

# Product Catalog Mounted Machines



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**Made in Germany**

# Areal care needs experience

No matter what task you want to cope with, you will be delighted with the Kersten area machines. This includes the joy when high-performance machines master tough requirements, as well as the certainty that they can rely on reliable equipment after years.

## Why Kersten's Areal Machines?

Kersten is today one of the leading manufacturers of areal machines in Germany and Europe. The range includes attachments for all common carrier vehicles, from Riding Mowers over compact tractors to heavy tractors, Unimog and single axle carrier vehicles with modular suitable site maintenance equipment: for professional mowing, weed removal, sweeping, leaf removal and winter service. With a production depth of more than 90% in Rees, we can proudly claim that Kersten devices are „made in Germany“. In Germany, Kersten is represented across the relevant specialist trade, which also takes over the service of our equipment. If you want to know the right specialist dealer in your area, ask us!

## This is what Kersten does:

- ▶ **Innovation:** Our engineers and technicians are continually developing new product ideas that are linked to technological change.
- ▶ **High production depth:** Kersten produces 90% in Rees/Germany.
- ▶ **Materials:** All housings are made of solid, powder coated steel. We only use quality motors from well-known manufacturers.
- ▶ **Quality:** All production processes are subject to a special, stringent quality standard. This ensures that all devices do not only work from the outset, but also do their service after years.
- ▶ **Experience:** We have been dealing with the development and production of complex aggregates for several decades.
- ▶ **Inventor:** Kersten has several patents and usage patterns for machines and processes. And we are constantly working on improvements.
- ▶ **Spare parts:** In particular wear parts are held for many years of repairs. This ensures a long service life of the machines.
- ▶ **Fast delivery:** Kersten machines are manufactured with a few exceptions because of their complexity. Nevertheless, we are able to meet customer requirements in a relatively short time.
- ▶ **Advice and sales:** You do not buy a pig in a poke. Several Kersten application consultants are on-site for you and demonstrate the solutions in a personal demonstration. Our machines are delivered exclusively through the specialized trade, which also takes care of your support.
- ▶ **Employees:** our biggest asset. Highly qualified and motivated, they give their best, so that you always have a lot of fun with your Kersten device.



# Handling this Product Catalog

We have tried to make this product catalog easy, clear and vivid. Our goal is that you can quickly find the right product for your application without personal advice. This is why all devices are arranged according to size and application. In addition, you will find all the technically necessary details and notes. If you still have questions, do not hesitate to contact us.

- Define application in size and scope
- Check compatibility with carrier machine (attachment coupling)

We supply trailer couplings for almost every vehicle of all brands. The order must include a filled-in data sheet. This data sheet can be obtained from us, or can be downloaded from [www.kersten-maschinen.de/Data Sheet](http://www.kersten-maschinen.de/Data Sheet)

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**Would you like a personal consultation or a demonstration?**

**We will be pleased to provide you with your advisor.**

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# Which device for which application?

## Sweeping

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	<b>Sweepers for compact Tractors</b> working width 115/130/150/165 cm Diameter 45 cm	from Page 14
	<b>Sweepers rear Attachment</b> working width 125/150 cm Diameter 40 cm	from Page 20
	<b>Sweepers for Tractors from 25 HP</b> working width 130/147/165/190/225 cm Diameter 50 cm	from Page 24
	<b>Sweepers</b> for farming Tractors, Forklifts, Wheel Loaders, telecopic Forklifts, Unimog working width 125/150/165/190/225 cm Diameter 52 cm	from Page 30
	<b>Professional Sweepers</b> working width 190/225/250/270 cm Diameter 60 cm	from Page 32
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## Winter maintenance

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## Weed removal

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## Leaf removal

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## Lawn cultivation

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## Applications for 2-wheel-tractor (Foreign manufacture)

	Sweepers, Snowblades, Weed brushes, Leaf blowers for 2-wheel-tractors	Page 67
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# Sweepers for Riding Mowers

working widths 100/115/125 cm  
Diameter 37 cm

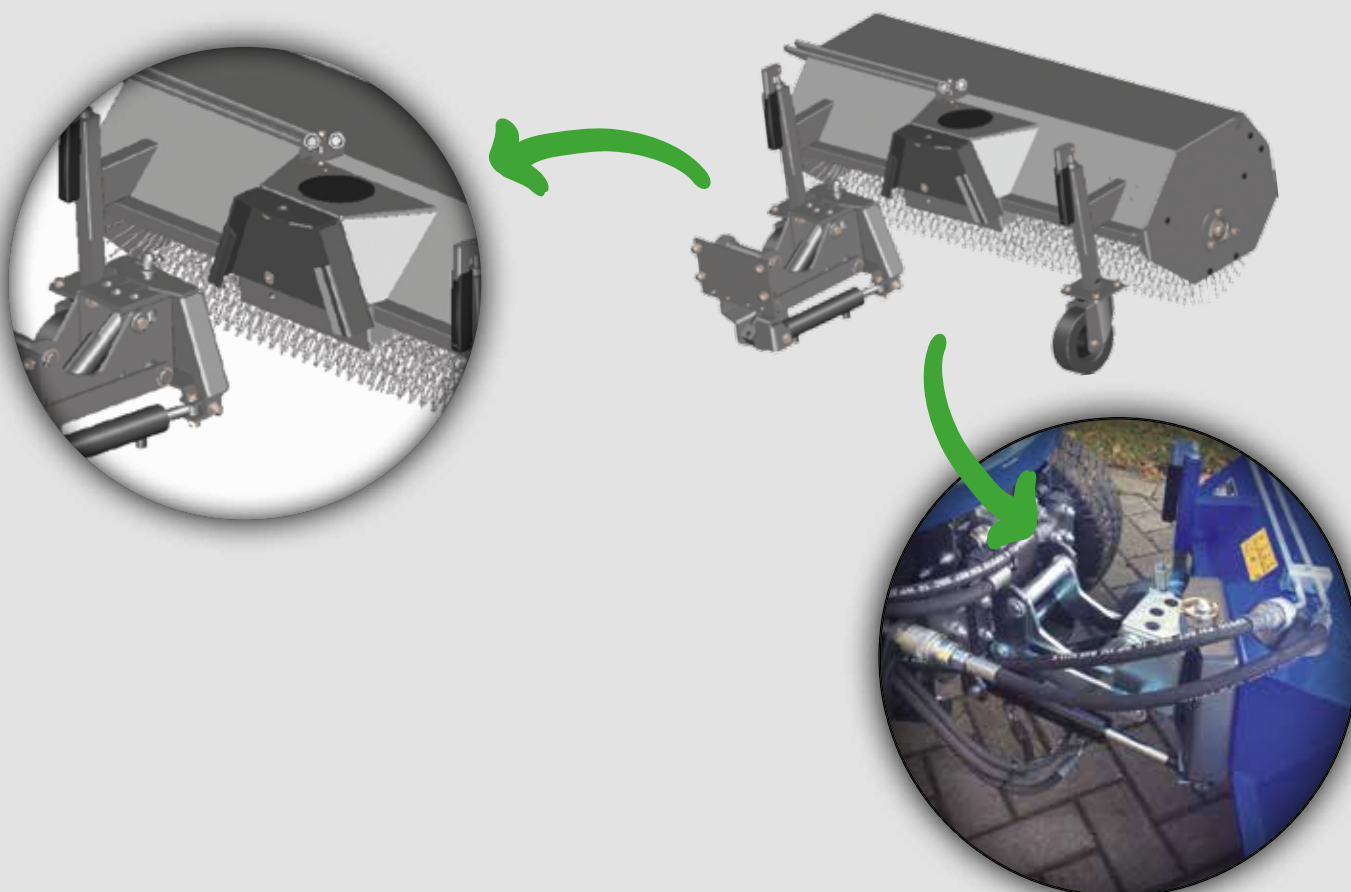






## Sweeper with hydraulic drive

allows fast coupling with standardized interface for other attachments (snow blades, weed brush, thermic weed burner, leaf blower)



## Sweepers for Riding Mowers, hydraulically driven

Item No.	Description
<b>KM 10037 H-FKDR</b> working width 100 cm	<b>Sweeper 100 cm working width</b> Diameter 37 cm <ul style="list-style-type: none"> <li>hydraulically driven</li> <li>incl. combined Sweeper</li> <li>2 height adjustable Wheels 135 x 40 mm</li> <li>hydraulic quick coupler</li> <li>suitable for mounting on the front coupling triangle</li> </ul> <b>FKDR-HYDR required</b>
<b>KM 11537 H-FKDR</b> working width 115 cm	<b>Sweeper 115 cm working width</b> further Description see KM 10037 H-FKDR
<b>KM 12537 H-FKDR</b> working width 125 cm	<b>Sweeper 125 cm working width</b> further Description see KM 10037 H-FKDR
<b>Front coupling triangle</b> For inquiries and orders always exact type Riding Mower. Note: Due to the new EN ISO 5395, front dome triangle no longer for all ride-on Mowers available!	
<b>FKDR-HYDR-...</b>	<b>Front coupling triangle hydraulic</b> <ul style="list-style-type: none"> <li>integrated hydraulic lift</li> <li>hydraulic pivoting from the driver's seat</li> <li>Hydraulic tank with control valve (1 dw +1 dw with floating position)</li> <li>Speed selection for attachments</li> <li>to attach on Sweepers, Snow ploughs, spreaders</li> <li>incl. mounting frame for Riding Mowers</li> </ul>

Options for Riding Mower Sweeper	
<b>AST 37 LR</b>	Jack stands for KM - Diameter 37 cm for supporting Sweeper
<b>GUSPL 100</b>	Splash guards Rubber 100 cm working width <ul style="list-style-type: none"> <li>incl. attachments</li> <li>pluggable mounted</li> </ul>
<b>GUSPL 115</b>	Splash guards Rubber 115 cm working width further Description see Art.: GUSPL 100
<b>GUSPL 125</b>	Splash guards Rubber 125 cm working width further Description see Art.: GUSPL 100
<b>SSB 100 K</b>	Dirt collector 100 cm working width <ul style="list-style-type: none"> <li>of PE Plastic</li> <li>2 PUR caster Wheels for precise ground tracking</li> <li>adjustable Adapter</li> <li>2 Handles</li> <li>Rubber sealing lip above</li> <li>Lever lock</li> </ul>
<b>SSB 115 K</b>	Dirt collector 115 cm working width further Description see Art.: SSB 100 K
<b>SSB 125 K</b>	Dirt collector 125 cm working width further Description see Art.: SSB 100 K
<b>ASM 403237</b>	Side broom - 40 cm working width <ul style="list-style-type: none"> <li>mechanically driven through Broom shaft</li> <li>height and angle adjustable</li> <li>Breakaway device</li> <li>Broom flaps aside</li> <li>for Sweeper with 32 or 37 cm Walzendurchmesser</li> </ul>
<b>ASH 403237</b>	Side broom - 40 cm working width <ul style="list-style-type: none"> <li>hydraulically driven</li> </ul> further Description see Art.: ASM 403237



# Sweepers for Compact Tractors (15-25 HP)

working widths 115/130/150/165 cm  
Diameter 45 cm







## Sweepers for Compact Tractors (15-25 HP), mechanically or hydraulically driven

Mechanically driven	
Item No.	Description
<b>KM 11545 M-ABR 45</b> (without Mounting frame) <b>Working width 115 cm</b>	<b>Sweeper 115 cm Working width</b> <b>Diameter 45 cm</b> <ul style="list-style-type: none"> <li>mechanically driven</li> <li>incl. combined Sweeper</li> <li>mechanically left- and right swivel</li> <li>2 height adjustable Wheels 135 x 40 mm</li> <li>incl. PTO</li> <li>incl. Jack Stands</li> </ul> <b>Mounting frame ABR 45 required</b>
<b>KM 13045 M-ABR 45</b> (without Mounting frame) <b>Working width 130 cm</b>	<b>Sweeper 130 cm Working width</b> <b>Diameter 45 cm</b> further Description see KM 11545 M-ABR 45
<b>KM 15045 M-ABR 45</b> (without Mounting frame) <b>Working width 150 cm</b>	<b>Sweeper 150 cm Working width</b> <b>Diameter 45 cm</b> further Description see KM 11545 M-ABR 45
<b>KM 16545 M-ABR 45</b> (without Mounting frame) <b>Working width 165 cm</b>	<b>Sweeper 165 cm Working width</b> <b>Diameter 45 cm</b> further Description see KM 11545 M-ABR 45
Sweepers, hydraulically driven	
On the carrier vehicle, a control valve and a free return in the tank is required. The recommended flow rate is 20 L / min. at 180 bar pressure. Flow stream please specify when ordering!	
<b>KM 11545 H-ABR 45</b> (without Mounting frame) <b>Working width 115 cm</b>	<b>Sweeper 115 cm Working width</b> <b>Diameter 45 cm</b> <ul style="list-style-type: none"> <li>hydraulically driven</li> <li>internal orbital motor</li> <li>incl. combined Sweeper</li> <li>mechanically left- and right swivel</li> <li>2 height adjustable Wheels 135 x 40 mm</li> <li>incl. Jack Stands</li> </ul> <b>ABR 45 required</b>
<b>KM 13045 H-ABR 45</b> (without Mounting frame) <b>Working width 130 cm</b>	<b>Sweeper 130 cm Working width</b> <b>Diameter 45 cm</b> further Description see KM 11545 H-ABR 45
<b>KM 15045 H-ABR 45</b> (without Mounting frame) <b>Working width 150 cm</b>	<b>Sweeper 150 cm Working width</b> <b>Diameter 45 cm</b> further Description see KM 11545 H-ABR 45
<b>KM 16545 H-ABR 45</b> (without Mounting frame) <b>Working width 165 cm</b>	<b>Sweeper 165 cm Working width</b> <b>Diameter 45 cm</b> further Description see KM 11545 H-ABR 45



# Sweepers for Compact Tractors (15-25 PS), mechanically or hydraulically driven

Sweepers Mounting frame for Compact Tractors	
When ordering precise carrier vehicle type and Mounting type specify (see Data Sheet Page 68)	
Item No.	Description
ABR 45 US-...	Mounting frame Quick Hitch
ABR 45 KD-...	Mounting frame Coupling triangle attachment
ABR 45 DP-...	Mounting frame Coupling triangle attachment Kat I and II
ABR 45 FM-...	Mounting frame Area Mower (2-Point)

Front power lift Kubota Compact Tractors	
FKHB-KUB - ...	<b>Front power lift hydraulically-mechanically</b> with hydraulic power lift consisting of: <ul style="list-style-type: none"> <li>• Mounting frame Coupling triangle, Lifting cylinders</li> <li>• for mounting on Tractor, incl. connectings for hydraulic swiveling</li> <li>• Hydraulic set for connection to the mower lift</li> <li>• Suitable for Kubota G 23/G 26 LD/HD/B 1220</li> </ul>
FKHB-H-KUB- ...	<b>Front power lift hydraulically-hydraulically</b> <ul style="list-style-type: none"> <li>• Including hydraulic drive unit</li> <li>• Tank and pump</li> <li>• infinitely variable drive</li> <li>• With hydraulic lifting and double acting</li> </ul> Hydraulic connection at the front for swivel attachments, consisting of the front coupling triangle, lifting cylinder, base frame <ul style="list-style-type: none"> <li>• For mounting on the tractor</li> <li>• Is integrated into tractor hydraulics</li> <li>• Suitable for Kubota G 23/G 26 LD/HD/B 1220</li> </ul>



## Sweeper for Compact Tractor (15-25 HP), mechanically or hydraulically driven

Options	
Item No.	Description
HSZ-180	<b>Hydraulic Swivel</b> <ul style="list-style-type: none"> <li>for two-sided swiveling the machine</li> </ul>
KDZ 1250	<b>Chain sprocket</b> <ul style="list-style-type: none"> <li>for rotation speed increase when clearing snow</li> </ul>
GUSPL 11545	<b>Splash guards Rubber - 115 cm</b> <ul style="list-style-type: none"> <li>pluggable mounted as a splash guard</li> <li>bei Benutzung ohne Behälter empfehlenswert</li> </ul>
GUSPL 13045	<b>Splash guards Rubber - 130 cm</b> further Description see GUSPL 11545
GUSPL 15045	<b>Splash guards Rubber - 150 cm</b> further Description see GUSPL 11545
GUSPL 16545	<b>Splash guards Rubber - 165 cm</b> further Description see GUSPL 11545
SSB 11545 K	<b>Dirt collector 115 cm</b> <ul style="list-style-type: none"> <li>incl. hydraulic Container drain</li> <li>PE Plastic</li> <li>2 Wheels front</li> </ul>
SSB 13045 K	<b>Dirt collector 130 cm</b> further Description see SSB 11545 K
SSB 15045 K	<b>Dirt collector 150 cm</b> further Description see SSB 11545 K



## Sweeper for Compact Tractor (15-25 HP), mechanically or hydraulically driven

Options	
Item No.	Description
ASM 4045 KM	<b>Side broom 40 cm Durchmesser</b> <ul style="list-style-type: none"> <li>mechanically driven</li> <li>Broom flaps aside</li> <li>height and angle adjustable</li> <li>to sweep out of corners and edges</li> </ul>
ASH 4045 KM	<b>Side broom 40 cm Durchmesser</b> <ul style="list-style-type: none"> <li>hydraulically driven</li> <li>continuously adjustable over control valve</li> <li>Broom flaps aside</li> <li>height and angle adjustable</li> <li>to sweep out of corners and edges</li> </ul> <p><b>When installing a ASH 4045 KM on Sweepers with pto drive a controller dw or ew with return is required. When mounted on Sweepers with hydraulic drive of the drive on the Sweeper hydraulic occurs.</b></p>
EMV	<b>Electromagnetic valve</b> <ul style="list-style-type: none"> <li>for installation in Sweeper</li> <li>thereby only 1 dw required</li> <li>Function: swiveling and sweeping drive</li> </ul>
WAS 100 AUF	<b>Water spray 100 Liter</b> <ul style="list-style-type: none"> <li>electric submersible pump 12V</li> <li>Nozzle bar for Sweeper construction</li> <li>For setting up on the Sweeper</li> </ul> <p><b>12V socket connector on the carrier vehicle required</b></p>
WAS 200 Heck	<b>Water spray 200 Liter</b> <ul style="list-style-type: none"> <li>electric submersible pump 12V</li> <li>Nozzle bar for Sweeper construction</li> <li>For setting rear mountings</li> </ul> <p><b>12V socket connector on the carrier vehicle required</b></p>
BG-LEUCHTEN	<b>Position Lights red-white</b>
WA-FLAG	<b>Set warning flags with holder</b>



# Sweepers rear mounted

working widths 125/150 cm  
Diameter 40 cm







## Sweeper rear mounted

### hydraulically driven

On the carrier vehicle, a control valve and a free return in the tank is required. The recommended flow rate is 20 L / min. at 180 bar pressure Flow. **Please specify when ordering!**

Item No.	Description
<b>HKM 12540 H</b> working width 125 cm	<b>Sweeper 125 cm working width</b> <ul style="list-style-type: none"> <li>• hydraulically driven</li> <li>• internal orbital motor</li> <li>• Diameter 40 cm</li> <li>• Drive via duplex chain</li> <li>• 2 height adjustable via spindles with thrust bearing Wheels 200 x 50 mm</li> <li>• mechanically left and right swivel</li> <li>• incl. combined Sweeper</li> <li>• Coating RAL 3020</li> <li>• suitable for rear attachment Kat. I</li> </ul>
<b>HKM 15040 H</b> working width 150 cm	<b>Sweeper 150 cm working width</b> further Description see Art.: HKM 12540 H
<b>Mechanically driven</b>	
<b>HKM 12540 M</b> working width 125 cm	<b>Sweeper 125 cm working width</b> <ul style="list-style-type: none"> <li>• mechanically driven via PTO</li> <li>• Diameter 40 cm</li> <li>• 2 height adjustable via spindles with thrust bearing Wheels 200 x 50 mm</li> <li>• incl. PTO</li> <li>• mechanically left and right swivel</li> <li>• incl. combined Sweeper</li> <li>• Coating RAL 3020</li> <li>• suitable for rear attachment Kat. I</li> </ul>
<b>HKM 15040 M</b> working width 150 cm	<b>Sweeper 150 cm working width</b> further Description see Art.: HKM 12540 M

## Sweeper rear mounted

Options	
Item No.	Description
MP-MR-ST	<b>Flow Control Valve</b> (for Sweepers with hydraulic drive.) <ul style="list-style-type: none"> <li>For stepless speed regulation</li> </ul>
HB-SSB-HFKM	<b>Hydraulic Container emptying</b>
HSZ-180	<b>Hydraulic Swivel</b> <ul style="list-style-type: none"> <li>for two-sided swiveling the machine</li> </ul>
SPA 125	<b>Splash guard 125 cm</b> <ul style="list-style-type: none"> <li>galvanized sheet metal</li> <li>incl. rubber flaps</li> </ul>
SPA 150	<b>Splash guard 150 cm</b> further Description see Art.: SPA 125
SSB 12540	<b>Dirt collector 125 cm working width</b> <ul style="list-style-type: none"> <li>galvanized sheet metal</li> <li>mechanical emptying</li> </ul> <b>Splash guard SPA 125 required</b>
SSB 15040	<b>Dirt collector 150 cm working width</b> further Description see Art.: SSB 12540
ASH 5040 H	<b>Side broom 50 cm Diameter</b> <ul style="list-style-type: none"> <li>hydraulically driven, infinitely adjustable</li> <li>Breakaway device</li> <li>Mounting plate</li> <li>for Sweeper with <b>hydraulic Drive</b></li> </ul>
ASH 5040 M	<b>Side broom 50 cm Diameter</b> <ul style="list-style-type: none"> <li>hydraulically driven, infinitely adjustable</li> <li>Breakaway device</li> <li>Mounting plate</li> <li>for Sweeper with <b>mechanic Drive</b></li> <li>Driven by Tractor hydraulics</li> </ul> <b>1 x Control device with unpressurized backflow required</b>



# Sweeper for Tractors (from 25 HP)

working widths 130/147/165/190/225 cm  
Diameter 50 cm







## Sweeper for Tractor (from 25 HP)

Sweeper mechanically driven for Tractor with front hydraulic linkage and PTO

Item No.	Description
<b>KM 13050 M-ABR 50</b> (without Mounting frame) working width 130 cm	<b>Sweeper 130 cm working width</b> <b>Diameter 50 cm</b> <ul style="list-style-type: none"> <li>• mechanically driven</li> <li>• Quick release axle</li> <li>• incl. combined Sweeper</li> <li>• hydraulic swivel left and right (1 x dw required)</li> <li>• oscillating suspension</li> <li>• 2 height adjustable via spindles with thrust bearing Wheels 200 x 50 mm</li> <li>• incl. Splash guards Rubber</li> <li>• incl. PTO</li> <li>• incl. Jack Stands</li> </ul> <b>ABR 50 required</b>
<b>KM 14750 M-ABR 50</b> (without Mounting frame) working width 147 cm	<b>Sweeper 147 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 M-ABR 50
<b>KM 16550 M-ABR 50</b> (without Mounting frame) working width 165 cm	<b>Sweeper 165 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 M-ABR 50
<b>KM 19050 M-ABR 50</b> (without Mounting frame) working width 190 cm	<b>Sweeper 190 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 M-ABR 50
<b>KM 22550 M-ABR 50</b> (without Mounting frame) working width 225 cm	<b>Sweeper 225 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 M-ABR 50

### For hydraulically driven Sweeper

On the carrier vehicle, a control valve and a free return in the tank is required. The recommended flow rate is 40 L / min. at 140 bar pressure. Flow Please specify when ordering!

## Sweeper for Tractor (from 25 HP)

Item No.	Description
<b>KM 13050 H-ABR 50</b> (without Mounting frame) working width 130 cm	<b>Sweeper 130 cm working width</b> <b>Diameter 50 cm</b> <ul style="list-style-type: none"> <li>hydraulically driven infinitely variable</li> <li>internal orbital motor</li> <li>Quick release axle</li> <li>incl. combined Sweeper</li> <li>hydraulic swivel left and right (1 x dw required)</li> <li>oscillating suspension</li> <li>2 height adjustable via spindles with thrust bearing Wheels 200 x 50 mm</li> <li>Splash guards Rubber</li> <li>incl. Jack stands</li> </ul> <b>ABR 50 required</b>
<b>KM 14750 H-ABR 50</b> (without Mounting frame) working width 147 cm	<b>Sweeper 147 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 H-ABR 50
<b>KM 16550 H-ABR 50</b> (without Mounting frame) working width 165 cm	<b>Sweeper 165 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 H-ABR 50
<b>KM 19050 H-ABR 50</b> (without Mounting frame) working width 190 cm	<b>Sweeper 190 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 H-ABR 50
<b>KM 22550 H-ABR 50</b> (without Mounting frame) working width 225 cm	<b>Sweeper 225 cm working width</b> <b>Diameter 50 cm</b> further Description see KM 13050 H-ABR 50

### Mounting frame for Tractors

When ordering precise carrier vehicle types and Mounting type specify (see Data Sheet Page 68)

Item No.	Description
<b>ABR 50 KD-...</b>	<b>Mounting frame Coupling triangle attachment</b>
<b>ABR 50 DP-...</b>	<b>Mounting frame Coupling triangle attachment Kat I and II</b>
<b>ABR 50 FM-...</b>	<b>Mounting frame Area Mower (2-Point)</b> (not available for all Models)





## Sweeper for Tractor (from 25 HP)

Options	
Item No.	Description
MP-RD 180 X 80	<b>Laufräder 180 x 80 mm</b> <ul style="list-style-type: none"> <li>incl. heavy rotary disk, instead of the standard Wheels</li> </ul>
AST 4050 LR	<b>Jack stands for Diameter 40 or 50 cm</b> <ul style="list-style-type: none"> <li>with Impellers</li> <li>for easy installation and removal of Sweeper</li> <li>for storage of Sweeper</li> </ul>
KDZ 1300	<b>Chain sprocket</b> <ul style="list-style-type: none"> <li>for Sweepers with 50 cm Ø</li> <li>speed increase when clearing snow</li> </ul>
SSB 13050 B	<b>Dirt collector 130 cm</b> <ul style="list-style-type: none"> <li>incl. hydraulic Container drain</li> <li>Made of sheet steel</li> <li>Pluggable attached</li> </ul>
SSB 14750 B	<b>Dirt collector 147 cm</b> further Description see SSB 13050 B
SSB 16550 B	<b>Dirt collector 165 cm</b> further Description see SSB 13050 B
SSB 19050 B	<b>Dirt collector 190 cm</b> further Description see SSB 13050 B
SSB 22550 B	<b>Dirt collector 225 cm</b> further Description see SSB 13050 B

## Sweeper for Tractor (from 25 HP)

Options	
Item No.	Description
ASH 50 KM 4050 M	<b>Side broom 50 cm</b> <ul style="list-style-type: none"> <li>hydraulically driven</li> <li>with Mounting plate</li> <li>continuously adjustable over control valve</li> <li>installed oil supply in Sweeper</li> <li>separately switchable</li> <li>Circular broom hard</li> <li>suitable for all KM ... M (mechanical drive)</li> </ul>
ASH 50 KM 4050 H	<b>Side broom 50 cm</b> <ul style="list-style-type: none"> <li>hydraulically driven</li> <li>with Mounting plate</li> <li>continuously adjustable over control valve</li> <li>Ölversorgung in Sweeper eingebaut</li> <li>separately switchable</li> <li>Circular broom hard</li> <li>suitable for all KM ... M (mechanical drive)</li> </ul>
EMV	<b>Electromagnetic valve</b> <ul style="list-style-type: none"> <li>for installation in Sweeper</li> <li>thereby only 1 dw required</li> <li>Function: swiveling and sweeping drive</li> </ul>
WAS 100 KAT 1	<b>Water spray 100 Liter</b> <ul style="list-style-type: none"> <li>electric submersible pump 12V</li> <li>Nozzle bar for Sweeper construction</li> <li>suitable for three-point linkage CAT 1</li> <li>required 12V socket connector on the carrier vehicle</li> </ul>
WAS 200 KAT 1	<b>Water spray 200 Liter</b> further Description see WAS 100 KAT 1
WAS 100 Auf	<b>Water spray 100 Liter</b> <ul style="list-style-type: none"> <li>electric submersible pump 12V</li> <li>Nozzle bar for Sweeper construction</li> <li>For setting up on the Sweeper</li> <li>required 12V socket connector on the carrier vehicle</li> </ul>
BG-LEUCHTEN	<b>Position Lights red-white</b>
WA-FLAG	<b>Set warning flags with holder</b>



# Professional Sweeper

for Farming Tractors, Forklifts, Wheel Loaders,  
Telescopic Forklift, Communal Vehicles and Unimog

working widths 125/150/190/225/250/270 cm

Diameter 52/60 cm

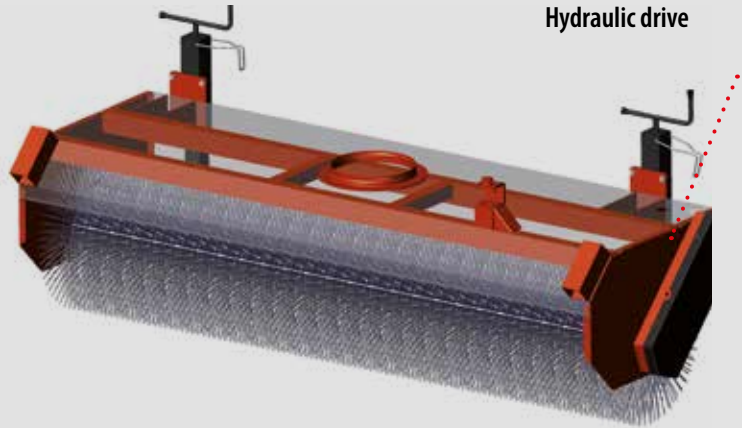




A robust construction and processing  
The Sweeper provides stability – made in Germany!

Tube support frame below the  
Cover and ball screw

Inside  
Hydraulic drive



## Sweeper for Farming Tractors, Forklifts, Wheel Loaders, Telescopic Forklift, Communal Vehicles and Unimog

Item No.	Description
Hydraulically driven On the carrier vehicle, a control valve and a free return in the tank is required. The recommended flow rate is 35 L / min. at 180 bar pressure. Flow Please specify when ordering!	
<b>KM 12552 H</b> (without Mounting frame) working width 125 cm	<b>Sweeper 125 cm working width</b> <b>Diameter 52 cm</b> <ul style="list-style-type: none"> <li>• hydraulically driven</li> <li>• internal orbital motor</li> <li>• Antrieb über Duplexkette</li> <li>• 2 height adjustable via spindles with thrust bearing Wheels 200 x 50 mm</li> <li>• Mechanically pivoted left and right over slewing ring Diameter 300 mm</li> <li>• incl. Combined Sweeper</li> <li>• incl. Three-way valve for free sweeping with open</li> <li>• Collecting Container</li> <li>• incl. Jack Stands</li> </ul> <b>ABR 52 ... required</b>
<b>KM 15052 H</b> (without Mounting frame) working width 150 cm	<b>Sweeper 150 cm working width</b> <b>Diameter 52 cm</b> further Description see Art.: KM 12552 H
<b>KM 19052 H</b> (without Mounting frame) working width 190 cm	<b>Sweeper 190 cm working width</b> <b>Diameter 52 cm</b> further Description see Art.: KM 12552 H
<b>KM 22552 H</b> (without Mounting frame) working width 225 cm	<b>Sweeper 225 cm working width</b> <b>Diameter 52 cm</b> further Description see Art.: KM 12552 H
<b>Mounting frame (see Data Sheet Page 68)</b>	
<b>ABR 52 HT-...</b>	<b>Mounting frame with Höhenausgleich for Farming Tractors</b>
<b>ABR 52 HECK</b>	<b>Mounting frame for Rear three-point Kat I and II</b>
<b>ABR 52 FRONT</b>	<b>Mounting frame for Front three-point Kat I and II</b>
<b>ABR 52 EURO-...</b>	<b>Mounting frame with height adjustment for Euro Connecting</b>
<b>ABR 52 GS</b>	<b>Mounting frame for Forklift tines</b>
<b>ABR 52 GS-HA</b>	<b>Mounting frame with height adjustment for Forklift tines</b> <ul style="list-style-type: none"> <li>• 3. Wheel (Art.-No. LR-SSB-KM or MP-LR-ABR 52 KPL) required</li> </ul>
<b>ABR 52 GKD</b>	<b>Mounting frame for three-point-angle</b>

Further Mounting frame auf Anfrage.

## Sweeper for Farming Tractors, Forklifts, Wheel Loaders, Telescopic Forklift, Communal Vehicles and Unimog

Options for Sweeper Typ KM 12552 - KM 22552	
Item No.	Description
MP-MR-ST	<b>Flow Control Valve</b> <ul style="list-style-type: none"> <li>For stepless speed regulation</li> </ul>
HSZ-180	<b>Hydraulic Swivel</b> <ul style="list-style-type: none"> <li>for two-sided swiveling the machine</li> </ul>
SPL 12552	<b>Splash guard 125 cm</b> <ul style="list-style-type: none"> <li>Plate apron long</li> <li>Splash guards Rubber</li> <li>incl. mounting material</li> <li>with Collector not useable</li> </ul>
SPL 15052	<b>Splash guard 150 cm</b> further Description see Art.: SPL 12552
SPL 19052	<b>Splash guard 190 cm</b> further Description see Art.: SPL 12552
SPL 22552	<b>Splash guard 225 cm</b> further Description see Art.: SPL 12552
SSB 12552	<b>Dirt collector 125 cm working width</b> <ul style="list-style-type: none"> <li>pluggable mounted</li> <li>incl. hydraulic Tank drainage</li> <li>Retrofitting of the container not possible!</li> </ul>
SSB 15052	<b>Dirt collector 150 cm working width</b> further Description see Art.: SSB 12552
SSB 19052	<b>Dirt collector 190 cm working width</b> further Description see Art.: SSB 12552
SSB 22552	<b>Dirt collector 225 cm working width</b> further Description see Art.: SSB 12552
ASH 5052	<b>Side broom 50 cm Diameter</b> <ul style="list-style-type: none"> <li>hydraulically driven, infinitely adjustable</li> <li>Breakaway device</li> <li>Mounting plate</li> </ul>
MP-LR-ABR 52 KPL	<b>Impeller Mounting frame</b> <ul style="list-style-type: none"> <li>Height adjustment via spindle</li> </ul>
LR-SSB-KM 52	<b>Impeller</b> <ul style="list-style-type: none"> <li>for attaching in front of the dirt collector</li> </ul>
WAS 100 KM 52	<b>Water spray 100 Liters</b> <ul style="list-style-type: none"> <li>- for setting up on the Sweeper</li> <li>- Nozzle bar for Sweeper construction</li> <li>- electric submersible pump 12V</li> </ul> <b>required 12V socket connector on the carrier vehicle</b>
WAS 200 KM 52	<b>Water spray 200 Liters</b> <ul style="list-style-type: none"> <li>- for setting up on the Sweeper</li> <li>- Nozzle bar for Sweeper construction</li> <li>- electric submersible pump 12V</li> </ul> <b>required 12V socket connector on the carrier vehicle</b>





## Professional Sweeper with 60 cm Diameter

Item No.	Description
<p>Hydraulically driven On the carrier vehicle, a control valve and a free return in the tank is required. The recommended flow rate is 50 L / min. at 180 bar pressure.</p>	
<p><b>KM 19060 H</b> (without Mounting frame) <b>working width 190 cm</b></p>	<p><b>Professional Sweeper 190 cm working width</b></p> <ul style="list-style-type: none"> <li>• hydraulically driven</li> <li>• internal orbital motor</li> <li>• heavy sturdy carrying frame construction</li> <li>• Diameter 60 cm</li> <li>• Drive through duplex chain</li> <li>• 2 Heavy-duty props with thrust bearing Impellers 200 x 80</li> <li>• pivoted mechanically left and right above Slewing ring Diameter 400 mm</li> <li>• incl. Combined Sweeper</li> <li>• incl. Three-way valve for free sweeping with open</li> <li>• Collecting Container</li> <li>• incl. Flow Control Valve</li> </ul> <p><b>ABR 60 ... required</b></p>
<p><b>KM 22560 H</b> (without Mounting frame) <b>working width 225 cm</b></p>	<p><b>Professional Sweeper 225 cm working width</b> <b>Diameter 60 cm</b> further Description see Art.: KM 19060 H</p>
<p><b>KM 25060 H</b> (without Mounting frame) <b>working width 250 cm</b></p>	<p><b>Professional Sweeper 250 cm working width</b> <b>Diameter 60 cm</b> further Description see Art.: KM 19060 H</p>
<p><b>KM 27060 H</b> (without Mounting frame) <b>working width 270 cm</b></p>	<p><b>Professional Sweeper 270 cm working width</b> <b>Diameter 60 cm</b> further Description see Art.: KM 19060 H</p>
<p><b>Mounting frame</b> (see Data Sheet Page 68)</p>	
<b>ABR 60 HECK</b>	<b>Mounting frame for rear three-point Cat I and II</b>
<b>ABR 60 FRONT</b>	<b>Mounting frame for front three-point Cat I and II</b>
<b>ABR 60 EURO ...</b>	<b>Mounting frame with height adjustment for Euro Connecting</b>
<b>ABR 60 TELE ...</b>	<b>Mounting frame with height adjustment for Telescopic Loaders and Wheel Loader, incl. 2 heavy duty Wheels for mounting front the Dirt Collector</b>
<b>ABR 60 GS</b>	<b>Mounting frame for Forklift tines</b>
<b>ABR 60 KD</b>	<b>Mounting frame for Dome triangle</b>

Further Mounting frames on request.

Options for Sweeper Typ KM 19060 - KM 27060	
Item No.	Description
HSZ-180 KM 60	<b>Hydraulic Swivel</b> <ul style="list-style-type: none"> <li>for two-sided swiveling the machine</li> </ul>
SPL 19060	<b>Splash guard 190 cm</b> <ul style="list-style-type: none"> <li>Plate apron long</li> <li>Splash guards Rubber</li> <li>incl. mounting material</li> </ul> <b>with container unusable</b>
SPL 22560	<b>Splash guard 225 cm</b> further Description see Art.: SPL 19060
SPL 25060	<b>Splash guard 250 cm</b> further Description see Art.: SPL 19060
SPL 27060	<b>Splash guard 270 cm</b> further Description see Art.: SPL 19060
SSB 19060	<b>Dirt collector 190 cm working width</b> <ul style="list-style-type: none"> <li>incl. protective cover</li> <li>incl. hydraulic Collector draining with 2 cylinders</li> </ul> <b>Can not retrofit the container!</b>
SSB 22560	<b>Dirt collector 225 cm working width</b> further Description see Art.: SSB 19060
SSB 25060	<b>Dirt collector 250 cm working width</b> further Description see Art.: SSB 19060
SSB 27060	<b>Dirt collector 270 cm working width</b> further Description see Art.: SSB 19060
AKL 22560	<b>Scraper bar on hydraulic actuation</b> <b>225 cm working width</b>
AKL 25060	<b>Scraper bar on hydraulic actuation</b> <b>250 cm working width</b>
AKL 27060	<b>Scraper bar on hydraulic actuation</b> <b>270 cm working width</b>
MP-LR-ABR 60 KPL	<b>Wheel on Mounting frame</b> <ul style="list-style-type: none"> <li>Height adjustment via spindle</li> </ul>
ASH 7060 L	<b>Side broom 70 cm Diameter, left</b> <ul style="list-style-type: none"> <li>hydraulically driven, infinitely adjustable</li> <li>Sweeping angle adjustment</li> <li>Breakaway device</li> <li>Mounting plate</li> </ul>
ASH 7060 R	<b>Side broom 70 cm Diameter, right</b> <ul style="list-style-type: none"> <li>hydraulically driven, infinitely adjustable</li> <li>Sweeping angle adjustment</li> <li>Breakaway device</li> <li>Mounting plate</li> </ul>
WAS 100 KM 60	<b>Water spray 100 Liters</b> <ul style="list-style-type: none"> <li>for setting up on the Sweeper</li> <li>Nozzle bar for Sweeper construction</li> <li>electric submersible pump 12V</li> <li>required 12V socket connector on the carrier vehicle</li> </ul>
WAS 200 KM 60	<b>Water spray 200 Liters</b> further Description see Art.: WAS 100 KM 60
BG-LEUCHTEN	<b>Position Lights red-white</b>
WA-FLAG	<b>Set warning flags with holder</b>
EMV-KM 60	<b>Electromagnetic valve</b> <ul style="list-style-type: none"> <li>for installation in Sweeper</li> <li>thereby only 1 dw required</li> <li>Function: swiveling and sweeping drive</li> </ul>



# Professional Sweeper

with 70 cm Diameter

for Tractor, Unimog, Wheel Loaders, Telescopic Forklift

working widths 250/270/300 cm

Diameter 70 cm



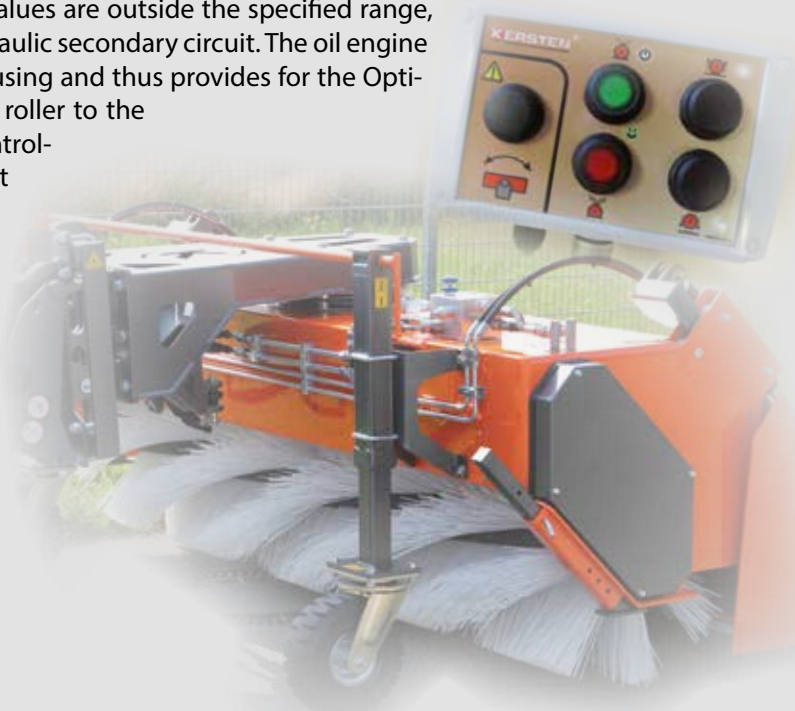


# KM CONTROL



## Sweeping with control

The fact that conventional sweepers can only be set manually can be a source of concern for many users. In practice, the Adjustment by hand often carried out too aggressively and the sweeping roller set too low. As a result, the machine is unnecessarily subjected to a high load and a high wear of the sweeping roller is the result. A newly developed control unit KM CONTROL now provides a solution: the adjustment of the sweeping roller to the underground is automated. The hydraulic pressure at the drive motor of the sweeping roller is sensed via a sensor system. The evaluation of the measured values is carried out by a microprocessor, which permanently performs a set-point comparison. If the measured values are outside the specified range, an oil motor is started by means of a hydraulic secondary circuit. The oil engine is directly connected to the sweeper housing and thus provides for the Optimal height adjustment of the sweeping roller to the substrate. Operation is conveniently controlled via the control panel. Another aspect is safety and comfort. Since the sweeper is controlled via the control panel installed in the driver's cab, it is not necessary to leave the protected driver's cab during adjustment. According to data from the professional associations most avoidable accidents occur when leaving the cab.



## Special feature of the dirt collector

Usually, the dirt collecting container of a sweeper is connected to the sweeping drum housing via fixed pivots. For the ground clearance, two impellers are located behind the sweeping roller and at least one impeller in the front area, which can also be mounted on the collecting container. By such a stiff construction, a sweeper often loses contact with the ground when, for example, the system is lifted by the front runner when a slope is approached.

The Types KM ... 70 H sweepers now offer a remedy: These have a new suspension system or guide system for the collection container. A floating guide is attached to the sweeper, which ensures that only the collecting container is lifted when a slant is approached by means of an ingenious roller system. As a result, the sweeping roller does not lose contact with the underground at any time. This results in a better sweeping result, especially where uneven surfaces are often found. In addition, the sweeping roller does not have to be adjusted so low as to compensate for unevenness in the terrain. This reduces the wear, which in turn increases the profitability.



## Equipment/technical Data

Type of drive	hydraulically driven, internal hydromotor, speed regulation
working widths	(KM 25070 H) 250 cm / (KM 27070 H) 270 cm / (KM 30070 H) 300 cm
Sweeper Ø	70 cm Kombi-, Polyvolldraht-, Pollywelldrahtkehrwalze
Hydraulischer Antrieb	with starkem komplett innenliegendem Gerotormotor
Hydroblock	Überdruckventil, Nachlaufsicherung der Kehrwalze, Umschaltventil für Schmutzsammelwanne
Brush execution	Combined Roll, Snow Roll, Poly full roll, Poly wire roll
Hydraulic connection plug	By choice
Wheels	Super-Elastic Ø 300 x 105 mm
Swivel device	Mechanical, hydraulic optional
Jack stands	2 x side, tool-free adjustable
Coating	Powder coating, color of choice
Attachment	Wheel Loaders, Telescopic Forklift, Tractor, Device plate according to DIN-EN
<b>Options</b>	
Side brush	Ø 85 cm, right- and/or left, hydraulically driven
Dirt collector	Hydraulic, sensing wheel Super-elastic Ø 250 x 85 mm
Water spray	Incl. On / off switch, water tank in various sizes, with internal filter, Electric pressure pump (12/24 volts), flat jet nozzles
Speed controller	for Sidebrush
Scraper bar	hydraulic
Water spray for Sidebrush	With flat jet nozzles, incl. Stopcock
Swivel device	Hydraulic (additional double-acting control circuit required)
Lighting equipment	according to StVZO
Signal flag holder	Incl. Warning flags and warning markings






## Professional Sweeper with 70 cm Diameter for Tractor, Unimog, Wheel Loaders, Telescopic Forklift

Item No.	Description
<p>Hydraulically driven On the carrier vehicle, a control valve and a free return in the tank is required. The recommended flow rate is 50 L / min. at 180 bar pressure.</p>	
<p><b>KM 25070 H</b> (without Mounting frame) working width 250 cm</p>	<p><b>Professional Sweeper 250 cm working width</b></p> <ul style="list-style-type: none"> <li>• hydraulically driven</li> <li>• internal orbital motor</li> <li>• heavy sturdy carrying frame construction</li> <li>• Diameter 70 cm</li> <li>• 2 Heavy-duty props with Impellers 300 x 100 mm Height adjustment of the Sweeper via a crank</li> <li>• pivoted mechanically left and right above Slewing Ring Diameter 400 mm</li> <li>• incl. Combined Sweeper</li> <li>• multifunctional hydraulic block for all required functions (pressure relief valve, Lag fuse the broom, Diverter valve for dirt collection, flow control valve for infinitely variable speed of the Sweeper. Load-sensing safety valve)</li> <li>• prepared for floating mounted Collector</li> <li>• Powder coated RAL 2011</li> <li>• prepared for KM CONTROL * see Page 37</li> </ul>
<p><b>KM 27070 H</b> (without Mounting frame) working width 270 cm</p>	<p><b>Professional Sweeper 270 cm working width</b> <b>Diameter 70 cm</b> further Description see Art.: KM 25070 H</p>
<p><b>KM 30070 H</b> (without Mounting frame) working width 300 cm</p>	<p><b>Professional Sweeper 300 cm working width</b> <b>Diameter 70 cm</b> further Description see Art.: KM 25070 H</p>
<p><b>Mounting frame</b> (see Data Sheet Page 68)</p>	
<b>ABR 70 TELE</b>	<b>Mounting frame for Telescopic Loaders and Wheel Loader</b>
<b>ABR 70 GS</b>	<b>Mounting frame for Forklift tines</b>
<b>ABR 70 Unimog</b>	<b>Mounting frame for Unimog</b>
<b>ABR 70 Front</b>	<b>Mounting frame for front three-point Cat I and II</b>

## Professional Sweeper with 70 cm Diameter for Tractor, Unimog, Wheel Loaders

Options for Sweeper Typ KM 25070 - KM 30070	
Item No.	Description
HSZ-450	<b>Hydraulic Swivel</b> <ul style="list-style-type: none"> <li>for two-sided swiveling the machine</li> </ul>
EMV-KM70	<b>Electromagnetic valve</b>
<b>KM CONTROL</b> 	<b>Automatic height adjustment / monitoring the broom on the ground</b> <ul style="list-style-type: none"> <li>controllable via control panel from the vehicle</li> <li>permanent monitoring of the height adjustment</li> </ul>
SSB 25070	<b>Dirt collector 250 cm working width</b> <ul style="list-style-type: none"> <li>incl. Protective cover</li> <li>incl. hydraulic container emptying with 2 cylinders</li> <li>floatingly supported</li> </ul>
SSB 27070	<b>Dirt collector 270 cm working width</b> further Description see Art.: SSB 25070
SSB 30070	<b>Dirt collector 300 cm working width</b> further Description see Art.: SSB 25070
AKL 25070	<b>Scraper bar on hydraulic actuation 250 cm working width</b>
AKL 27070	<b>Scraper bar on hydraulic actuation 270 cm working width</b>
AKL 30070	<b>Scraper bar on hydraulic actuation 300 cm working width</b>
SPL 25070	<b>Splash guard including rubber mud flaps</b> <ul style="list-style-type: none"> <li>height adjustable, 250cm working width</li> </ul>
SPL 27070	<b>Splash guard including rubber mud flaps</b> <ul style="list-style-type: none"> <li>height adjustable, 270cm working width</li> </ul>
SPL 30070	<b>Splash guard including rubber mud flaps</b> <ul style="list-style-type: none"> <li>height adjustable, 300 cm working width</li> </ul>
ASH 8570 L	<b>Side broom 85 cm Diameter, left</b> <ul style="list-style-type: none"> <li>hydraulically driven, infinitely adjustable</li> <li>Sweeping angle adjustment</li> <li>Breakaway device</li> <li>Mounting plate</li> </ul>
ASH 8570 R	<b>Side broom 85 cm Diameter, right</b> <ul style="list-style-type: none"> <li>hydraulically driven, infinitely adjustable</li> <li>Sweeping angle adjustment</li> <li>Breakaway device</li> <li>Mounting plate</li> </ul>
BG-LEUCHTEN	<b>Position Lights red-white</b>
WA-FLAG	<b>Set warning flags with holder</b>
WAS 200 KM 60	<b>Water spray 200 Liters</b> <ul style="list-style-type: none"> <li>for setting up on the Sweeper</li> <li>Nozzle bar for Sweeper construction</li> <li>electric submersible pump 12V</li> <li>required 12V socket connector on the carrier vehicle</li> </ul>



# Winter service appliances

for Riding Mowers

Snow blades, Spreader

Snow blades: working widths 110/125/130/135/150/180/200 cm

Spreader: Capacity for 70 liters





## Winter service appliances for Riding Mower



Item No.	Description
<b>Snow blades</b>	
<b>SCHN 11045 FK-FKDR</b> working width 110 cm	<b>Snow blade 110 cm working width</b> <ul style="list-style-type: none"> <li>• 45 cm high</li> <li>• spring flaps</li> <li>• 2 retracting springs</li> <li>• adjustable Ground skids</li> <li>• adjustable ROBA-Scraper</li> <li>• suitable for mounting on the front coupling triangle</li> </ul> <b>FKDR or FKDR-HYDR required</b>
<b>SCHN 12545 FK-FKDR</b> working width 125 cm	<b>Snow blade 125 cm working width</b> further Description see SCHN 11045 FK-FKDR
<b>SCHN 12545 FK-PAK 2 JOH</b> working width 125 cm Package for JOHN DEERE X 540	<b>Snow blade 125 cm working width</b> <ul style="list-style-type: none"> <li>• 45 cm high</li> <li>• spring flaps</li> <li>• 2 retracting springs</li> <li>• adjustable Ground skids</li> <li>• adjustable ROBA-Scraper</li> <li>• incl. Front coupling triangle</li> <li>• Hydraulically lift and swing over board hydraulics by foot pedal</li> <li>• Only for attaching snow blades</li> <li>• incl. all attachment parts</li> </ul> <b>Suitable for John Deere X 540</b>
<b>SCHN 12545 FK-PAK 2 KUB</b> working width 125 cm Package for Kubota GR 21xx Series	<b>Snow blade 125 cm working width</b> further Description see SCHN 12545-FK-PAK 2 JOH <b>Suitable for GR 21xx Serie</b>
<b>Front lift for Riding Mower</b> Always specify the correct Riding Mowertype for queries and orders. Attention: Due to the new EN ISO 5395 no longer available for all Riding Mower!	
<b>FKDR-...</b>	<b>Front-coupling mechanical-mechanical</b> <ul style="list-style-type: none"> <li>• mechanically Lifting from the driver's seat</li> <li>• mechanically Swiveling from the driver's seat</li> <li>• only for mounting snow blades</li> <li>• incl. Mounting frame for Riding Mower</li> </ul>
<b>FKDR-HYDR-...</b>	<b>Front-coupling hydraulic-hydraulic</b> <ul style="list-style-type: none"> <li>• integrated hydraulic lift</li> <li>• hydraulic pivoting from the driver's seat</li> <li>• hydraulic reservoir with control valve (1 dw + 1 dw with floating position)</li> <li>• stepless rotation speed</li> <li>• to connect on Sweeper, Snow blade and Spreader</li> <li>• incl. Mounting frame for Riding Mower</li> </ul>
<b>Spreader</b>	
<b>SLDST 70 H-FKDR</b> (ohne Anbaukonsole)	<b>Spreader 70 Liter</b> <ul style="list-style-type: none"> <li>• for Spreading salt, sand, grit</li> <li>• hydraulically driven via Front coupling triangle</li> <li>• Spreading quantity regulation</li> <li>• Spreading widths from 0.5 to 4.0 m adjustable</li> <li>• long stir bar</li> <li>• Stainless Steel</li> </ul> <b>Extension console required</b>
<b>Extension console for Spreader</b>	
<b>AK-SLDST-H-...</b>	<b>Extension console rear attachment for Riding Mower</b> Attachments not possible at all the Riding Mower! Please specify exact Riding Mowertyp (brand and year).
<b>Options for Spreader</b>	
<b>ADP-SLDST</b>	<b>Cover for Spreader</b>

## Winter service appliances for Vehicles

Item No.	Description
<b>Snow blades for Forklifts, Tractors, Area Mowers</b>	
<b>SCHN 13545 FK-ABR</b> working width 135 cm Blade height 45 cm (without Mounting frame)	<b>Snow blade 135 cm working width</b> Blade height 45 cm <ul style="list-style-type: none"> <li>• spring flaps</li> <li>• 2 retracting springs</li> <li>• Hydraulic Swivel device</li> <li>• Ground skids</li> </ul> <b>Mounting frame ABR-SCHN required</b>
<b>SCHN 13060 FK-ABR</b> working width 130 cm Blade height 60 cm (without Mounting frame)	<b>Snow blade 130 cm working width</b> Blade height 60 cm <ul style="list-style-type: none"> <li>• spring flaps</li> <li>• 2 retracting springs</li> <li>• Hydraulic Swivel device</li> <li>• Slide disc</li> </ul> <b>Mounting frame ABR-SCHN required</b>
<b>SCHN 15060 FK-ABR</b> working width 150 cm Blade height 60 cm (without Mounting frame)	<b>Snow blade 150 cm (without Mounting frame)</b> further Description see SCHN 13060 FK-ABR
<b>SCHN 18060 FK-ABR</b> working width 180 cm Blade height 60 cm (without Mounting frame)	<b>Snow blade 180 cm (without Mounting frame)</b> further Description see SCHN 13060 FK-ABR
<b>SCHN 20060 FK-ABR</b> working width 200 cm Blade height 60 cm (without Mounting frame)	<b>Snow blade 200 cm (without Mounting frame)</b> further Description see SCHN 13060 FK-ABR
<b>Mounting frame for Snow blades</b> <b>When ordering precise carrier vehicle types and Mounting type specify (See Data Sheet Page 68). Further Mounting frame on request</b>	
<b>ABR-SCHN-US...</b>	<b>Mounting frame Quick Hitch</b>
<b>ABR-SCHN-KD...</b>	<b>Mounting frame Coupling triangle attachment</b>
<b>ABR-SCHN-DP...</b>	<b>Mounting frame Coupling triangle attachment Kat I and II</b>
<b>ABR-SCHN-FM...</b>	<b>Mounting frame Area Mower (2-Point)</b>
<b>ABR-SCHN-GS...</b>	<b>Mounting frame Forklift</b>
<b>Options for Snow blades</b>	
<b>RD-SCHN-G</b>	<b>Swivel Wheels for Snow blades from 130 cm</b>
<b>BG-LEUCHTEN</b>	<b>Position Lights red-white</b>
<b>WA-FLAG</b>	<b>Set warning flags with holder</b>



# Weed removing



## What you should know about weed removing

For environmental reasons the processing of wild cabbage with chemicals or salt is prohibited by law for some time and therefore taboo. Municipalities and private land owners are therefore looking for alternatives to environmentally friendly alternatives. There are now a lot of different methods, for example hot water or steam. These are, unfortunately, less effective, elaborate and usually expensive. We rely on two more effective alternatives.

### Mechanical weed removal on paved ways or places

Through many years of experience with weed removal, we rely on mature, effective techniques. On the one hand, the mechanical removal of the weed. There is a weed brush with a horizontal rotating plate. With a diameter of 40 cm to 110 cm, this brush is prepared for a wide variety of substrates, mainly on cobbled streets or paths. The choice is simple, with surface-friendly wire buckles and / or aggressive wire braids, so that not only a clean result is immediately visible, but this method also ensures fast working.



### Mechanical weed removal on trails or water-bound ceiling

On unconsolidated paths, for example, on water-bound ceilings and farmyards with gravel, the weed remover is equipped with vertical tools. Working widths of 90/110/150 cm radically remove not only the wild herb, but also the bulk of the root plant. Rapid re-growth is virtually impossible. As carrier machines for all mechanical weed removers are used Production coming single-axle, tugs and municipal vehicles of all established makes.





### Thermal removing with infrared heating

The second particularly effective option is the treatment of the wild herb with heat. The principle is simple: in combination with hot air and infrared heat, the protein structures of the wild are destroyed in such a way that the plant dies. It is also important to ensure that the treatment is as early as possible. For when the wild herb plants have reached a certain height (about 10 cm), an effective thermal treatment is no longer possible. As a rule of thumb for treatment, it is necessary to start in the growth period in March, when the plants are still very small. The operation is simple: depending on the vegetation, the wild grass remover is slowly driven at approx. 1.0 to 2.5 km / h over the infected surfaces. Plaster surfaces, gravel, grit or sand paths with regular traffic, eg urban and municipal plazas, walkways in residential areas and also park and cemetery systems, are suitable. The first result can be seen right after the treatment: The

plant is withered. After 1-2 days, the plant turns yellow and after about a week you can sweep the dead plant remnants from the surface. The treatment should be repeated every three to four weeks from the growth period in the spring to the autumn, in order to avoid rapid regrowth. Various aggregates are available for the thermal treatment of wild herbs. Depending on the use and surface performance as a hand-held device in working widths from 15 cm to 75 cm, as an attachment for single-axle or municipal machines in working widths from 75 to 125 cm. For example, the gas consumption is about 1.4 to 2.8 kg / hour for the thermHit 45 (45 cm working width) and about 6 kg / hour for the thermHit 75 (75 cm working width).

In contrast to other manufacturers Kersten covers the entire range from 8 cm to 125 cm working width, both mechanically and thermally. The advantage is that the user gets the right device from a single source for every application.





# Weed removing mechanically driven

Mechanical Weed brush for Riding Mower  
Mechanical Weed brush for Tractor  
Mechanical Weed remover (WE) for Tractor







UB 5070



WKBH-FKDR



UB 5070



WKBH-FKDR

## Weed brush for Riding Mowers

Item No.	Description
<b>Mechanical Weed removing</b>	
<b>WKBH-FKDR</b> 40 cm Brush plate	<b>Weed brush 40 cm working width</b> <ul style="list-style-type: none"> <li>• be swiveled hydraulically</li> <li>• Adjustable in 2 levels</li> <li>• Suitable for 50 and 70 cm Brush Diameter</li> <li>• Built-in support wheel</li> <li>• Height-adjustable splash guard</li> <li>• Load weight</li> <li>• Tuft mounting</li> </ul> <b>Mounting flange ABF-FKDR required</b>
<b>Mounting flange</b>	
<b>ABF-FKDR</b>	<b>Mounting flange</b> Suitable for WKBH for Riding Mowers

### Front coupling triangle

Always specify the correct Riding Mowertype for queries and orders.

Attention: Due to the new EN ISO 5395 no longer available for all Riding Mower!

#### FKDR-HYDR-...

Available for carriers

- JOHN DEERE
- Kubota
- ISEKI
- TORO
- Husqvarna
- STIGA
- VIKING

#### Front coupling triangle hydraulically

- Integrated hydraulic lift
- hydraulic pivoting from the driver's seat
- hydraulic reservoir with control valve (1 dw + 1 DA with floating position)
- stepless Speed selection for attachments
- for fixing of Sweeper, snow plow and spreader
- Incl. Mounting frame for the Riding Mower

## Weed brush for Tractors, Area Mowers and Communal tractors

Item No.	Description
<b>Weed brush mechanically driven</b>	
<b>UB 5070 M-ABR</b> 50/70/80 cm Brush plate (without Mounting frame)	<b>Weed brush Vehicles up to 80 HP</b> <ul style="list-style-type: none"> <li>mechanically driven by wide-angle PTO</li> <li>without Brush plate</li> <li>suitable for 50 and 70 cm Brush plate</li> <li>adjustable swivel range</li> <li>3 levels adjustable</li> <li>2 mechanically adjustable levels</li> <li>Plate adjustment back and forth hydraulic</li> <li>Height adjustable support wheel</li> <li>Side guard</li> <li>incl. PTO</li> </ul> <b>Mounting frame ABR-UB required. Hydraulic adjustment of all levels only possible with ST-UB control unit.</b>
<b>Weed brush hydraulically driven</b>	
<b>UB 5070 H-ABR</b> 50/70/80 cm Brush plate (without Mounting frame)	<b>Weed brush Vehicles up to 80 HP</b> <ul style="list-style-type: none"> <li>hydraulically driven</li> <li>without Brush plate</li> <li>suitable for 50 and 70 cm Brush plate</li> <li>adjustable swivel range</li> <li>3 levels adjustable</li> <li>2 mechanically adjustable levels</li> <li>Plate adjustment back and forth hydraulic</li> <li>Side guard</li> </ul> <b>Mounting frame ABR-UB required. Recommended flow rate 40 L / min. at 180 bar. Hydraulic adjustment of all levels only possible with UB ST control unit.</b>
<b>Mounting frame for Weed brush</b> Specify exact carrier vehicle types and method of attachment for inquiries and orders (see Data Sheet Page 68). Further mounting frame on request.	
<b>ABR-UB-KD-...</b>	<b>Mounting frame Coupling triangle attachment</b>
<b>ABR-UB-DP-...</b>	<b>Mounting frame Coupling triangle attachment Kat I and II</b>
<b>ABR-UB-FM-...</b>	<b>Mounting frame Area Mowers</b>
<b>Options for Weed brush</b>	
<b>BT 050 FL</b>	<b>Brush plate 50 cm</b> <ul style="list-style-type: none"> <li>Tuft equipment</li> </ul>
<b>BT 080 DS-KU</b>	<b>Brush plate 80 cm</b> <ul style="list-style-type: none"> <li>braids plastic covered</li> </ul> <b>from 30 HP recommended</b>
<b>BT 070 DS-KU</b>	<b>Brush plate 70 cm</b> <ul style="list-style-type: none"> <li>Bunch of flat / cored wire</li> </ul>
<b>ST-UB</b>	<b>Controller including additional hydraulic cylinder</b> <ul style="list-style-type: none"> <li>For easy operation of the UB</li> <li>Electro-valve block for control of hydraulic 3 cylinders</li> <li>Included Joy Stick control from the cab</li> </ul> <b>1 x Controller + 1 x Plug12 V required</b>
<b>ST-UB-RC</b>	<b>Controller including additional hydraulic cylinder</b> <b>ST-UB instead Joystick Radio Controlled</b> <ul style="list-style-type: none"> <li>Including radio remote control</li> </ul>
<b>HSZ-180 UB</b>	<b>Hydraulic Swivel</b> <ul style="list-style-type: none"> <li>for two-sided swiveling the machine</li> </ul>



UB 5070



UB 5070



UB 5070



UB 5070

## Weed brush for Tractors (Heavy series)



Item No.	Description
<b>Weed brush mechanically driven</b>	
<b>UB 7090 M-ABR</b> for 70/80/90/110 cm Brush plate (without Mounting frame)	<b>Weed brush</b> <b>for Vehicles from 80 HP (without tools)</b> <ul style="list-style-type: none"> <li>mechanically driven by wide-angle PTO</li> <li>without Brush plate</li> <li>suitable for 70 and 90 cm Brush plate</li> <li>adjustable swivel range</li> <li>3 levels swiveling</li> <li>2 levels mechanically swiveling</li> <li>1 level on hydraulic cylinders adjustable</li> <li>Height adjustable support wheel</li> <li>Side guard</li> <li>incl. PTO</li> </ul> <b>Mounting frame ABR-UB required</b>
<b>Weed brush hydraulically driven</b>	
<b>UB 7090 H-ABR</b> for 70/80/90/110 cm Brush plate (without Mounting frame)	<b>Weed brush</b> <b>for Vehicles from 80 HP (without tools)</b> <ul style="list-style-type: none"> <li>hydraulically driven</li> <li>without Brush plate</li> <li>suitable for 70 and 90 cm Brush plate</li> <li>adjustable swivel range</li> <li>3 levels swiveling</li> <li>2 levels mechanically swiveling</li> <li>1 level on hydraulic cylinders adjustable</li> <li>Height adjustable support wheel</li> <li>Side guard</li> </ul> <b>Mounting frame ABR-UB required</b>
<b>Mounting frame for Weed Brush</b> When ordering precise carrier vehicle types and Mounting type specify (See Data Sheet Page 68). Further Mounting frame on request	
<b>ABR-UB 7090-KD-...</b>	<b>Mounting frame Coupling triangle attachment</b>
<b>ABR-UB 7090-DP-...</b>	<b>Mounting frame Coupling triangle attachment Kat I and II</b>

<b>Options for Weed brush</b>	
<b>BT 070 FL</b>	<b>Brush plate 70 cm</b> <ul style="list-style-type: none"> <li>Bunch of flat / cored wire</li> </ul>
<b>BT 080 DS-KU</b>	<b>Brush plate 80 cm</b> <ul style="list-style-type: none"> <li>braids plastic covered</li> </ul>
<b>BT 090 DS-KU</b>	<b>Brush plate 90 cm</b> <ul style="list-style-type: none"> <li>25 braids plastic covered</li> </ul>
<b>BT 110 DS-KU</b>	<b>Brush plate 110 cm</b> <ul style="list-style-type: none"> <li>25 braids plastic covered</li> </ul>
<b>ST-UB 7090</b>	<b>Controller including additional hydraulic cylinder</b> <ul style="list-style-type: none"> <li>For easy operation of the UB</li> <li>Electro-valve block for control of hydraulic 3 cylinders</li> <li>Included Joy Stick control from the cab</li> </ul> <b>1 x Controller + 1 x Plug12 V required</b>
<b>ST-UB 7090-RC 7090</b>	<b>Controller including additional hydraulic cylinder</b> <b>ST-UB instead Joystick Radio Controlled</b> <ul style="list-style-type: none"> <li>Including radio remote control</li> </ul>
<b>HSZ-180 UB</b>	<b>Hydraulic Swivel</b> <ul style="list-style-type: none"> <li>for two-sided swiveling the machine</li> </ul>

## WE Weed remover for Tractor

Item No.	Description
<b>Weed remover mechanically driven</b>	
<b>WE 110 M-DP</b> working width 110 cm (without tools)	<b>Weed remover 110 cm working width</b> <ul style="list-style-type: none"> <li>mechanically via PTO</li> <li>for weed removal on water-bound surfaces</li> <li>Drive depth continuously over 2 with through spindles thrust bearing</li> <li>adjustable Impellers 180 x 80</li> <li>Depth adjustment read with setting scale</li> <li>individually adjustable Wheels for path profile</li> <li>vibration-free work by opposing Tools</li> <li>height-adjustable sides</li> <li>low-maintenance oil bath gearbox</li> <li>Mechanically shift by adjusting the linking points</li> <li>Breakaway device</li> <li>incl. PTO</li> <li>max. PTO input speed 1000 U / min</li> <li>suitable for rear mounted KAT 1N or KAT 1</li> </ul>
<b>WE 150 M-DP</b> working width 150 cm (without tools)	<b>Weed remover 150 cm working width</b> further Description see WE 110 M-DP

<b>Options for WE Weed remover</b>	
<b>WM-SATZ 110</b>	<b>Angle knife set</b> <ul style="list-style-type: none"> <li>for weed removal on water-bound surfaces</li> </ul>
<b>MEISSEL-SATZ 110</b>	<b>Chisel set with carbide insert as tools</b> <ul style="list-style-type: none"> <li>for weed removal on crushed stone types, water-bound surfaces</li> </ul>
<b>BUES-SATZ 110</b>	<b>Büschelsatz aus Flach- and Welldraht</b> <ul style="list-style-type: none"> <li>for weed removal on paved surfaces</li> </ul>
<b>WM-SATZ 150</b>	<b>Angle knife set</b> <ul style="list-style-type: none"> <li>for weed removal on water-bound surfaces</li> </ul>
<b>BUES-SATZ 150</b>	<b>Büschelsatz aus Flach- and Welldraht</b> <ul style="list-style-type: none"> <li>for weed removal on paved surfaces</li> </ul>
<b>MEISSEL-SATZ 150</b>	<b>Chisel set with carbide insert as tools</b> <ul style="list-style-type: none"> <li>for weed removal on crushed stone types, water-bound surfaces</li> </ul>
<b>GIWA-WE 150</b>	<b>Grid Roller</b> <ul style="list-style-type: none"> <li>is fitted between WE on base unit</li> </ul>
<b>RDS-WE 150</b>	<b>Wheel Set for WE 150 M-DP</b> <ul style="list-style-type: none"> <li>Frame carrier with 2 via thrust bearing adjustable wheel supports</li> <li>Wide impeller 180 x 80</li> </ul>



# Thermic Weed remover

Thermic Weed remover for Tractors  
Hand guided Weed remover







TWB 100



TWB 125



TWB WS 100

## Thermic Weed remover for Tractors

Item No.	Description
<b>TWB 100 ABR</b> (without Mounting frame) working width 100 cm	<b>Hoaf thermHIT 100 M</b> <ul style="list-style-type: none"> <li>• Ignition: Electric</li> <li>• Power: 110 kW - 5.000m<sup>2</sup> per Hour</li> <li>• Gas consumption: 8 kg / h</li> </ul> <b>Weight: 100 kg</b>
<b>TWB 125 ABR</b> (without Mounting frame) working width 125 cm	<b>Hoaf thermHIT 125 M</b> <ul style="list-style-type: none"> <li>• including 2 Impellers</li> <li>• Ignition: Electric</li> <li>• Power: 137 kW - 6.250 m<sup>2</sup> per Hour</li> <li>• Gas consumption: 13 kg/h</li> </ul> <b>Weight: 115 kg</b>
<b>TWB WS 100 ABR</b> (without Mounting frame) working width 100 cm	<b>Hoaf Weedstar 100</b> <ul style="list-style-type: none"> <li>• including 2 Impellers</li> <li>• Ignition: Electric</li> <li>• Power: 246 kW - 5.000 m<sup>2</sup> per Hour</li> <li>• Gas consumption: 18 kg /h</li> </ul> <b>Weight: 260 kg</b>
<b>TWB WS 50i ABR</b> (without Mounting frame) working width 2 x 50 cm	<b>Hoaf Weedstar 50i</b> <ul style="list-style-type: none"> <li>• electrically adjustable</li> <li>• Ignition: Electric</li> <li>• Power: 123 - 246 kW - 5500 m<sup>2</sup> per Hour</li> <li>• Gas consumption: 9- 18 kg /h</li> </ul> <b>Weight: 270 kg</b>
<b>TWB WA 100 ABR</b> (without Mounting frame) working width 100 cm	<b>HOAF WeedAIR</b> <ul style="list-style-type: none"> <li>• Ignition: Electric</li> <li>• Power: 55 kW- 1800 m<sup>2</sup> per Hour</li> <li>• Gas consumption: 3,5 kg /h</li> </ul> <b>Weight: 270 kg</b>

### Mounting frame (for all Types)

When ordering precise carrier vehicle type and Mounting type specify (see Data Sheet Page 68)  
Further Mounting frame on request.

Item No.	Description
ABR-TWB-KD-...	Mounting frame Coupling triangle attachment
ABR-TWB-DP-...	Mounting frame Coupling triangle attachment Kat I and II
ABR-TWB-FM-...	Mounting frame Area Mowers
ABR-TWB-Tele-...	Mounting frame Telescopic Forklift
<b>LPG Gas-Tanks (for alle Types)</b>	
TWB GT 120	LPG Gas-Tank 2 x 85 Liter in Coupling triangle with lighting and warning signs
TWB GT 240	LPG Gas-Tank 2 x 120 Liter in Coupling triangle with lighting and warning signs
<b>Options (for alle Types)</b>	
HSV-TWB	Hydraulic Side adjustment

## Hand guided thermic Weed remover

Item No.	Description
<b>TWB 15</b> working width 15 cm	<b>Hoaf thermHit 15</b> <ul style="list-style-type: none"> <li>• Ignition: Electric</li> <li>• inclusiv Gas regulator</li> <li>• Power 11 kW</li> <li>• Power per Hour 300 m2</li> <li>• Gas consumption 0,8-1,5 kg/Hour</li> </ul>
<b>TWB 25</b> working width 25 cm	<b>Hoaf thermHit 25</b> <ul style="list-style-type: none"> <li>• Zündung mechanisch Piezo</li> <li>• inclusiv Gas regulator</li> <li>• Power 20 kW</li> <li>• Power per Hour 500 m2</li> <li>• Gas consumption 1,1-2,1 kg/Hour</li> </ul>
<b>TWB 45 F</b> working width 45 cm	<b>Hoaf thermHit 45 with Fahrgestell</b> <ul style="list-style-type: none"> <li>• Ignition: Electric</li> <li>• inclusiv Gas regulator</li> <li>• Power 35 kW</li> <li>• Power per Hour 2250 m2</li> <li>• Gas consumption 1,4-2,8 kg/Hour</li> </ul>
<b>TWB 45 FD</b> working width 45 cm	<b>Hoaf thermHit 45 with Fahrgestell and Deflektorplatte</b> <ul style="list-style-type: none"> <li>• Zündung elektrisch Piezo</li> <li>• inclusiv Gas regulator</li> <li>• Power 35 kW</li> <li>• Power per Hour 2250 m2</li> <li>• Gas consumption 1,4-2,8 kg/Hour</li> </ul>
<b>TWB 75 F</b> working width 75 cm	<b>Hoaf thermHit 75 with Fahrgestell</b> <ul style="list-style-type: none"> <li>• Ignition: Electric</li> <li>• inclusiv Gas regulator</li> <li>• Power 85 kW</li> <li>• Power per Hour 3750 m2</li> <li>• Gas consumption 6 kg/Hour</li> </ul>
<b>TWB 75 FD</b> working width 75 cm	<b>Hoaf thermHit 75 with Fahrgestell and Deflektorplatte</b> <ul style="list-style-type: none"> <li>• Ignition: Electric</li> <li>• inclusiv Gas regulator</li> <li>• Power 85 kW</li> <li>• Power per Hour 3750 m2</li> <li>• Gas consumption 6 kg/Hour</li> </ul>
<b>TWB HW</b> working width 8 cm	<b>Hoaf Green Steam</b> <ul style="list-style-type: none"> <li>• Ignition: Electric</li> <li>• Power per Hour 120 m2</li> <li>• Gas consumption 0,6 kg/Hour</li> <li>• Water consumption 18 Ltr./Hour</li> </ul>

Options	
<b>RS-TWB</b>	<b>Backpack</b> suitable for TWB 15 and TWB 25
<b>FW-TWB</b>	<b>Bottle cart</b> suitable for TWB 15 and TWB 25
<b>TWB-GF 26</b>	<b>LPG Gas Bottle</b> suitable for TWB 75 <ul style="list-style-type: none"> <li>• Gas Bottle for 26 kg capacity</li> </ul>
<b>LR-TWB 45</b>	<b>Impeller</b> suitable for TWB 45
<b>LR-TWB 75</b>	<b>Impeller</b> suitable for TWB 75



TWB 75



TWB 45 with TWB 15



TWB 45



Impeller

# Leaf removing

Leaf blower/Leaf vacuumer  
Leaf loading devices  
Leaf loading trailer







## Leaf blower for Riding Mowers

Item No.	Description
<b>LBV-H0-FKDR</b>	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>• 9,6 kW (13 PS) Honda Engine</li> <li>• with Automatic oil cut-off</li> <li>• noise emission turbine</li> <li>• Aluminum impeller</li> <li>• Turbine housing PE plastic</li> <li>• Discharge direction right</li> <li>• Blowout reach about 8 Meter</li> <li>• 2 swiveling ball-bearing Wheels 180x85 mm</li> <li>• Parking supports for storage</li> </ul>
<b>Front coupling triangle</b> For inquiries and orders always exact type Riding Mower Note: Due to the new EN ISO 5395 for all the Riding Mower no longer available!	
<b>FKDR-HYDR-...</b>	<b>Front coupling triangle hydraulically</b> <ul style="list-style-type: none"> <li>• integrated hydraulic lift</li> <li>• hydraulic pivoting from the driver's seat</li> <li>• hydraulic reservoir with control valve (1 dw + 1 DA with floating position)</li> <li>• Speed selection for attachments</li> <li>• Incl. Mounting frame for the Riding Mower</li> </ul>

## Leaf blower for Tractors

Item No.	Description
<p>On the carrier vehicle, a control valve and free return in the tank is required.  The recommended flow rate is 40 L / min. at 140 bar pressure. Volume flow Please specify when ordering!</p>	
<b>LBV 3300 H-ABR</b> <b>hydraulically driven</b> <b>(without Mounting frame)</b>	<p><b>Leaf blower</b></p> <ul style="list-style-type: none"> <li>• hydraulically driven</li> <li>• noise emission turbine</li> <li>• Aluminum impeller</li> <li>• Turbine housing PE plastic (PE)</li> <li>• Blowout reach about 8 Meter</li> <li>• 2 Impellers 260 x 85 mm</li> <li>• Air output 60 m³/min</li> </ul> <p><b>ABR-LBV required</b></p>
<b>LBV 4300-H-ABR</b> <b>hydraulically driven</b> <b>(without Mounting frame)</b>	<p><b>Leaf blower</b></p> <ul style="list-style-type: none"> <li>• hydraulically driven</li> <li>• noise emission turbine</li> <li>• Aluminum impeller</li> <li>• Turbine housing PE plastic (PE)</li> <li>• Blowout reach about 8 Meter</li> <li>• 2 Impellers 260 x 85 mm</li> <li>• Air output 80 m³/min</li> </ul> <p><b>ABR-LBV required</b></p>
<b>LBV 3300-M-ABR</b> <b>mechanically driven</b> <b>(without Mounting frame)</b>	<p><b>Leaf blower</b></p> <ul style="list-style-type: none"> <li>• mechanically driven</li> <li>• noise emission turbine</li> <li>• Aluminum impeller</li> <li>• Turbine housing PE plastic (PE)</li> <li>• Blowout reach about 8 Meter</li> <li>• 2 Impellers 260 x 85 mm</li> <li>• incl. PTO</li> <li>• Air output 60 m³/min</li> </ul> <p><b>ABR-LBV required</b></p>
<b>LBV 4300-M-ABR</b> <b>mechanically driven</b> <b>(without Mounting frame)</b>	<p><b>Leaf blower</b></p> <ul style="list-style-type: none"> <li>• mechanically driven</li> <li>• noise emission turbine</li> <li>• Aluminum impeller</li> <li>• Turbine housing PE plastic (PE)</li> <li>• Blowout reach about 8 Meter</li> <li>• 2 Impellers 260 x 85 mm</li> <li>• incl. PTO</li> <li>• Air output 80 m³/min</li> </ul> <p><b>ABR-LBV required</b></p>
<p><b>Mounting frame for Leaf blower</b></p> <p>When ordering precise carrier vehicle type and Mounting type specify (see Data Sheet Page 68)</p>	
<b>ABR-LBV-KD-...</b>	<b>Mounting frame Coupling triangle attachment</b>
<b>ABR-LBV-DP-...</b>	<b>Mounting frame Coupling triangle attachment Kat I and II</b>
<b>ABR-LBV-FM-...</b>	<b>Mounting frame Area Mowers (2-Point)</b>

Options for Leaf blower LBV-M and LBV-H	
Item No.	Description
<b>LBV-HUT-HD-3300</b>	<p><b>Blow funnel</b></p> <ul style="list-style-type: none"> <li>• 360 ° adjustable on slewing ring</li> <li>• drive via a hydraulic motor</li> </ul> <p><b>1 control unit dw required</b></p>
<b>LBV-HUT-HD-4300</b>	<p><b>Blow funnel</b></p> <ul style="list-style-type: none"> <li>• 360 ° adjustable on slewing ring</li> <li>• drive via a hydraulic motor</li> </ul> <p><b>1 control unit dw required</b></p>





LBG B10



LBG B20



LBG B20

## Votex Leaf blower for Tractors

Item No.	Description
<b>LBG B10 M-DP with PTO drive</b>	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>• Mechanically drive via PTO</li> <li>• suitable for KAT 1 and KAT 1N</li> <li>• Air output to 80 m<sup>3</sup>/min</li> <li>• mechanically vertically adjustable Air flap</li> <li>• incl. PTO with freewheel</li> <li>• Transport width 85 cm</li> <li>• Weight 48 kg</li> <li>• Length 48 cm</li> <li>• Height 85 cm</li> </ul> <b>PTO speed 540 U / min power requirement min. 10 HP</b>
<b>LBG B20 H hydraulically driven</b>	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>• Drive hydraulic via Orbitalomotor</li> <li>• Construction set on mounting base</li> <li>• Air output to 120 m<sup>3</sup>/min</li> <li>• mechanically vertically adjustable Air flap</li> <li>• Transport width 65 cm</li> <li>• Weight 72 kg</li> <li>• Length 74 cm</li> <li>• Height 70 cm</li> <li>• without Attachments / without hoses</li> </ul> <b>Recommended flow rate 40 L / min. at 180 bar</b>
<b>LBG B20 M-DP-HZW 540 with PTO drive</b>	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>• Mechanically drive via PTO</li> <li>• suitable for KAT 1, KAT 1N and KAT 2</li> <li>• Air output to 120 m<sup>3</sup>/min</li> <li>• with Standard blowpipe</li> <li>• incl. PTO with freewheel</li> <li>• Transport width 95 cm</li> <li>• Weight 98 kg</li> <li>• Length 70 cm</li> <li>• Height 83 cm</li> </ul> <b>Three-point PTO speed 540 U / min Power requirement 20 HP</b>
<b>LBG B20 M-DP-HZW 1000 with PTO drive</b>	<b>Leaf blower (see above)</b> <ul style="list-style-type: none"> <li>• but for PTO speed 1000 U / min</li> </ul>

### Options for Votex Leaf blower LBG B20 M-DP-HZW 540 / 1000

Item No.	Description
<b>ABR 125850 PTO</b>	<b>Blow pipe 125 ° sheet steel</b>
<b>ABR 180850</b>	<b>Blow pipe 180 ° sheet steel</b> <ul style="list-style-type: none"> <li>• hydraulic justable</li> </ul> <b>1 control unit dw required</b>
<b>RD 11 x 7</b>	<b>Pendulum Wheels with wide tires 11 x 7 4PR</b>

## Votex Leaf blower for Tractors

Item No.	Description
<b>LBG B40 M-DP with PTO drive</b>	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>• Mechanically drive via PTO</li> <li>• suitable for KAT 1, KAT 1N and KAT 2</li> <li>• Air output to 240 m<sup>3</sup>/min</li> <li>• with mechanically adjustable Air flap</li> <li>• Pendulum Wheels with wide tires 11 x 7 4PR</li> <li>• incl. PTO with freewheel</li> <li>• Transport width 130 cm</li> <li>• Weight 250 kg</li> </ul> <b>Rear mounted three-point PTO speed 540 U / min or 1000 U / min power requirement min. 40 HP required.</b> <b>When ordering precise PTO speed and specify PTO rotation.</b>
<b>LBG B60 M-DP with PTO drive</b>	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>• Drive mechanically via PTO</li> <li>• suitable for KAT 1, KAT 1N and KAT 2</li> <li>• Air output to 330 m<sup>3</sup>/min</li> <li>• with mechanically adjustable Air flap</li> <li>• Pendulum Wheels with wide tires 11 x 7 4PR</li> <li>• incl. PTO with freewheel</li> <li>• Transport width 130 cm</li> <li>• Weight 250 kg</li> </ul> <b>Rear mounted three-point PTO speed 540 U / min or 1000 U / min power requirement min. 55 HP required.</b> <b>When ordering precise PTO speed and specify PTO rotation.</b>

### Options for Votex Leaf blower LBG B40 and B60

Item No.	Description
<b>LKH 2051</b>	<b>height-adjustable Air flap</b> <ul style="list-style-type: none"> <li>• hydraulic adjustable</li> </ul> <b>1 control unit dw required</b>
<b>ABR 1802051 M</b>	<b>Blow pipe 180 ° sheet steel</b> <ul style="list-style-type: none"> <li>• hydraulic justable</li> <li>• manually adjustable Air flap</li> </ul>
<b>ABR 1802051 E</b>	<b>Blow pipe 180 ° sheet steel</b> <ul style="list-style-type: none"> <li>• hydraulic justable</li> <li>• electrically adjustable Air flap</li> </ul> <b>1 contol unit dw required</b>

All three-point versions are also available as a coupling triangle surcharge. Price on request.



LBG B40



LBG B20



LBG B60



LVG 546



LVG 521



LVG 570



LVG 570



LVG 525

## Vortex motor-driven Leaf loading devices

### Vortex Leaf loading device for sidewall-mounting

Item No.	Description
<b>LVG 521 TL</b> 13 HP Petrol engine	<b>Leaf loading device</b> <ul style="list-style-type: none"> <li>for sidewall-mounted to 60 mm thickness</li> <li>9,6 kW (13 HP) Honda Industrial Engine</li> <li>Air output to 85 m<sup>3</sup>/min</li> <li>3,3 m special hose 200 mm Diameter</li> <li>fix discharge arc</li> <li>volume level appx. 89 dBA</li> <li>Transport width 120 cm</li> <li>Weight 145 kg</li> </ul>

### Options for Vortex Leaf loading device LVG 521 TL

Item No.	Description
TRST 521	<b>Equipment stands for suction hose</b>
AWV 521	<b>Ejection pipe extension 150 mm</b>
SGS-VL 521 MP	<b>Ejection pipe extension</b> <ul style="list-style-type: none"> <li>5 m instead of 3,3 m</li> </ul>
BL-SG	<b>Balancer</b> <ul style="list-style-type: none"> <li>for granting discharge to the suction hose 2-4 kg</li> </ul>

### Leaf loading device for self-attachment

Item No.	Description
<b>LVG 541 SA</b> 20 HP Petrol engine	<b>Leaf loading device</b> <ul style="list-style-type: none"> <li>body console for self-attachment</li> <li>14,7 kW (20 HP) Honda Industrial Engine</li> <li>Air output to 140 m<sup>3</sup>/min</li> <li>3,3 m special hose 200 mm Diameter</li> <li>Plastic nozzle with adjustable handle</li> <li>fix discharge arc</li> <li>Volume level appx. 110 dBA</li> <li>Transport width 135 cm</li> <li>Weight 250 kg</li> </ul>

### Options for Vortex Leaf loading device LVG 541 SA

Item No.	Description
AWV 541	<b>Ejection pipe extension 200 mm</b>
SGS-VL 541 MP	<b>Suction hose</b> <ul style="list-style-type: none"> <li>5 m instead of 3,3 m</li> </ul>
BL-SG	<b>Balancer</b> <ul style="list-style-type: none"> <li>for granting discharge to the suction hose 2-4 kg</li> </ul>

## Votex motor-driven Leaf loading devices

Leaf loading devices on one-axle mounted lafette	
Item No.	Description
<b>LVG 525 TL</b> 13 HP Petrol engine	<b>Leaf loading device</b> <ul style="list-style-type: none"> <li>One-axle mounted lafette</li> <li>9,6 kW (13 HP) Honda Industrial Engine</li> <li>Air output to 140 m³/min</li> <li>5 m special hose 200 mm Diameter</li> <li>Plastic nozzle with adjustable handle</li> <li>swivel discharge chute</li> <li>Transport holder for suction hose</li> <li>adjustable drawbar with ball coupling</li> <li>Tyres 185 R 13</li> <li>Transport width 185 cm</li> <li>Weight 420 kg</li> <li>incl. TÜV-certificate</li> </ul>
<b>LVG 546 A</b> 20 HP Petrol engine	<b>Leaf loading device</b> <ul style="list-style-type: none"> <li>same as LVG 525 TL but with</li> <li>14,7 kW (20 HP) Honda Industrial Engine</li> </ul>
Options for Votex Leaf loading device LVG 525 TL/LVG 546 A	
<b>AWV 546</b>	<b>Ejection pipe extension</b>
<b>BL-SG</b>	<b>Balancer</b> <ul style="list-style-type: none"> <li>for granting discharge to the suction hose 2-4 kg</li> </ul>
<b>DIN-ZG-MP</b>	<b>DIN pulling eye</b> <ul style="list-style-type: none"> <li>instead of ball coupling</li> </ul>

PTO Leaf loading devices	
Item No.	Description
<b>LVG 570 M-DP</b> PTO drive	<b>Leaf loading device strong Version</b> <ul style="list-style-type: none"> <li>Drive mechanically via PTO</li> <li>suitable for KAT 1 and KAT 2</li> <li>Air output to 240 m³/min</li> <li>rotatable blow pipe with baffle</li> <li>3,3 m special hose 300 mm Diameter</li> <li>Plastic nozzle with adjustable handle</li> <li>incl. PTO with freewheel</li> <li>Transport width 90 cm</li> <li>Weight 325 kg</li> </ul> <b>Rear mounted three-point: Power requirement min. 41 HP</b>
Options for LVG 570 KAT 1/2	
<b>AWV 570</b>	<b>Ejection pipe extension</b>
<b>BL-SG</b>	<b>Balancer</b> <ul style="list-style-type: none"> <li>for granting discharge to the suction hose 2-4 kg</li> </ul>
<b>SGS-VL 570 MP</b>	<b>Suction hose</b> <ul style="list-style-type: none"> <li>5 m instead of 3,3 m / 300 mm Diameter</li> </ul>

Leaf Vacuum Trailers	
Item No.	Description
<b>LVG 521 TL-construction</b> 13 HP Petrol engine	<b>Tower for Vacuum Trailer</b> <b>Leaf extractor unit attach to any Trailers</b> <ul style="list-style-type: none"> <li>Honda Engine 13 HP</li> <li>Suction hose 5 Meter</li> <li>incl. Attachments part</li> <li>incl. Covering net</li> <li>incl. Balancer</li> </ul>
<b>LSA-VT 450 S</b> 13 HP Petrol engine	<b>Leaf Vacuum Trailer</b> <b>Multifunction trailer with suction unit</b> <ul style="list-style-type: none"> <li>Content 4 m³</li> <li>Honda Engine 13 HP</li> <li>Suction hose 5 Meter</li> <li>incl. Balancer</li> <li>Tilting direction to 3 sides electrohydraulics operated</li> <li>Trailer braked</li> <li>Lighting according to legal regulations</li> </ul>

Further Leaf Vacuum Trailers fom 4-11 m3 Content on request.



VT 850



LVG 521



VT 1100



VT 420



VT 850

# Lawn Roller

Diameter 480 mm  
working widths 50/80/100 cm



## Lawn Roller

Item No.	Description
RW050	<b>Lawn Roller Diameter 480 mm working width 50 cm</b> <ul style="list-style-type: none"> <li>• With scraper</li> <li>• Pulling Device can be unscrewed</li> <li>• With filling connection for water, about 100 liters to increased weight.</li> <li>• Roller Powder coated RAL 6016, Handle RAL 3020</li> </ul>
RW080	<b>Lawn Roller Diameter 480 mm working width 80 cm</b> <ul style="list-style-type: none"> <li>• With scraper</li> <li>• Pulling Device can be unscrewed</li> <li>• With filling connection for water, about 160 liters to increased weight.</li> <li>• Roller Powder coated RAL 6016, Handle RAL 3020</li> </ul>
RW100	<b>Lawn Roller Diameter 480 mm working width 100 cm</b> <ul style="list-style-type: none"> <li>• With scraper</li> <li>• Pulling Device can be unscrewed</li> <li>• With filling connection for water, about 200 liters to increased weight.</li> <li>• Roller Powder coated RAL 6016, Handle RAL 3020</li> </ul>
<b>Set with Sales Rack</b>	
RW-SET	<b>Complete Sales Racks consisting of:</b> <ul style="list-style-type: none"> <li>• 1 piece Lawn Roller RW 50</li> <li>• 1 piece Lawn Roller RW 80</li> <li>• 1 piece Lawn Roller RW 100</li> <li>• 1 sales stand</li> </ul>

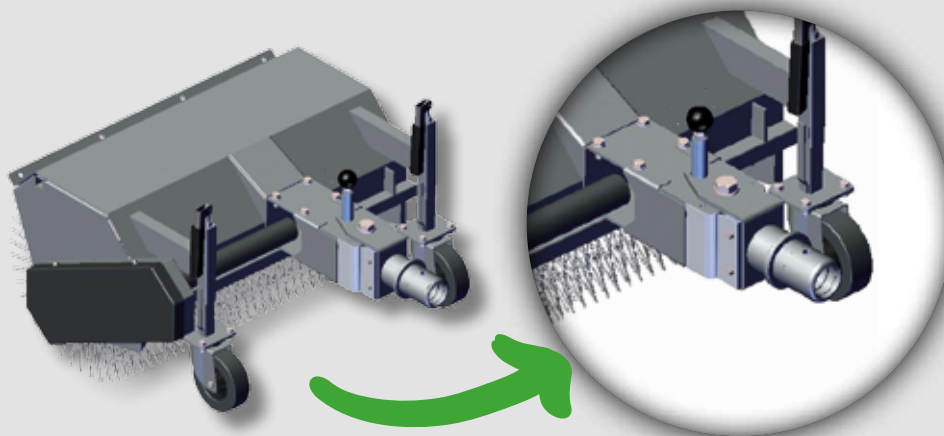
Accessories for Lawn Roller	
Item No.	Description
TRW 050	<b>Set Transport Wheels for Roller 50 cm</b>
TRW 080	<b>Set Transport Wheels for Roller 80 cm</b>
TRW 100	<b>Set Transport Wheels for Roller 100 cm</b>
ZUG-AUFS	<b>Pulling device for Riding Mower</b>



# Mounted Machines for single-axle tractors (Others)

We produce tailor-made adapters for all common single-axle models, which allow some of our Sweepers, Weed brushes, Snow Blades and Leaf blowers with these devices.

Kersten attachments are one of the most successful products on the market thanks to their high quality and flexible application possibilities. Through the use of coupling flange and front couplings, our attachments fit a variety of different single-axle tractors.



Item No.	Description
ABF-KM ...	Mounting flange for Sweeper
ABF-SCHN ...	Mounting flange for Snow blade
ABF-WKB ...	Mounting flange for Weed brush
ABF-LBV ...	Mounting flange for Leaf blower

## Sweeper

Item No.	Description
<b>KM 09032 M-ABF</b> working width 90 cm	<b>Sweeper 90 cm working width</b> Diameter 32 cm <ul style="list-style-type: none"> <li>mechanically driven</li> <li>incl. combined sweeper, dirt- or snow sweeper</li> <li>mechanical left and right swivel</li> <li>oscillating suspension</li> <li>2 height adjustable Wheels 135 x 40 mm</li> </ul>
<b>KM 10037 M-ABF</b> working width 100 cm	<b>Sweeper 100 cm working width</b> Diameter 37 cm further Description see KM 09032 M-ABF
<b>KM 11545 M-ABF</b> working width 115 cm	<b>Sweeper 115 cm working width</b> Diameter 45 cm further Description see KM 09032 M-ABF
<b>KM 12545 M-ABF</b> working width 125 cm	<b>Sweeper 125 cm working width</b> Diameter 45 cm further Description see KM 09032 M-ABF
<b>KM 13045 M-ABF</b> working width 130 cm	<b>Sweeper 130 cm working width</b> Diameter 45 cm further Description see KM 09032 M-ABF



## Snow blade

Item No.	Description
<b>SCHN 11045 FK-ABF</b> working width 110 cm	<b>Snow blade 110 cm working width</b> <ul style="list-style-type: none"> <li>45 cm height</li> <li>spring flaps</li> <li>2 retracting springs</li> <li>adjustable Ground skids</li> <li>adjustable ROBA-Scraper</li> </ul>
<b>SCHN 12545 FK-ABF</b> working width 125 cm	<b>Snow blade 125 cm working width</b> further Description see SCHN 11045 FK-ABF



## Weed brush

Item No.	Description
<b>WKB 60 M-ABF</b>	<b>Weed brush 60 cm Brush Diameter</b> <ul style="list-style-type: none"> <li>mechanically driven</li> <li>without tools</li> <li>2 levels adjustable</li> <li>Height adjustable Splash guard</li> <li>Height adjustable support wheel</li> </ul>



## Leaf blower

Item No.	Description
<b>LBV 3300-M-ABF</b> mechanically driven (without Mounting frame)	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>mechanically driven</li> <li>noise emission turbine</li> <li>Aluminum impeller</li> <li>Turbine housing PE plastic (PE)</li> <li>Blowout reach about 8 Meter</li> <li>2 Impellers 260 x 85 mm</li> <li>incl. PTO</li> <li>Air output 60 m³/min</li> </ul> <b>ABR-LBV required</b>
<b>LBV 4300-M-ABF</b> mechanically driven (without Mounting frame)	<b>Leaf blower</b> <ul style="list-style-type: none"> <li>mechanically driven</li> <li>noise emission turbine</li> <li>Aluminum impeller</li> <li>Turbine housing PE plastic (PE)</li> <li>Blowout reach about 12 Meter</li> <li>2 Impellers 260 x 85 mm</li> <li>incl. PTO</li> <li>Air output 80 m³/min</li> </ul> <b>ABR-LBV required</b>



# Data Sheet for connection

Order-No. \_\_\_\_\_

Tractor Type \_\_\_\_\_

Mounted machine \_\_\_\_\_ Type \_\_\_\_\_

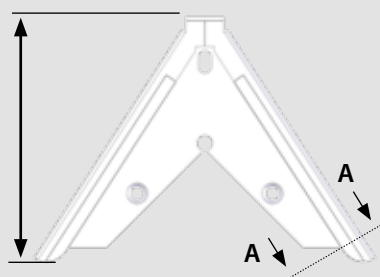
☐ Front ☐ Rear Colour \_\_\_\_\_

## ☐ Hitching Triangle

Type

- ☐ Communal  
☐ Kat 0  
☐ Kat 1

- ☐ Communal: 330 mm  
☐ Kat 0: 448 mm  
☐ Kat 1: 598 mm



## External dimension

- ☐ Communal: 52 mm  
☐ Kat 0: 80 mm  
☐ Kat 1: 80 mm

## Internal dimension

- ☐ Communal: 40 mm  
☐ Kat 0: 60 mm  
☐ Kat 1: 50 mm

## ☐ Coupling triangle attachment / 2-point linkage



Type

- ☐ Kat 0  
☐ Kat 1  
☐ Kat 1N  
☐ Kat 2  
☐ Kat 3  
☐ Others \_\_\_\_\_

Lifting arm

- ☐ Variabele  
☐ Fixed  
☐ Measure between the fixed arms \_\_\_\_\_ mm

Lower link / catch hook

- ☐  \_\_\_\_\_ mm  
☐  \_\_\_\_\_ mm  
☐ \_\_\_\_\_ mm

## ☐ PTO

PTO rotation speed

- ☐ 540  
☐ 1000  
☐ 2000  
☐ 2250  
☐ 2500  
☐ \_\_\_\_\_

Direction of rotation (In Overhead View)

- ☐ Right  
☐ Left

Profile

- ☐ 1"  
☐ 1 3/8"  
☐ \_\_\_\_\_

Cogs

- ☐ 6  
☐ 10  
☐ 14  
☐ 15  
☐ 21  
☐ \_\_\_\_\_

## ☐ Hydraulic

Hydraulic connections / plug type

Liter output \_\_\_\_\_

Pressure \_\_\_\_\_

Connections position \_\_\_\_\_

**Note:** Orders can only be processed when returning the completed Data Sheet!  
(Further Datasheets at the factory available)

Name (in Letters) \_\_\_\_\_ Date \_\_\_\_\_ Signature \_\_\_\_\_

## **FIELD TRIAL CONDITIONS**

Field trial orders are delivered and invoiced as firm orders. Deliveries to field test conditions are agreed, if the delivery is confirmed by the plant to field test conditions.

The field trial is as soon as possible to perform. The sample application is to do in one day. The supplier is entitled to carry out the field trial by an agent or to be monitored.

Does the machine to be expected under normal weather and operating conditions work and results, the field test has been passed.

The field test is failed if the representative of the supplier determines that the machine the assured work can not be achieved.

The return is promptly and in a clean condition, after Agreement with the supplier at the expense of the recipient to the supplier or other location indicated by address delivery mechanism to make.

**Kersten Arealmaschinen GmbH**

# Allgemeine Geschäftsbedingungen

for die Lieferung von neuen Motorgeräten an gewerbliche Kunden (Lieferbedingungen) Stand: August 2016

## I. Allgemeines

1. Die nachstehenden Bedingungen gelten for alle unsere Lieferungen im Geschäft with dem Besteller. Die Bedingungen gelten ausschließlich. Entgegenstehende or von diesen Bedingungen abweichende Bedingungen des Kunden erkennen wir nicht an, es sei denn, wir haben ausdrücklich and schriftlich ihrer Geltung zugestimmt. Wir erkennen abweichende Bedingungen auch dann nicht an, wenn wir in Kenntnis entgegenstehender or von unseren Bedingungen abweichender Bedingungen des Bestellers den Auftrag vorbehaltlos ausführen. Mündliche Erklärungen unserer Vertreter or Angestellten bedürfen unserer schriftlichen Bestätigung.

## II. Angebot and Lieferumfang

1. Angebote des Verkäufers sind stets freibleibend. Die zu dem Angebot gehörenden Unterlagen wie Abbildungen, Zeichnungen, Weights- and Maßangaben sind nur annähernd maßgebend, soweit sie nicht ausdrücklich als verbindlich bezeichnet sind. Die Änderungen sind unangemessen and vom Käufer nicht mehr zu akzeptieren, sofern sie über das handelsübliche Maß hinausgehen. Poweren and Betriebskosten werden als Durchschnittswerte angegeben. An Kostenvorschlägen, Zeichnungen and anderen Unterlagen behält sich der Verkäufer Eigentums- and Urheberrechte vor, sie dürfen Dritten nicht zugänglich gemacht werden.
2. Der Käufer ist an die Bestellung höchstens bis 4 Wochen gebunden. Der Kaufvertrag ist abgeschlossen, wenn der Verkäufer die Annahme der Bestellung des näher bezeichneten Kaufgegenstandes innerhalb dieser Frist schriftlich bestätigt hat or die Lieferung ausgeführt ist. Der Verkäufer ist jedoch verpflichtet, eine etwaige Ablehnung der Bestellung unverzüglich schriftlich mitzuteilen.
3. Sämtliche zwischen Verkäufer and Käufer getroffenen Vereinbarungen sind in dem jeweiligen Liefervertrag schriftlich niederzulegen. Dies gilt auch for Nebenabreden, Zusicherungen and nachträgliche Vertragsänderungen.
4. Konstruktions- and Formänderungen des Liefergegenstandes bleiben vorbehalten, soweit der Liefergegenstand nicht erheblich geändert und die Änderungen dem Käufer zumutbar sind.
5. Angaben in dem Käufer ausgehändigten Descriptionen über Lieferumfang, Aussehen, Poweren Maße and Weichte, sind Vertragsinhalt. Sie dienen als Maßstab zur Feststellung, ob der Kaufgegenstand fehlerfrei ist.

## III. Preis and Zahlung

1. Es gelten die jeweils zum Zeitpunkt der Lieferungen gültigen Listenpreise. Die bei Auftragsabschluss genannten Preise sind daher nur vorläufig. Die Preise verstehen sich from Auslieferungslager and beinhalten weder Umsatzsteuer, noch Fracht, Verpackung and Versicherung. Es gilt unsere Versandkostenregelung in der jeweils gültigen Form. Bei sämtlichen Bruttopreisen handelt es sich um unverbindlich empfohlene Preise. Bei Reparaturrechnungen and Bestellungen unter 50,00 Euro wird kein Rabatt gewährt. Reparaturrechnungen sind bei Erhalt rein netto sofort zahlbar.
2. Unsere Rechnungen werden with dem Zugang fällig. Rechnungen for Lieferungen sind zahlbar rein netto 30 Tage nach Zugang der Rechnung or innerhalb 10 Tagen from Rechnungsdatum with 2% Skonto, Zahlungen werden stets auf die älteste fällige Rechnung verrechnet.
3. Wird das Zahlungsziel überschritten, haben wir das Recht, from diesem Zeitpunkt auch ohne Mahnung Zinsen in Höhe des gesetzlichen Zinssatzes zu berechnen. Dieser Zinssatz ist höher anzusetzen, wenn wir eine Belastung with einem höheren Zinssatz nachweisen.
4. Wir behalten uns vor, Aufträge im Wert von weniger als 50,00 Euro sowie Aufträge von uns unbekannten Kunden per Nachnahme or Vorkasse abzuwickeln.
5. Tritt nach Auftragserteilung eine wesentliche Verschlechterung der Vermögensverhältnisse des Bestellers ein or wird uns eine vorher eingetretene Verschlechterung der Vermögensverhältnisse erst nach Auftragserteilung bekannt so sind wir berechtigt, nach eigener Wahl entweder Vorauszahlung or SicherheitsPower zu fordern.
6. Wechselzahlungen bedürfen der vorherigen Vereinbarung. Ein Skontoabzug for Zahlungen mittels Wechsel wird nicht gewährt.
7. Zahlungen dürfen nur an uns selbst or an ausdrücklich schriftlich or durch Inkassovollmacht legitimierte Personen geleistet werden.
8. Der Besteller kann nur with solchen Forderungen aufrechnen, die unbestritten or rechtskräftig festgestellt sind.

## IV. Lieferfristen and Verzug

1. Lieferfristen and -termine sind nur dann verbindlich vereinbart, wenn sie vom Verkäufer ausdrücklich so bezeichnet worden sind. Die Lieferfrist beginnt with Zustandekommen des Vertrages, jedoch nicht vor der Beibringung etwaiger vom Käufer zu beschaffenden Unterlagen, Genehmigungen, Freigaben sowie vor Eingang einer vereinbarten Anzahlung.
2. Richtige and rechtzeitige Selbstbelieferung ist vorbehalten.
3. Die Lieferfrist verlängert sich angemessen bei Maßnahmen im Rahmen rechtmäßiger Arbeitskämpfe, insbesondere Streiks and Aussperrung sowie beim Eintritt unvorhergesehener Hindernisse, welche außerhalb des Willens des Verkäufers or seiner Erfüllungsgehilfen liegen, soweit solche Hindernisse nachweislich auf die Lieferung des verkauften Gegenstandes von Einfluss sind.
4. Entsprechendes gilt, wenn der Verkäufer seinerseits nicht rechtzeitig beliefert wird. Der Verkäufer ist zum Rücktritt berechtigt, wenn der Hersteller ihn nicht beliefert. Dies gilt jedoch nicht, wenn die Nichtlieferung vom Verkäufer zu vertreten ist (z. B. Zahlungsverzug).
5. Die Einhaltung der Lieferfrist setzt die Erfüllung der Vertragspflichten des Käufers voraus.
6. Wenn dem Käufer wegen einer Verzögerung Schaden erwächst, so ist der Verkäufer aus den gesetzlichen Bestimmungen haftbar.
7. Für durch Verschulden seines Vorlieferanten verzögerte or unterbliebene (Unmöglichkeit) Lieferungen hat der Verkäufer - ausgenommen Auswahl- or Überwachungsverschulden - nicht einzustehen. Satz 1 gilt nicht, falls sich das Verhältnis zwischen Verkäufer and Käufer nach Werkvertragsrecht bestimmt. In jedem Fall ist der Verkäufer verpflichtet, den Käufer schadlos zu halten, sofern dieser die ihm abgetretenen Ansprüche gegenüber dem Zulieferer nicht vollständig durchsetzen kann.
8. Der Verkäufer kann neben der gesetzlichen Frist des § 286 Abs. 3 BGB and der Mahnung den Käufer auch durch ein nach dem Kalender bestimmtes Zahlungsziel im Sinne des § 286 Abs. 2 BGB in Verzug setzen.

## V. Gefahrenübergang and Transport

1. Versandweg and -mittel sind mangels besonderer Vereinbarung der Wahl des Verkäufers überlassen. Die Ware wird auf Wunsch and Kosten des Käufers versichert.
2. Der Versand erfolgt stets for Rechnung and Gefahr des Bestellers, for die Gefahr gilt dies auch dann, wenn die Firma Kersten Arealmaschinen GmbH, die Kosten des Transports übernimmt. Sofern nicht anderes vereinbart ist, bestimmen wir Transportmittel and Transportweg, ohne dafür verantwortlich zu sein, dass die schnellste and billigste Möglichkeit gewählt wird.
3. Verzögert sich der Versand infolge von Umständen, die der Käufer zu vertreten hat, so geht die Gefahr vom Tage der Versandbereitschaft from auf den Käufer über. Jedoch ist der Verkäufer verpflichtet, auf Wunsch and Kosten des Käufers die Versicherungen zu bewirken, die dieser verlangt.
4. Angelieferte Gegenstände sind, auch wenn sie unwesentliche Mängel aufweisen, vom Käufer unbeschadet der Rechte aus Abschnitt VII (Mängelrüge and Haftung for Mängel) entgegenzunehmen.
5. Teillieferungen sind zulässig, soweit dies dem Käufer zumutbar ist.

## VI. Eigentumsvorbehalt

1. Der Verkäufer behält sich das Eigentumsrecht bis zur völligen Bezahlung aller Forderungen aus der Geschäftsvereinbarung with dem Käufer vor.
2. Der Käufer ist verpflichtet, den Kaufgegenstand pfleglich zu behandeln and diesen auf eigene Gefahr gegen Feuer-, Wasser- and Diebstahlschäden ausreichend zum Neuwert zu versichern. Die Versicherung ist auf Verlangen nachzuweisen; andernfalls ist der Verkäufer berechtigt, diese auf Kosten des Käufers selbst abzuschließen. Der Käufer verpflichtet sich, etwaige Entschädigungsansprüche an den Verkäufer abzutreten.
3. Der Käufer darf den Kaufgegenstand ohne die Zustimmung des Verkäufers nicht verpfänden noch zur Sicherheit übereignen. Der Käufer ist verpflichtet, den Verkäufer bei Pfändungen or sonstigen Eingriffen Dritter unverzüglich schriftlich zu benachrichtigen, damit der Verkäufer Klage gemäß § 771 ZPO erheben kann. Soweit der Dritte nicht in der Lage ist, dem Verkäufer die gerichtlichen and außergerichtlichen Kosten einer Klage nach § 771 ZPO zu erstatten, ist der Käufer zum Ausgleich der Kosten verpflichtet.
4. Der Käufer ist berechtigt, die Ware im ordnungsgemäßen Geschäftsgang weiter zu verkaufen. Er tritt dem Verkäufer aber bereits jetzt alle Forderungen in Höhe des Faktura-Endbetrages (einschl. MwSt.) des Verkäufers from, die ihm aus der Weiterveräußerung gegen seine Abnehmer or Dritte erwachsen, and zwar unabhängig davon, ob der Kaufgegenstand ohne or nach Verarbeitung weiterverkauft worden ist. Zur Einziehung dieser

Forderungen ist der Käufer auch nach Abtretung ermächtigt. Die Befugnis des Verkäufers, die Forderungen selbst einzuziehen, bleibt hiervon unberührt, jedoch verpflichtet sich der Verkäufer, die Forderungen nicht einzuziehen, solange der Käufer seinen Zahlungsverpflichtungen ordnungsgemäß nachkommt. Andernfalls kann der Verkäufer verlangen, dass der Käufer ihm die abgetretenen Forderungen und deren Schuldner bekannt gibt, alle zum Einzug erforderlichen Angaben macht, die dazugehörigen Unterlagen aushändigt und den Schuldner die Abtretung mitteilt.

5. Bei vertragswidrigem Verhalten des Käufers, insbesondere bei Zahlungsverzug, ist der Verkäufer zur Rücknahme der Ware nach Mahnung berechtigt und der Käufer zur Herausgabe verpflichtet. In der Zurücknahme sowie in der Pfändung des Gegenstandes durch den Verkäufer liegt ein Rücktritt vom Vertrag nur dann vor, wenn dies der Verkäufer ausdrücklich schriftlich erklärt.

6. Sämtliche Kosten der Rücknahme und der Verwertung des Kaufgegenstandes trägt der Käufer. Die Verwertungskosten betragen ohne Nachweis 10 % des Verwertungserlöses einschließlich Umsatzsteuer. Sie sind höher oder niedriger anzusetzen, wenn der Verkäufer höhere oder der Käufer niedrigere Kosten nachweist. Der Erlös wird dem Käufer nach Abzug der Kosten und sonstiger mit dem Kaufvertrag zusammenhängender Forderungen des Verkäufers gutgebracht.

7. Eine Verarbeitung oder Umbildung der Vorbehaltsware durch den Käufer wird in jedem Falle für den Verkäufer vorgenommen. Sofern die Vorbehaltsware mit anderen, dem Verkäufer nicht gehörenden Sachen verarbeitet wird, erwirbt der Verkäufer Miteigentum an der neuen Sache im Verhältnis des Wertes der Vorbehaltsware (Aufrechnungsbetrag incl. MwSt.) zu den anderen verarbeiteten Sachen im Zeitpunkt der Verarbeitung. Für die Verarbeitung entstehende neue Sache gilt das gleiche, wie für die Vorbehaltsware. Im Falle der untrennbaren Vermischung der Vorbehaltsware mit anderen, dem Verkäufer nicht gehörenden Sache im Verhältnis des Wertes der Vorbehaltsware (Rechnungsbetrag incl. MwSt.) zu den anderen vermischten Sachen im Zeitpunkt der Vermischung. Ist die Sache des Käufers infolge der Vermischung als Hauptsache anzusehen, sind der Käufer und Verkäufer sich einig, dass der Käufer dem Verkäufer anteilmäßig Miteigentum an der Sache überträgt; die Übertragung nimmt der Verkäufer hiermit an. Das dem Verkäufer so entstandene Allein- oder Miteigentum an der Sache verwahrt der Käufer für den Verkäufer.

## VII. Mängelrüge und Haftung für Mängel

1. Für Mängel haftet der Verkäufer nur wie folgt:

- a) Der Käufer hat die empfangene Ware unverzüglich nach Eintreffen auf Menge, Beschaffenheit und zugesicherte Eigenschaften zu untersuchen. Offensichtliche Mängel hat er unverzüglich, spätestens binnen 5 Tagen durch schriftliche Anzeige an den Verkäufer zu rügen. Ist der Vertrag für beide Teile ein Handelsgeschäft, so gilt § 377 HGB mit der Maßgabe, dass erkennbare Mängel binnen 5 Tagen durch schriftliche Anzeige an den Verkäufer zu rügen sind.
- b) Alle diejenigen Teile sind unentgeltlich, nach billigem Ermessen unterliegender Wahl des Verkäufers auszubessern oder neu zu liefern, die sich infolge eines vor dem Gefahrenübergang liegenden Umstandes - insbesondere wegen fehlerhafter Bauart, schlechter Baustoffe oder mangelhafter Ausführung - als unbrauchbar oder in ihrer Brauchbarkeit nicht unerheblich beeinträchtigt herausstellen. Ersetzte Teile werden Eigentum des Verkäufers. Die Haftung des Verkäufers endet mit Ablauf eines Jahres nach Gefahrübergang. Bei Austausch der gesamten Kaufsache im Wege der Nacherfüllung hat der Verkäufer für die zurückgenommene Sache gegen den Käufer einen Anspruch auf uneingeschränkte Nutzungsentschädigung.
- c) Das Recht des Käufers, Ansprüche aus Mängeln geltend zu machen, verjährt in allen Fällen vom Zeitpunkt der rechtzeitigen Rüge an in 12 Monaten.
- d) Es wird keine Gewähr übernommen für Schäden, die aus nachfolgenden Gründen entstanden sind: Ungeeignete oder unsachgemäße Verwendung, fehlerhafte Montage bzw. Inbetriebsetzung durch den Käufer oder Dritte, normale Abnutzung - insbesondere von Verschleißteilen -, fehlerhafte oder nachlässige Behandlung, ungeeignete Betriebsmittel, Austauschwerkstoffe, mangelhafte Bauarbeiten, ungeeigneter Baugrund; Chemische, elektronische oder elektrische Einflüsse, sofern sie nicht auf ein Verschulden des Verkäufers zurückzuführen sind.
- e) Im Falle der Mängelbeseitigung hat der Käufer dem Verkäufer für die notwendigen Arbeiten eine angemessene Frist zu setzen. Verweigert er diese, so ist der Verkäufer von der Mängelhaftung befreit. Nur in dringenden Fällen der Gefährdung der Betriebssicherheit und zur Abwehr unverhältnismäßig großer Schäden, wobei der Verkäufer sofort zu verständigen ist, oder wenn der Verkäufer mit der Beseitigung des Mangels in Verzug ist, hat der Käufer das Recht, den Mangel selbst durch Dritte beseitigen zu lassen und vom Verkäufer Ersatz der notwendigen Kosten zu verlangen.

wendigen Kosten zu verlangen.

f) Für das Ersatzstück und die Ausbesserung beträgt die Gewährleistungsfrist 12 Monate. Die Frist für die Mängelhaftung an dem Liefergegenstand wird um die Dauer der durch die Nachbesserungsarbeiten verursachten Betriebsunterbrechung verlängert.

g) Durch etwaigen des Käufers oder Dritter unsachgemäß ohne vorherige Genehmigung des Verkäufers vorgenommene Änderungen oder Instandsetzungsarbeiten wird die Haftung für die daraus entstandenen Folgen aufgehoben.

h) Schlägt eine vom Verkäufer zu erfüllende Nachbesserung oder Ersatzlieferung fehl, so kann der Käufer vom Vertrag zurücktreten (Rücktritt) oder entsprechende Herabsetzung der Vergütung (Minderung) verlangen.

i) Der Verkäufer haftet dem Käufer für Vorsatz und grobe Fahrlässigkeit nach den gesetzlichen Bestimmungen. Gleiches gilt dann, wenn der zu liefernde Ware/Gegenstand eine zugesicherte Eigenschaft fehlt oder wenn der Verkäufer eine wesentliche Vertragspflicht schuldhaft verletzt. Sofern der Verkäufer fahrlässig eine Kardinalpflicht oder eine vertragswesentliche Pflicht verletzt, ist seine Ersatzpflicht auf den vertragstypischen, vorhersehbaren Schaden begrenzt. In allen anderen Fällen ist die Haftung des Verkäufers gegenüber dem Käufer - gleich, aus welchem Rechtsgrund - ausgeschlossen. Der Verkäufer wird sich auf diese Ausschlussklausel dann nicht berufen, wenn zugunsten des Verkäufers Versicherungsdeckung für den vom Käufer geltend gemachten Anspruch besteht.

2. Für gebrauchte Waren übernimmt der Verkäufer nur dann eine Mängelhaftung, wenn dies mit dem Käufer ausdrücklich schriftlich vereinbart wurde.

## VIII. Allgemeine Haftungsbegrenzung

1. Die Haftung des Verkäufers gegenüber dem Käufer richtet sich, soweit nicht vorstehend etwas anderes vereinbart ist, nach den gesetzlichen Bestimmungen. Dies gilt ohne Rücksicht auf die Rechtsnatur des geltend gemachten Anspruchs. Soweit Ansprüche gegenüber dem Verkäufer ausgeschlossen oder eingeschränkt sind, gilt dies auch zugunsten der persönlichen Haftung der Angestellten, Arbeitnehmer, Mitarbeiter, Erfüllungsgehilfen oder Stellvertreter des Verkäufers.

2. Die vom Käufer gegenüber dem Verkäufer geltend zu machenden Ansprüche verjähren nach den gesetzlichen Bestimmungen. Es besteht jedoch eine Ausschlussfrist von sechs Monaten, sofern der Verkäufer schriftlich einen Anspruch des Käufers als unbegründet zurückgewiesen hat.

## IX. Erfüllungsort, Gerichtsstand, anzuwendendes Recht

1. Erfüllungsort und ausschließlicher Gerichtsstand für Lieferung und Zahlungen sowie für sämtliche zwischen den Parteien sich ergebenden Streitigkeiten ist der Hauptsitz des Verkäufers.

2. Die Beziehungen zwischen den Vertragsparteien richten sich ausschließlich nach dem in der Bundesrepublik Deutschland geltenden Recht unter Ausschluss des UN-Kaufrechts.

3. Sollte eine Bestimmung diese allgemeinen Geschäftsbedingungen unwirksam sein, wird die Wirksamkeit der übrigen Bestimmungen hiervon nicht berührt.

4. Sofern keine anderen schriftlichen Vereinbarungen getroffen sind, geben diese Bedingungen die gesamten Vereinbarungen zwischen den Parteien wieder. Es bestehen keine mündlichen Nebenabreden. Änderungen, Ergänzungen und die Aufhebung dieser Bedingungen bedürfen der Schriftform. Dies gilt auch für den Verzicht auf das Schriftformerfordernis.

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