



... More than 50 years  
of innovative  
mulching technology



... developed  
and manufactured  
in Germany



Side mulchers  
for narrow-gauge tractors,  
municipal tractors and  
small tractors



Side mulchers



Hydraulic  
mulching heads



Boom arms

Side mulchers for narrow-  
gauge tractors, municipal  
tractors and small tractors



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



### **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](http://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**

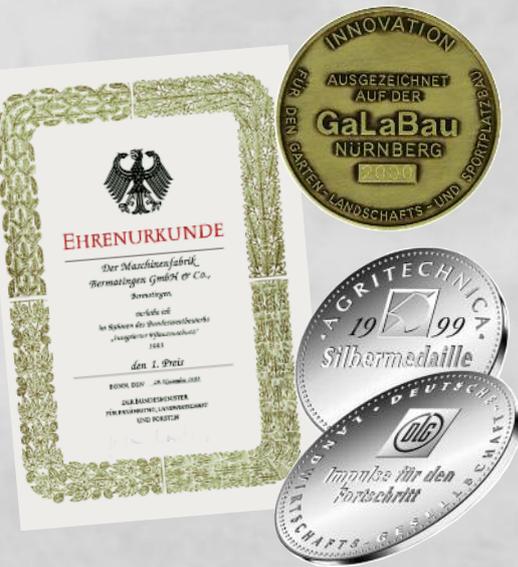
Since 1957 when we developed the first mulcher for orchards, we have successfully pursued this theme. Today the humus product range includes more than 100 models. Now for more 50 years the name, Maschinenfabrik Bermatingen, has been a guarantee of competence and innovation. Our expenditures for research 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.



## Explanation of the technology

An overview of our cutter systems

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## SP / SSP

Working width 1.05 – 1.55 m  
to 90 hp, for narrow-gauge tractors,  
municipal tractors and small tractors  
Minimum tractor weight 1200 kg

6



## SP / SSP

Working width 1.55 – 2.20 m  
from 90 hp  
Minimum tractor weight 2500 kg

8



## SPS

Working width 1.55 – 2.00 m  
to 100 hp  
Minimum tractor weight 1800 kg

18



## SSK / SSG

for small tractors and  
compact tractors  
from 25 hp

10



## BMS

Boom arms  
from 25 hp

12



## KMA / SMA

Hydraulic mulching heads  
for wheel loaders, large boom mowers  
or excavators  
from 23 hp

14



## SMK/H / SMH

Hydraulic mulching heads for  
compact tractors, special tractors, wheel loaders,  
mini-excavators, municipal vehicles and boom arms  
from 11 hp

16

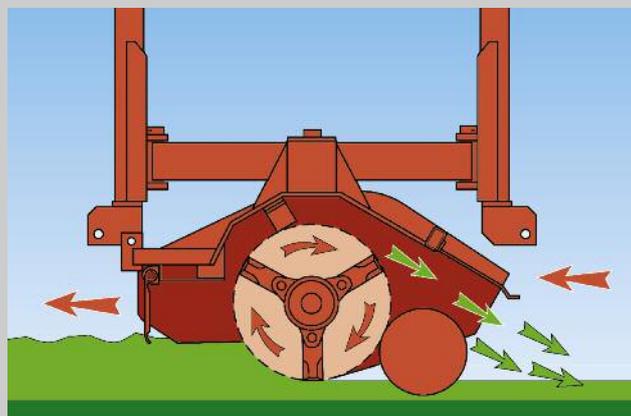
## Our product range



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# Top technology for outstanding results

The mode of operation of all humus flail mulchers: On the electronically-dynamically balanced rotor shaft with a generously configured spherical roller bearing the cutters are arranged so that they can oscillate freely and overlap. The cutters mulch the growth at the individually adjustable height and convey the mulched material through the tearing bars – here fine defibration and reduction occur. The mulched material is routed along the housing via the track roller and is uniformly distributed behind the flail mower.



The humus flail mulchers are either equipped with “Y“-type blades or with flails depending on the application:

## “Y“-type blades



The blades that are suspended in pairs are free-moving, durable and require only minimal force. Moreover they ensure good distribution of the mulch mass. They can be used on both sides and are very popular because they generate minimal dust when they are working.

### Recommended implementation areas

- Green area maintenance
- Branches to 5 cm Ø
- Shrubbery
- On rocky ground
- In row cultures
- Mulching in green manure

## Double “Y“-type blades



They are supported by two pendulum bearings. This guarantees a good cut and a perfect mulching result even on a difficult substrate. Another positive effect: The cutter can even be positioned closer to the shaft and thus can better give way to foreign objects.

### Recommended implementation areas

- Road construction authorities
- Water and soil associations
- Parks and athletic facilities
- Municipal job requirements

## System flail



Due to its special shape and high deadweight, the system flail develops an advantageous suction effect and a particularly attractive cutting pattern. Either a fine-cutting blade or a claw blade is screwed into the deep bed of the cutter carrier. The blades can be cost-effectively replaced.

### Recommended implementation areas

- ...for fine-cutting blades
- Pasture care
  - Shredding timber to approx. 10 cm Ø
  - Green area maintenance
  - Field work
  - Forestry applications
- ...for claw blades
- Shredding timber to approx. 10 cm Ø

## Fine-cutting blade B60



Like its big brother, the system flail, due to its special shape and high deadweight, the B60 flail develops an advantageous suction effect and a particularly attractive cutting pattern. A fine-cutting blade is screwed into the deep bed of the cutter carrier. The blades can be cost-effectively replaced.

### Recommended implementation areas

- Mulching of grass
- Parks and athletic facilities
- Roadsides and waysides
- Dams and dikes
- Municipal use

## Small flails



The humus flail mulchers SMK, SMK/H, SP 125 to 155, SMK/E and SSK are equipped with small flails. They ensure a clean and good cut when mulching and really prove themselves when shredding shrubbery to a thickness of 3 cm.

### Recommended implementation areas

- Mulching of grass
- Parks and athletic facilities
- Roadsides and waysides
- Dams and dikes
- Municipal use

## Universal flail



This is an all-round flail. It is equally suited for mulching and for shredding wood to a thickness of approx. 5 cm.



## Safety Mulcher

humus safety mulchers:  
The revolutionary mulching technology  
with convincing advantages...

### ...Safety

Thanks to the special design and arrangement of the cutters on the rotor, ejection of rocks and other foreign objects during the work and when lifting out the mulcher is virtually suppressed.

### ...Performance

Safety mulchers permit a higher cutting speed of the cutters; this has a positive effect on increased working speed and thus a greater area output is achieved.

### ...Quality

Due to the high number of cutting edges through use of the three cutter system, the safety mulchers ensures a clean grass cut and perfect reduction of the mulched material.

### ...Service

A worm shaft is at the centre of the Safety Mulcher technology, which is equipped with multi-toothed cutting blades made of highly wear-resistant special steel. The divided cutter segments can be quickly and easily replaced without special tools. In terms of service this saves time and money.



The patented Safety Mulcher  
technology has received  
multiple awards!



# SP

flail mulcher

# SSP

side

*Safety Mulcher*

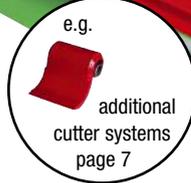
for narrow-gauge tractors,  
municipal tractors and small tractors



The SP/SSP side mulchers offer double implementation possibilities: They can be used as rear mulchers directly behind the tractor. With the long parallelogram it is swung to the side next to the tractor to mulch on waysides and roadsides, and for mulching embankments and ditches. The variable inclination range of 90° upward and 60° downward, as well as the variably adjustable swing ranges enable the greatest possible area of implementation!



**SP**  
flail mulcher



**SSP**  
side *Safety Mulcher*





Infinitely variable inclination range of the mower head of 90° upward and 60° downward.



Front attachment with a PTO speed of 540 rpm or hydraulic drive possible.



Integrated holder for convenient storage of the universal joint shaft.



The stable collision guard ensures the greatest possible protection against collisions with obstructions.



Cat. II for dismantling ensures greater free space of the universal joint shaft.



## Proven application areas

- Mulching of grass and light wood
- Ditches and embankments
- Roadside plantings, edges of fields, roadsides
- Area management and landscape management
- Municipal implementation

## Equipment features

- Attachment: Rear – use as rear mulcher or side mulcher
- Attention: Front attachment with a PTO speed of 540 rpm or hydraulic drive possible
- Inclination range: 90° upward / 60° downward
- Cat. I and II attachment
- Cat. II attachment for dismantling to achieve a greater lateral thrust
- High-quality angular gearbox: Robust, elastic drive via reinforced V-belt on the rotor shaft
- Track roller for good ground tracking and precise cutting height guidance
- Mechanical collision guard
- Adjustable attachment height can be adapted to the tractor type
- Spherical roller bearing in the rotor shaft
- Two parking feet
- Skids
- Adjustable oil flow rate throttles, to regulate the swing and tilt cylinders in their movement speeds

## Accessories / special equipment

- Universal joint shaft with freewheel
- Hydraulic drive (shaft brake valve, anti-cavitation valve)
- Wide angle universal joint shaft with 2 wide angles and cross profile, 40 kg

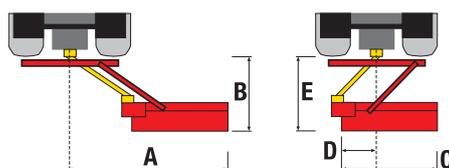
## Technical data

Flail mulcher	SP	125	145	155
Small flails	pcs	24	28	30

Side <i>Safety Mulcher</i>	SSP	125	145	155
Safety Mulcher cutter	pcs	18	21	24

Working width	m	1.25	1.45	1.55
Total width	m	1.70	1.90	2.03
Track width	min. m	1.20	1.40	1.50
Power requirement* from kW / hp		30 / 40	35 / 48	40 / 55
PTO shaft speed	RPM	540		
Weight**	approx. kg	515	535	555
Tractor track width	m	1.40	1.50	1.50
Tractor	at least kg	1.400	1.500	1.700

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



Dimensions		125	145	155
A = m		2.45	2.65	2.82
B = m		1.90	1.90	1.87
C = m		1.25	1.45	1.56
D = m		0.30	0.30	0.39
E = m		1.80	1.80	1.80

SP cutter system, either...



Small flails



Fine-cutting blade B60

# SP

flail mulcher

# SSP

side *Safety Mulcher*



The SP/SSP side mulchers offer double implementation possibilities: They can be used as rear mulchers directly behind the tractor. With the long parallelogram it is swung to the side next to the tractor to mulch on waysides and roadsides, and for mulching embankments and ditches. The variable inclination range of 90° upward and 60° downward, as well as the variably adjustable swing ranges enable the greatest possible area of implementation!



**SP**  
flail mulcher



e.g.  
additional  
cutter systems  
page 9



**SSP**  
side *Safety Mulcher*





Infinitely variable inclination range of the mower head of 90° upward and 60° downward.



Front attachment with a PTO speed of 540 rpm or hydraulic drive possible.



Integrated holder for convenient storage of the universal joint shaft.



The stable collision guard ensures the greatest possible protection against collisions obstructions.



Removable guard pot for easy mounting of the universal joint shaft.



Cat. II for dismounting ensures greater free space of the universal joint shaft.



Attractive performance in large-area use: Combined with a front mulcher a total working width of up to 5.40 m is achieved.

## Proven application areas

- Mulching of grass and light wood
- Ditches and embankments
- Roadside plantings, roadsides, edges of fields
- Area management and landscape management
- Municipal implementation
- Green area maintenance for airports and in solar parks
- Large area maintenance combination with front implement to 5.40 working width

## Equipment features

- Attachment: Rear – use as rear mulcher or side mulcher
- Attention: Front attachment with a PTO speed of 540 rpm or hydraulic drive possible
- Inclination range: 90° upward / 60° downward
- Stop valves ensure safe positioning of the machine
- Cat. II and III attachment
- Cat. II attachment for dismounting to achieve a greater lateral thrust
- High-quality angular gearbox: Robust, elastic drive via reinforced V-belt on the rotor shaft
- Track roller for good ground tracking and precise cutting height guidance
- Mechanical collision guard
- Spherical roller bearing in the rotor shaft
- Two parking feet
- Adjustable oil flow rate throttles, to regulate the swing and tilt cylinders in their movement speeds
- Stop valves ensure safe positioning of the machine
- Rotor-pipe diameter 140 mm
- Self-cleaning track roller with large spherical roller bearing
- Track roller diameter 170 mm

## Accessories / special equipment

- Wide angle universal joint shaft with 2 wide angles and cross profile, 40 kg
- Skid right

## Technical data

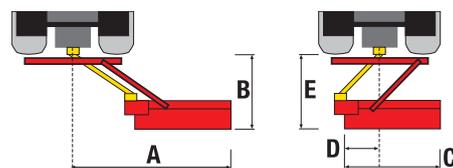
Flail mulcher	SP	155	180	200	220
"Y"-type blades	pcs	48	54	60	66
System flail	pcs	12	14	16	16

Side <i>Safety Mulcher</i>	SSP	155	180	200	220
Safety Mulcher cutter	pcs	18	21	24	26

<b>Working width</b>	<b>m</b>	1.56	1.80	2.00	2.20
<b>Total width</b>	<b>m</b>	2.28	2.52	2.72	2.92
<b>Power requirement*</b>	<b>from kW / hp</b>	60 / 82	59 / 81	66 / 90	66 / 90
<b>PTO shaft speed</b>	<b>RPM</b>	540			
<b>Weight**</b>	<b>approx. kg</b>	950	980	1.000	1.050
<b>Tractor track width</b>	<b>m</b>	1.80	1.80	2.00	2.20
<b>Tractor</b>	<b>at least kg</b>	2.500	3.000	3.400	3.400

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

\*\* Weight can deviate depending on equipment



Dimensions	155	180	200	220
A = m	2.86	3.10	3.30	3.50
B = m	1.87	1.87	1.87	1.87
C = m	1.56	1.80	2.00	2.20
D = m	0.25	0.25	0.25	0.25
E = m	2.01	2.01	2.01	2.01

SP cutter system, either...



"Y"-type blades



System flail... with fine-cut blade or claw blade



Universal flail

**SSK** flail mulcher

**SSG** side *Safety Mulcher*



The SSG and SSK series can be attached on the rear on all small tractors/compact tractors and they are available in left and right versions. Both series offer particularly versatile implementation.

With this mulcher application areas can be worked that cannot be reached with a front mulcher. Thus ditches and embankments are conveniently mulched and mulching under bushes and hedges is a breeze. On the tractor only a single-acting control device is required.



**SSK**  
flail mulcher

e.g.  
additional  
cutter systems  
page 11

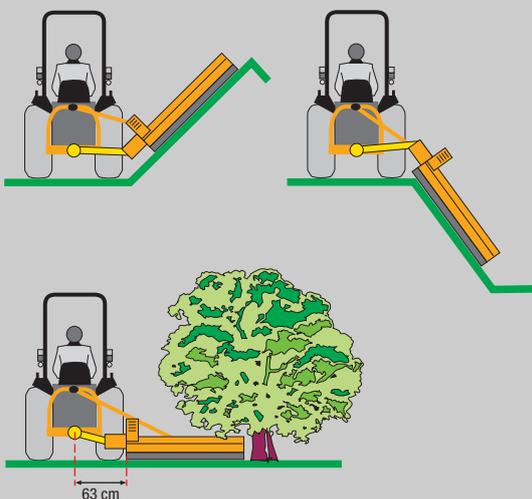


**SSG**  
side *Safety Mulcher*





Front attachment only possible with a PTO speed of 540 rpm or hydraulic drive.



Infinitely variable inclination range of the mower head of 90° upward and 60° downward.

## Proven application areas

- Mulching of grass – in parks even under bushes and hedges
- Ditches and embankments
- Roadside plantings on bicycle paths
- Along roads and paths and for maintenance of field edges
- Forestry applications – for wayside care
- Pasture management , area management and landscape management
- Municipal implementation
- Green area maintenance of fallow land
- Athletic facilities and parks, football grounds
- Standard tree orchards

## Equipment features

- Attachment: Front or rear
- Attention: Front attachment with a PTO speed of 540 rpm or hydraulic drive possible
- Inclination range: 90° upward / 60° downward
- Cat. I or II attachment
- Skids
- Track roller for good ground tracking and precise cutting height guidance
- Right boom / left boom
- Mechanical collision guard
- Adjustable throttle valve for slow lowering of the mulching head
- Two parking feet
- Wide mulch deposit behind the track roller
- Gearbox for mechanical drive or gear motor for hydraulic drive
- Self-cleaning track rollers

## Accessories / special equipment

- Universal joint shaft with freewheel
- Track wheel with spindle
- Hydraulic drive (shaft brake valve, anti-cavitation valve)

## Technical data

Technical data	SSK	125	145
Small flails / fine-cut blades	pcs	24	28
Side <i>Safety Mulcher</i>	SSG	125	145
Safety Mulcher cutter	pcs	18	21
Working width	m	1.25	1.45
Total width	m	2.30	2.50
Power requirement*	from kW / hp	17 / 23	19 / 26
PTO shaft speed	RPM	540	
Weight**	approx. kg	270	300

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

## SSK cutter systems, either...



Small flails



Fine-cutting blade B60

The humus SSK flail mower is equipped with flail cutters or fine-cut blades. They ensure a clean and good cut when mulching and really prove themselves when shredding shrubbery.



Hydraulic compact boom arm for small tractors and narrow gauge tractors or compact tractors.

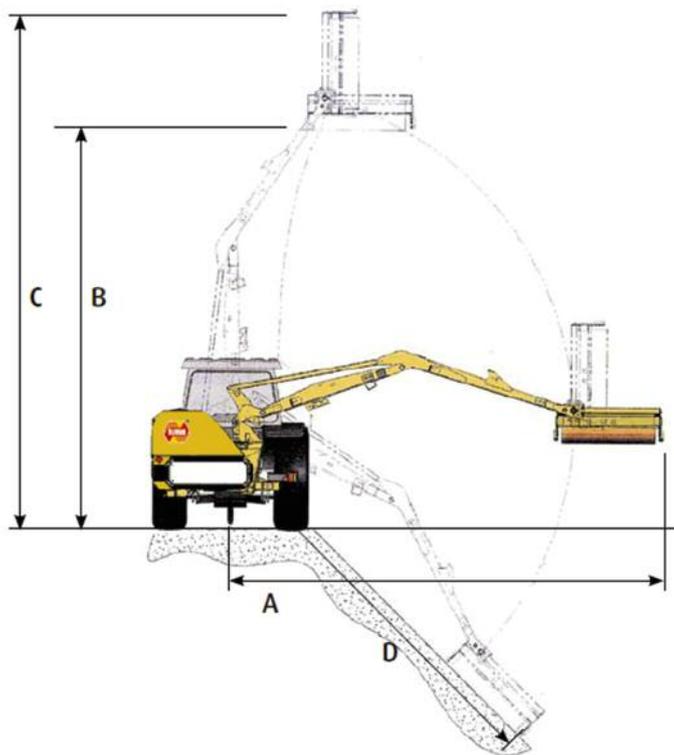
The BMS boom is factory equipped with a friction-reduced multi-lever Bowden cable control system.

Additional boom mowers on request!



**Optional: Single-lever electro-proportional control** – excellently suited for installation in the tractor cab.

The single-lever joystick control system gives the operator the possibility of controlling the height and the length of the boom arm with one lever. At least two cylinders can be activated simultaneously and variably. Thus precise and uniform control of the arm is provided.



Dimensions	BMS	3430	3530 Front	4330
A = m		3,40	3,50	4,30
B = m		3,00	2,85	4,10
C = m		3,80	3,85	4,20
D = m		2,00	2,00	2,55



### Optimal construction:

Through the arrangement for the BMS 3530 Front, the view is unobstructed during transport travel. Combined with the sliding mulching head, a reach of 3.50 m is achieved.



### Good overview:

To enable a better view of the implement for the operator, the BMS 3430 and BMS 4330 (option) can be delivered mounted in front – three-point Cat. I / II. A high top link attachment point permits work close to the tractor and above obstacles.



### Work facilitation:

A mechanical parallel guide of the boom arm offloads the operator: If there is a change in boom length the position of the implement remains unchanged.



### Optional:

Lopper – equipped with guide fingers and serrated lower cutter for a clean cut. Particularly well-suited for trimming to Ø 30 mm.



## Proven application areas

- Mulching of grass
- Ditches and embankments
- Roadside plantings
- Wayside maintenance
- Area management and landscape management
- Municipal implementation
- Hedge maintenance

## Equipment features

- Attachment: Front or rear
- Cat. I or II
- Right working – left working can also be ordered
- Including obstruction safeguard
- Stabilisation set for the three-point unit
- Tractor-independent hydraulic system
- Hydraulic collision guard
- Mechanical parallel guide
- Float position boom
- Float position mulching head
- Multi-lever Bowden cable operation – length of the cables:  
Rear attachment 2 m, front attachment 3.20 m

## Accessories / special equipment

- Delivery without hydraulic system or without operating unit possible
- Single-lever electro-proportional control unit incl. electric switch-off / switch-on of the implement
- Universal joint shaft with freewheel
- Lopper, working width 1.48 m or 1.95 m
- Flow divider for lopper (for machines from 60 l/min oil control)
- Fast-changer – boom side
- Fast-changer – implement side (mulcher / lopper)
- Mulching heads 16/17

## Technical data

	BMS	3430	3530 Front	4330
<b>Max. horizontal boom length</b>	<b>m</b>	3.40	3.50	4.30
<b>Pump capacity</b>	<b>l / m</b>	46	46	46
<b>Working pressure</b>	<b>bar</b>	210	210	210
<b>Oil tank volume</b>	<b>l</b>	66	66	66
<b>Power requirement*</b>	<b>min. kW / hp</b>	18 / 25	18 / 25	33 / 45
<b>PTO shaft speed</b>	<b>RPM</b>	540 or 1.000		
<b>Weight**</b>	<b>approx. kg</b>	330	350	430
<b>Tractor weight</b>	<b>at least kg</b>	1.200	1.750	1.900

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

\*\* Weight can deviate depending on equipment

## Suitable mulching heads

Suitable mulching heads for the BMS boom arm are on page 16/17.



**KMA** hydraulic mulching heads

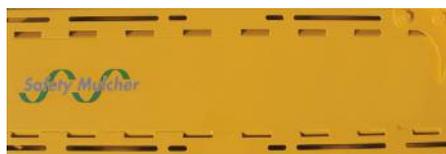
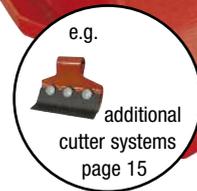
**SMA** hydraulic mulching heads  
*Safety Mulcher*



Heavy mulcher with hydraulic drive, for front attachment and attachment on large boom mowers, wheel loaders, excavators, etc. The mulching head is characterised by its extremely stable housing and strong bearings.



**KMA**  
hydraulic mulching heads



System angle bracket for easy adaptation of receptacle brackets or adapter frames



**SMA**  
hydraulic mulching heads  
*Safety Mulcher*





## Proven application areas

- Mulching of grass
- Ditches and embankments
- Roadside plantings
- Area management, landscape management, landscaping
- Municipal implementation
- Pasture area maintenance
- Green area maintenance of fallow land
- Large areas in combination with side mulchers
- Hedge maintenance
- Berry cultures

## Equipment features

- Attachment: Front, rear and boom
- With hydraulic drive
- Housing with system angle brackets for fast attachment on the tractor
- Overload safeguard through flexible V-belt drive
- Wide mulch deposit behind the track roller
- Track roller for good ground tracking and precise cutting height guidance
- Track roller diameter 170 mm
- Rotor pipe diameter 140 mm (KMA)
- Gear motor

## Accessories / special equipment

- Attachment plate
- Skids
- Shaft brake valve
- Anti-cavitation valve
- Water-repellent drive box
- Axial piston motor
- Hydraulic lateral adjustment

## Technical data

Flail mulcher	KMA	125	135	155	180	200	220
"Y"-type blades	pcs	36	42	48	54	60	66
System flail	pcs	10	10	10	14	14	16
<i>Safety Mulcher</i>	SMA	125		155	180	200	220
Safety Mulcher cutter	pcs	14		18	21	24	26
<b>Working width</b>	<b>m</b>	1.25	1.36	1.55	1.80	2.00	2.20
<b>Total width</b>	<b>m</b>	1.47	1.60	1.80	2.04	2.24	2.44
<b>Power requirement*</b>	<b>from kW / hp</b>	17/23	22/30	22/30	30/41	36/49	44/60
<b>Oil motors</b>	<b>l</b>			25 - 130			
<b>Weight**</b>	<b>approx. kg</b>	350	370	390	470	500	530

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

\*\* Weight can deviate depending on equipment

**KMA cutter systems, either...**



"Y"-type blades



Double "Y"-type blades



System flail... with fine-cut blade or claw blade



Universal flail

**SMK/H** hydraulic mulching heads

**SMH** hydraulic mulching heads  
*Safety Mulcher*



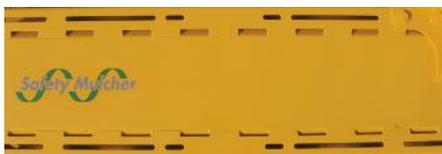
The series SMK/H / /SMH is designed for universal implementation. It has an extremely compact and low design and thus is particularly well-suited for attachment on special tractors, wheel loaders, mini-excavators, municipal vehicles and boom mowers. Moreover, a variable attachment system enables easy continued use of this mulcher if there is a vehicle change.



**SMK/H**  
hydraulic mulching heads



**SMH**  
hydraulic mulching heads  
*Safety Mulcher*



System angle bracket for easy adaptation of receptacle brackets or adapter frames





With hydraulic lateral adjustment



With track wheel set



With height compensation

## Proven application areas

- Mulching of grass
- Roadside plantings
- Area management, landscape management, landscaping
- Municipal implementation
- Sports facilities and parks
- Maintenance of meadow and pasture areas
- Green area maintenance of fallow land
- Large areas in combination with side mulchers
- Hedge maintenance
- Berry cultures
- Tree nurseries

## Equipment features

- Attachment: Front, rear and boom
- With hydraulic drive
- Housing with system angle brackets for fast attachment on the tractor
- Skids
- Track roller for good ground tracking and precise cutting height guidance
- Overload safeguard through flexible V-belt drive
- Wide mulch deposit behind the track roller
- Matching gear motor (oil motor) for the delivery rate (oil) of the tractor

## Accessories / special equipment

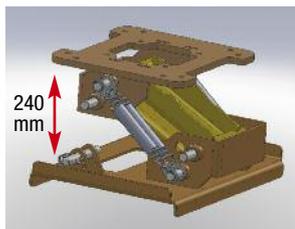
- Height compensation H 240 / 240 mm compensation (with and without swing compensation)
- Shaft brake valve
- Anti-cavitation valve
- Attachment plate
- Axial piston motor

## Technical data

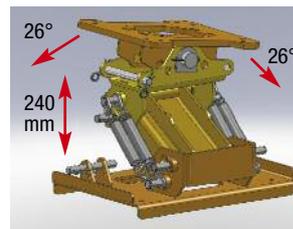
Flail mulcher	SMK/H	085	105	125	145	155	
<b>Small flails / fine-cut blade</b>	<b>pcs</b>	14	18	24	28	30	
<b>Safety Mulcher</b>	<b>SMH</b>	<b>085</b>	<b>105</b>	<b>125</b>	<b>145</b>	<b>155</b>	<b>175</b>
<b>Safety Mulcher cutter</b>	<b>pcs</b>	12	15	18	21	24	27
<b>Working width</b>	<b>m</b>	0.85	1.05	1.25	1.45	1.55	1.75
<b>Total width</b>	<b>m</b>	0.95	1.25	1.35	1.55	1.65	1.85
<b>Power requirement* from kW / hp</b>		8 / 11	12 / 16	17 / 23	22 / 30	26 / 36	28 / 38
<b>Oil motors</b>	<b>l</b>			25 – 130			
<b>Weight**</b>	<b>approx. kg</b>	120	140	155	180	205	285

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

\*\* Weight can deviate depending on equipment



Height compensation H 240



Height compensation H 240 P (with swing compensation)

**SMK/H  
cutter  
systems,  
either...**



Small flails



Fine-cutting blade B60

The humus SMK/H flail mower is equipped with Small flails or fine-cut blades. They ensure a clean and good cut when mulching and really prove themselves when shredding shrubbery.

# SPS flail mulcher



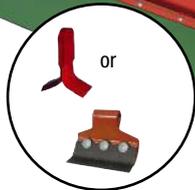
SPS cutter systems, either...



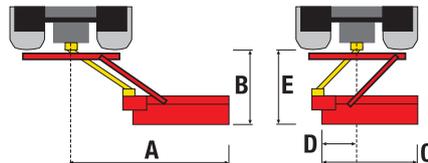
"Y"-type blades



Fine-cut blade



The SPS side mulcher is a light and attractively-priced side mulcher with pro qualities for all mulching tasks. The SPS is designed for power classes to 100 hp.



Dimensions	155	180	200
A = m	2,52	2,77	2,97
B = m	2,00	2,00	2,00
C = m	1,55	1,80	2,00
D = m	0,69	0,69	0,69
E = m	1,85	1,83	1,83

## Proven application areas

- Along roads, paths and the edges of fields
- Pasture management, area management and landscape management
- Sports facilities and parks
- Green area maintenance of fallow land
- Green area maintenance for airports
- Standard tree orchards

## Equipment features

- Attachment: Front or rear
- Inclination range: 90° upward / 60° downward
- Cat. I and II attachment
- Cat. I attachment for dismounting to achieve a greater lateral thrust
- Gearbox with freewheel
- High-quality angular gearbox: Robust, elastic drive via reinforced V-belt on the rotor shaft
- Track roller for good ground tracking and precise cutting height guidance
- Mechanical collision guard
- Adjustable attachment height can be adapted to the tractor type
- Easy maintenance, thanks to easily accessible lubrication points
- High-quality V-belt drive
- Spherical roller bearing in the rotor shaft
- Two parking feet
- Wide mulch deposit behind the track roller

## Accessories / special equipment

- Universal joint shaft with star profile, without freewheel
- Wide angle universal joint shaft with 2 wide angles and cross profile, 40 kg

## Technical data

Flail mulcher	SPS	155	180	200
"Y"-type blades	pcs	48	54	60
System flail	pcs	12	14	16

Working width	m	1.55	1.80	2.00
Total width	m	2.08	2.33	2.53
Power requirement* from kW / hp		30 / 40	35 / 50	44 / 60
PTO shaft speed	RPM	540		
Weight**	approx. kg	710	750	780
Tractor track width	m	1.50	1.80	1.80
Tractor	at least kg	1.800	2.200	2.700

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



The stable collision guard ensures the greatest possible protection against collisions obstructions.



Removable guard pot for easy mounting of the universal joint shaft.



Integrated holder for convenient storage of the universal joint shaft.



## 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**.



## Rotary mulchers

Rotary mulchers for orchards and vineyards, proven to be particularly effective due to their minimal height. Depending on the model the implements are variable in working width.

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



## Cultivation

The humus-PLANET has been developed for mechanical weed control. Thorough and gentle: The weed is pulled out with the root and then chopped.

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



Thanks to the special design and arrangement of the cutters on the rotor, ejection of rocks and other foreign objects is virtually suppressed.

Please request the special brochure, **Safety Mulchers**.

## Our product range



### Mouse killer

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

More information at  
[www.mausevernichter.de](http://www.mausevernichter.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



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**Your humus dealer**



[www.humus-mulchgeraete.de](http://www.humus-mulchgeraete.de)