer and service network is the guarantor for proximity to customers and customer support, also extending years beyond the purchase.

Maschinenfabrik Bermatingen GmbH & Co. KG

**Kesselbachstraße 2
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**Telephone +49 (0) 75 44 95 06-0, Fax -20
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Your humus dealer



www.humus-mulchgeraete.de