



...more than
50 years of
innovative mulching
technology



...designed
and produced
in Germany



...for fruit and
vine growing



...for turf care
and
landscape care



...for agriculture
and forestry



...for mulching on
paths and slopes

Flail Mulchers



humus is symbolic for more than 50 years of innovative mulching technology for fruit and vine growing and for community service surface care.

We grew up with the design and manufacturing of mulching machines. Our machines, which are marketed under the brand name "humus" and are of great significance for fruit and vine growing, community services and for forestry.

We pioneered development of the first mulching machines for fruit growing applications in 1957, and still enjoy continuing success today. At present, the „humus“ product range comprises more than 100 different machine models.

For more than 50 years, the Maschinenfabrik Bermatingen has stood for competence and innovation. We invest large sums in research and development. We constantly strive to adapt our products to the requirements of our customers as well as to those of the market.

Our design engineers always keep two objectives in mind: on the one hand the realisation of advanced technical solutions with the development of user-friendly machinery and equipment, and on the other hand to consider a multitude of requirements which allow environmentally sound solutions.

Modern technology, ease of operation and proven safety are standard for us when developing our equipment - this has been documented by means of internationally valid certification.



Up to date productions systems assure a high standard of quality

All of our company divisions are united at the company headquarters in Bermatingen near Lake Constance, where administration, R&D, parts production and final assembly work together efficiently. Over the years, production floor space has grown over 7,000 m² and we are already considering further expansion.

Qualified and motivated employees assure the fulfilment of our ambitious business objectives with their exceptional commitment and team spirit. After all, industry leaders have to be willing to give more than just 100 %, and we stick to this principle. Continuous investment guarantees our high quality standard of our products. Systematic inspection and testing accompany all stages of the product: R&D, all production sequences up to shipment to our customers all over the world.

Precision work for satisfied customers

All of our products are the result of in-house R&D, where they are refined until they are ready for series production. In so far as it is feasible and economically viable for us, we also produce all parts ourselves.

Trained staff operates most modern production equipment. CNC welding robots, press brakes, CNC milling machines and our own Laser Centre are other essential prerequisites for a reliable and continuous fulfilment of our own quality requirements as well as those of our customers.

All our products receive its protective coating in our own painting system. Our Quality requirements apply to purchased standard parts as well, and we only use products which fulfil the toughest of international standards.



The company headquarters in Bermatingen near Lake Constance: Our expansive grounds provide us with ample opportunity for further expansion.



Our subsidiary, "Humus S.A.", represents us in France.



Recognition for exceptional performance has encouraged us to continue striving to offer always the best possible solutions to our customers.



...designed and
produced in Germany

*humus Mulchgeräte
aus Feinkornstahl*

★ leichter ★ stabiler
★ wertbeständiger!



humus Flail Mulchers

Page



The humus flail mulcher technology

Leading technology for excellent results

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WM model range

Rear or front mounting - for mulching and disintegration of harvesting residues, brushwood and scrub.

Working widths 0.85 to 1.45 m

2



KM model range

Rear or front mounting - for mulching and disintegration of harvesting residues, brushwood and scrub.

Working widths 1.55 to 2.00 m

3



KMF model range

Rear or front mounting - for mulching and disintegration of harvesting residues, brushwood and scrub.

Working widths 2.00 to 2.80 m

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Type A model range

Special front flail mulcher for special carrier vehicles - for mulching and disintegration of brushwood.

Working widths 1.55 to 2.20 m

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GFM model range

Open space mulcher - for rear or front mounting.

Working widths 4.00 to 5.70 m

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SP model range

Side mulcher - for mulching and disintegration of brushwood etc. - inclination up to +90° and -60°

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SMK model range

Rear or front mounting - for compact or small size carrier vehicles.

Working widths 0.85 to 1.55 m

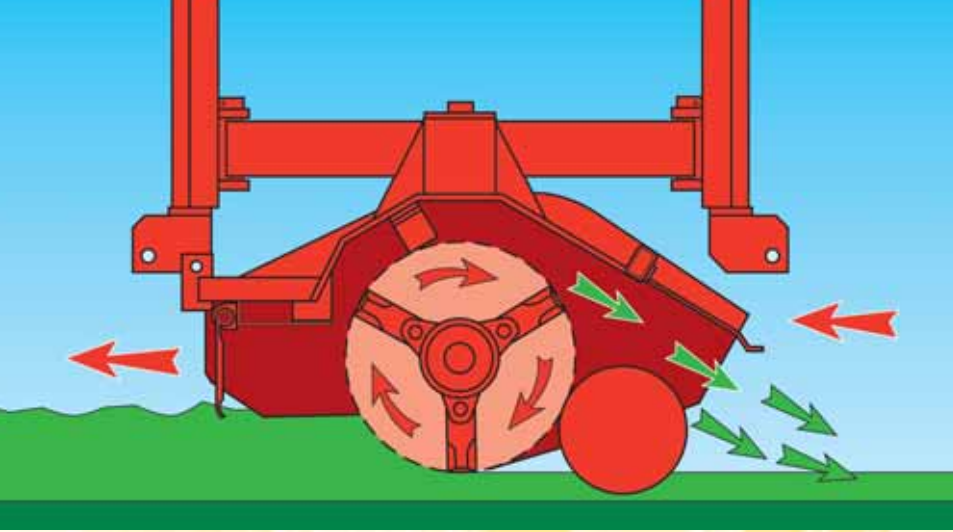
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SSK model range

Side mulcher - for compact and small size carrier vehicles - inclination up to +90° and descent up to -60°. Working widths 1.05 to 1.45 m (Flail technology left side)

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humus flail mulchers...
...smooth operation
...no blockage of material
...high performance

Outstanding technology for excellent results

The operating principle of all humus flail mulching machines:

The overlapping blades are suspended free pendulum on the electronically-dynamically balanced rotor, which is fitted with a generous roller bearing.

The blades transport the mown material past the disintegration rail - this leads to a fine disintegration. The growth is mown exactly in the set height and transported along the housing via the rear roller and spread equally behind the machine.

The humus flail mulchers
are fitted either with
"Y"-type blades or flails.

"Y"-type blades

They are hung in pairs and mow smooth, are persistent and require only few power. They assure an equal spread of the mown material. They can be used on both sides and are very popular, as they produce only little dust during operation.



Recommended range of use

- Surface care
- Scrub up to 5 cm or up to 10 cm Ø
- With stony ground
- Cultivation in rows
- For green fertilizing

Double-"Y"-type blades

Their characteristics are similar to those of the well proven standard "Y"-type blades, but with the advantage, that due to the broad mounting support, the fitting of flails is also possible.



Recommended range of use

- Recommended range of use
- Soil cultivation
- Surface care
- Brushwood
- For green fertilizing

Articular "Y"-type blades

They are supported by two pin-joints, this assures a clean cut and an excellent mulching result even with working on difficult grounds. An additional positive effect is, that the blades will be laid very close to the rotor and thus avoid alien objects.



Recommended range of use

- With road construction offices
- Parks and sports facilities
- With land communities
- Municipal use



System flails

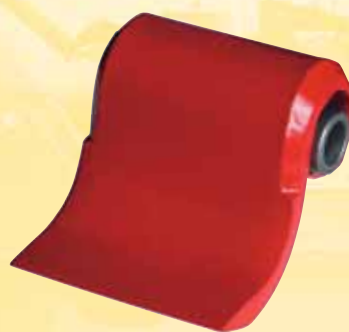
Due to its special design and high own weight, the system flails generate an advantageous suction effect and an excellent cutting result. The drop base of the flail carrier takes up either the fine-edge blade or the claw blade. The blades can be replaced economically.

Recommended range of use ...for fine cut edge blades

- Pasture care
- Scrub up to approx. 10 cm Ø
- Surface care
- Soil cultivation

...for claw blades

- Scrub up to approx. 10 cm Ø



Small flails

The humus flail mowers SMK, SMK/H, SP 125 bis 155, SMK/E and SSK are fitted with small flails. They generate a clean cut and are suitable for the disintegration of brushwood up to approx. 3 cm Ø.

Recommended range of use

- Mulching of grass
- Parks and sports facilities
- Alongside paths and roads
- Embankments and banks
- Municipal appliances



Club flails

They are for universal use, and are suitable both for mulching and for the disintegration of brushwood and scrub up to approx. 5 cm Ø.



Flail mulcher WM

Front or rear mounting

Well proven range of use

- Fruit and vine growing
- Gardening
- Berry cultivation
- Tree nurseries
- Parks and sports facilities
- Fallows
- Landscape care



The robust WM flail mulchers are fitted with a solid and untwisting steel sheet housing.

The compact design and drive box is ideal for mulching in the vine growing and other cultures in rows.



WM blade systems for choice

- "Y"-type blades
- System flails with fine cut edge or claw blade
- Club flails



The taking up and shredding attachment takes the scrap from the ground and accumulates the material in the housing for extra pulverisation.

WM characteristics

- Disintegration of scrub and undergrowth: up to approx. 5 cm Ø "Y"-type blades or flail blades and up to 8 cm Ø system flails
- Compact, solid and untwisting steel sheet housing
- Compact drive box - ideal for an operation in the vine growing and other cultivations in rows
- Solid, high-quality angular gear
- Powered by improved v-belts on the rotor shaft
- Rear roller for good ground and cutting height adjustment
- Self cleaning rear roller with generous roller bearings and rounded edges for treating the soil with care and for the guiding and height adjustment of the mulching machine



Rear roller for cutting height adjustment

Flail mulcher	type	WM 85	WM 95	WM 105	WM 115	WM 125	WM 145 only rear mounting
"Y"-type blades	pcs.	24	28	30	36	36	44
System flails		8	8	8	8	10	12
Working width	m	0.85	0.95	1.05	1.15	1.25	1.45
Overall width	m	0.95	1.05	1.15	1.25	1.35	1.60
Power requirement* min. kW/hp		13 / 18	13 / 18	13 / 18	16 / 22	18 / 55	22 / 30
Rpm of drive shaft	rpm	540 oder 1,000					
Weight	approx. kg	210	215	220	240	250	440

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



KM blade systems for choice

- "Y"-type blades
- System flails with fine cut edge or claw blade
- Club flails



Flail mulcher KM

Front or rear mounting

Well proven range of use

- Fruit and vine growing
- Alongside paths and roads
- Parks and sports facilities
- Airfields
- Fallows
- Forestry
- Pasture and grassland care
- Landscape care

KM characteristics

- For choice "Y"-type blades or system flails
- Disintegration of scrub and undergrowth: up to approx. 5 cm Ø "Y"-type blades or system flails and up to 10 cm Ø club flails
- Compact, solid and untwisting steel sheet housing
- Low overall height and drive – ideal for working in the fruit growing
- High-quality angular gear: robust but elastic drive via improved v-belts on the rotor shaft
- Self-cleaning rear roller with generous roller bearings
- Rounded edges for an improved manoeuvrability
- Cutting height adjustment via roller and top link
- Taking up and shredding attachment takes the scrap from the ground and accumulates the material in the housing for extra pulverisation.
- 3-point parallelogram side adjustment: for choice manually or hydraulically controlled
- Linear side adjustment with front machines

The flail mulcher KM is designed for universal use. The extremely flat design and the low drive are ideal for the use in the fruit growing. The serial 3-point parallelogram side shift (with rear mounting) with large setting range assures the lateral extension at the tractor. As the KM is mounted closely at the tractor the weight allocation is advantageous and guarantees a good manoeuvrability. The mown material is spread equally behind the roller.

Flail mulcher	type	KM 135	KM 155	KM 180	KM 200
"Y"-type blades	pcs.	42	48	54	60
System flails		10	12	14	16
Working width	m	1.35	1.55	1.80	2.00
Overall width	m	1.45	1.68	1.93	2.13
Power requirement* min. kW/hp		18 / 25	22 / 30	25 / 35	29 / 40
Rpm of drive shaft	rpm	540 oder 1,000 - je nach Ausrüstung			
Weight**	approx. kg	500	540	590	600

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

**Weight may differ according to equipment

KM accessories / options:



The wing

For mulching in tree rows a wing can be mounted at the side at the KM.



The row cleaner

To clean away scrap, the row cleaner can be mounted at the KM.



Flail mulcher KMF

Front and rear mounting

Well proven range of use

- Pasture and grassland care
- Alongside paths and roads
- Parks and leisure time areas
- Special cultivation and forestry
- Green fertilizing
- Surface care on airfields and fallows
- Landscape care
- Disintegration of scrub, root shoots and brushwood



The ideal ground adjustment of the KMF flail mulchers is assured by the large roller (Ø 244 mm) which copies the ground throughout the whole working width and ensures a smooth operation, even with an uneven ground.

KMF characteristics

- Disintegration of scrub and undergrowth up to 10 cm Ø
- Broad spread of the mown material behind the roller
- Compact, solid and untwisting steel sheet housing
- Serial drive shaft drift
- High-quality angular gear: robust but elastic drive via improved v-belts on the rotor shaft
- Outer spring-controlled v-belt tensioning and well ventilated v-belt box
- Self cleaning rear roller with generous roller bearings and rounded edges for an improved manoeuvrability – upon request also available fitted with wheels for mulching in cultivations in rows
- Cutting height adjustment via roller from 3 to 15 cm
- Parallelogram side adjustment: for choice manually or hydraulically controlled
- 2 supporting legs
- Service-friendly design – the grease points at the roller and the cutter rotor are easy to reach

The mechanic parallelogram side adjustment (upon request hydraulically controlled) and the serial drive shaft drift



Flail mulcher	type	KMF 220	KMF 240	KMF 260	KMF 300
"Y"-type blades	St.	60	66	72	84
System flails		16	16	20	24
Working width	m	2.00	2.20	2.40	2.80
Overall width	m	2.20	2.40	2.60	3.00
Power requirement* min. kW/hp		30 / 40	37 / 50	44 / 60	56 / 75
Rpm of drive shaft	U/min	540 oder 1,000			
Weight**	approx. kg	640	730	830	910

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

**Weight may differ according to equipment



The KMF front-mounted in the fallow care



The KMF rear-mounted for turf care



Equal spread of the mown material. The KMF works smoothly, stopping-up free and is suitable for mulching large areas.



Disintegration of scrub in the fruit-growing



High-quality v-belt drive, well-sized roller bearing with grease point and service-friendly v-belt tension.



The KMF in the pasture care

KMF blade systems for choice...



"Y"-type blades



Double "Y"-type blades



System flails
...with fine edge or claw blade



Club flails

Front flail mulcher type A

Front mounting

Well proven range of use

- Fruit and vine growing
- Gardening
- Berry cultivation
- Tree nurseries
- Parks and sports facilities
- Airfields
- Fallows
- Landscape care

The front flail mulcher type A is designed for a next to universal mounting onto all special tractors. Apart from the high performance with landscape care with local communities, the type A machine model offers excellent preconditions for mulching in lopes due to its solid and untwisting design, the agriculture and forestry as well as for fruit- and vine-growing.



Upon request also
available with hydraulic drive

Type A blade systems
for choice

- "Y"-type blades
- Double "Y"-type blades
- Articular "Y"-type blades
- System flails with fine cut edge or claw blade
- Club flails

Type A characteristics

- Made of high-quality fine-grained steel with improved solidity
- Drive with angular gear and improved adjustable v-belts
- Large-scale rotor shaft with strong pendulum roller bearing
- Self-cleaning roller with large ball bearing
- Roller with rounded edges for an improved manoeuvrability
- Lateral skids - adjustable in height

For the type A front mulching machine a supply tailor-made mounting equipment for

- | | | |
|-----------|---|------------------|
| ■ Holder | ■ Rasant | ■ AEBI Terratrak |
| ■ Tremo | ■ BCS | ■ Reformtrak |
| ■ Fendt | ■ Pasquali | ■ DE-Pietri |
| ■ Carraro | ...and for all special carrier vehicles | |



As an option, the type A front flail mulcher can also be fitted with a hydraulic side adjustment.



Also available fitted with the revolutionary Safety-Mulcher technology

The special design and arrangement of the blades fixed at the rotor eliminates almost completely the danger of stones and other material being thrown out during mowing and lifting the machine.

Flail mulcher	type	A 155	A 180	A 200	A 220
"Y"-type blades	pcs.	48	54	60	66
System flails		12	14	16	16
Working width	m	1.55	1.80	2.00	2.20
Overall width	m	1.65	1.90	2.10	2.30
Power requirement* min. kW/hp		26 / 34	30 / 41	36 / 48	44 / 55
Rpm of drive shaft	rpm	540 oder 1,000			
Weight**	approx. kg	500	510	560	610

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

**Weight without parallelogram shift



Flail mulcher GFM

Front or rear mounting

Well proven range of use

- Surface care on airfields
- Fallows
- Pasture and grassland care
- Landscape care
- Soil cultivation
- Mulching of maize straw
- Green fertilizing

GFM characteristics

- Broad spread of the mown material behind the rollers
- Solid and untwisting steel sheet housing
- High-quality angular gear: robust drive powered by improved v-belts on the rotor shaft
- Outer spring-controlled v-belt tensioning and well ventilated v-belt box
- Self-cleaning rear roller with generous roller bearings and rounded edges for treating the soil with care and for the guiding and height adjustment of the mulching machine
- Cutting height adjustment via rollers from 3 to 15 cm
- 2 supporting legs
- Service-friendly design - the grease points at the roller and the cutter rotor are easy to reach



Basing upon the well proven KMF flail mulcher, the GFM open space mulcher is fitted with a double-side drive. A bent plough installed at the centre bar guides the material to the blades. Two rollers assure the good ground adjustment of the mulcher.

Installation for driving

High-quality twin-v-belt drive

GFM blade systems for choice

- "Y"-type blades
- Double "Y"-type blades
- System flails with fine cut edge or claw blade
- Club flails



GFM flail mulcher front mounted



Flail mulcher	type	GFM 430	GFM 470	GFM 510	GFM 590
"Y"-type blades	pcs.	120	132	144	168
System flails		32	32	40	48
Working width	m	4.00	4.40	4.80	5.70
Overall width	m	4.40	4.80	5.20	5.90
Power requirement* min. kW/hp		81 / 110	96 / 130	111 / 150	125 / 170
Rpm of drive shaft	rpm	1,000			
Weight** approx. kg		1,080	1,280	1,400	1,720

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

**Weight without parallelogram shift



SP

Side mulcher

Front or rear mounting

Well proven range of use

- Grass and light brushwood
- Trenches and embankments
- Turf care and landscape care
- Municipal appliances
- Marginal strip grass
- Open space care in combination with front mulcher up to 5.00 m working width



The SP side mulcher offers various ways of application. It can be attached to the rear of the carrier vehicle or can be mounted to pivot sideways, this enables the operator to mow trenches and embankments with ease.



Type SP
155/180/200/220



Stageless variable inclination of the mulching head up to +90° and descent up to -60°

Side mulcher	type	SP 125	SP 145	SP 155		Type	SP 155	SP 180	SP 200	SP 220
Small flails	pcs.	24	28	30	"Y"-type blades System flails	pcs.	48 12	54 16	60 16	66 16
Working width	m	1.25	1.45	1.55			1.55	1.80	2.00	2.20
Overall width	m	1.70	1.90	2.03			1.70	2.30	2.50	2.70
Track of carrier vehicle	m	1.20	1.40	1.50			1.80	1.80	2.20	2.20
Power requirement* min. kW/hp		25 / 34	30 / 41	35 / 48			66 / 90	66 / 90	66 / 90	70 / 96
Rpm of drive shaft	rpm	540	540	540			540	540	540	540
Min. weight of carrier vehicle	kg	1,300	1,400	1,500			2,500	3,000	3,400	3,400
Weight**	approx. kg	515	535	555			900	1,000	1,020	1,100

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

**Weight without parallelogram shift

SP characteristics

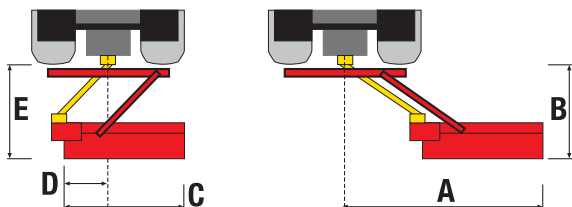
- Stop valve for a safe positioning of the machine with working widths 1.55 to 2.20 m
- Mounting Cat. I and II SP 125 - SP 155
Mounting Cat. II and III SP 155 - SP 220
- Removable mounting Cat. II in order to achieve a larger side shift
- Inclination up to +90°, descent up to -60°
- Rear roller for good ground and cutting height adjustment
- Mechanic obstacle safety device
- Variable mounting height – according to model of tractor - available with 1.25 to 1.55 m working width
- Appropriate blades for every field of application
- Disintegration of scrub and undergrowth up to 10 cm Ø possible
- Service-friendly design - the grease points are easy to reach
- Free pendulum suspension of the blades at the rotor
- High-quality v-belt drive
- 2 anti-tipping legs



Appealing performance with open space care - in combination with front mulcher up to 5.00 m working width.



Type SP
125/145/155



Type SP	125	145	155	Type SP	155	180	200	220
A = m	2.45	2.65	2.82	2.70	2.95	3.15	3.35	
B = m	1.90	1.90	1.87	2.00	1.87	1.87	1.87	
C = m	1.25	1.45	1.56	1.56	1.80	2.00	2.20	
D = m	0.30	0.30	0.39	0.39	0.39	0.39	0.39	
E = m	1.80	1.80	1.80	1.80	1.80	1.80	1.80	



The strong collision protection assures maximum protection when driving against an obstacle.



Removable mounting Cat. II in order to achieve a larger side shift.

Also available fitted with the revolutionary Safety-Mulcher technology.

The special design and arrangement of the blades fixed at the rotor eliminates almost completely the danger of stones and other material being thrown out during mowing and lifting the machine.



SP blade systems
for choice...



"Y"-type blades



System flails...
...with fine cut edge or claw blade



Small flails*



Club flails

*With 1.25 to 1.55 m working width only available fitted with small flails

Flail mulcher SMK

Front or rear mounting

Well proven range of use

- Gardening
- Berry cultivation
- Tree nurseries
- Parks and sports facilities
- Airfields
- Fallows
- Landscape care



The humus SMK up to 1.55 m has been designed to be an extremely compact machine which is suitable for all models of compact tractors and special tractors.

It has a flexible mounting system which makes it extremely simple to attach to the carrier vehicle.



SMK/E - for single-axle carriers - standard equipment

- Flange for mounting, suitable for the carrier vehicle
- Skids
- Roller for good surface adaptation and proper cutting height adjustment
- Broad spread of the mown material behind the roller
- Brake gearbox for braking the cutter rotor in 7 sec.



SMK - with gearbox drive - standard equipment

- Front mounting suitable for the carrier vehicle
- Skids
- Roller for good surface adaptation and proper cutting height adjustment
- Gearbox with drift and pivoting device
- Adjustable coupling triangle suitable for the carrier vehicle
- Option: hydraulic side shift



SMK/H - with hydraulic drive - standard equipment

- All-purpose housing without superstructural parts
- Skids
- Roller for good surface adaptation and proper cutting height adjustment
- Overload protection by flexible v-belt drive

Flail mulcher	type	SMK 085 SMK/H 085	SMK 105 SMK/H 105	SMK 125 SMK/H 125	SMK 145 SMK/H 145	SMK 155 SMK/H 155	SMK/E 085	SMK/E 105	SMK/E 125
Small flails	pcs.	14	18	24	28	30	14	18	24
Working width	m	0.85	1.05	1.25	1.45	1.55	0.85	1.05	1.25
Working width	m	0.95	1.25	1.35	1.55	1.65	0.95	1.15	1.35
Power requirement* min. kW/hp		8 / 11	11.5 / 15.6	16.7 / 22.7	22 / 30	26 / 34	8 / 11	11.5 / 15.6	16.7 / 22.7
Rpm of drive shaft	rpm	540, 1,000 or 2,000 - other rpm upon request							
Weight**	approx. kg	144 120	150 120	180 155	220 165	250 210	144	158	165

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

**Weight without parallelogram shift



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SSK side flail mulcher

Front or rear mounting

Well proven range of use

- Alongside paths and roads
- Parks and sports facilities
- Airfields
- Fallows
- Leisure time facilities
- Pasture and grassland care
- Landscape care
- Apple orchards

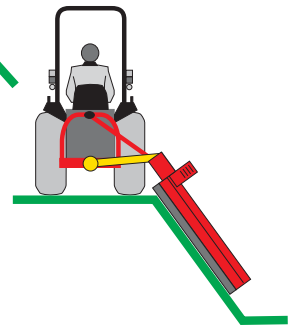
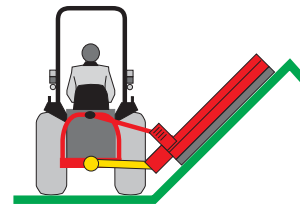
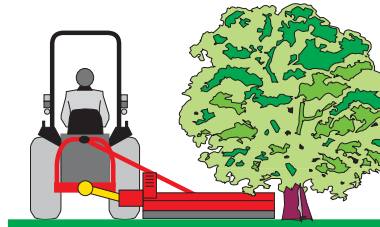
The SSK side mulcher is suitable for mounting onto all small tractors and is available for working either on the leftwing or rightwing of the carrier vehicle. Only a single or double acting control unit is required for the operation of this mulcher.

The humus SSG has extra features that make it superior to a front mounted mulcher.



SSK standard equipment

- Rear mounting Cat. I or II
- Skids
- Roller for good surface adaptation and proper cutting height
- Right or left extension
- Mechanic obstacle safety device
- Adjustable throttle valve for a smooth lowering of the mulching head
- 2 anti-tipping legs



Stageless variable inclination of the mulching head

- SSK model range: +90° upwards / -30° descent

SMK and SSK
flail mulchers
are fitted with
small flails



Flail mulcher	type	SSK 105	SSK 125	SSK 145
Small flails	pcs.	18	24	28
Working width	m	1.05	1.25	1.45
Overall width	m	2.10	2.30	2.50
Power requirement* min. kW/hp		13 / 17.7	17 / 23.1	19 / 20.3
Rpm of drive shaft	rpm		540	
Weight**	approx. kg	310	330	350

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

**Weight without parallelogram shift

Also available fitted with the revolutionary Safety-Mulcher technology.

The special design and arrangement of the blades fixed at the rotor eliminates almost completely the danger of stones and other material being thrown out during mowing and lifting the machine.





- Innovative technology
- Excellent working results
- Easy to operate
- Reliability
- High quality
- Solid design
- Service-friendly

For more than 50 years we have dealt with various aspects of mulching. We have a wide range of products and our humus machines are robust, reliable and cost effective.

The construction of the machines is of the highest standard, easy to maintain and to operate.

Our wide dealer network guarantees our customer the best quality service and support for many years after purchasing a humus machine.

We reserve the right to vary technical specifications and colours without prior notice. 02.2007

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Your humus specialised dealer



www.humus-mulchgeraete.de



Safety Mulching machines - the new mulching technology

The special design and arrangement of the blades fixed at the rotor eliminates almost completely the danger of stones and other material being thrown out.



Rotary mulchers

Rotary mulchers for fruit- and vine-growing, especially well proven due to their low overall height. Depending on the single machine model, the mulchers have a variable working width.



Side mulchers

For mulching at paths and embankments – equipped with "Y"-type blades, system flails of the „Safety“ blade rotor.



The humus-Planet for the mechanical weed control in the fruit- and vine-growing

Thoroughly but still gentle: The weed is pulled out with its roots and disintegrated.

humus is also strongly committed with the technology of the equipment, and offers a broad range of practical assistance for the harvest in the fruit-growing and pruning...



... humus forklifts for mounting



... Felco - electronic pruning shears



... humus cutting equipment