

bema[®]

A clean product line.

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CLEAN WORK ALL ALONG THE LINE.

That's not just our claim, it's a promise.

We have been working as a family-run company with an eye for detail since our foundation in 1940. In the third generation, we develop products that simply inspire. Whether it is in the field of agriculture, on construction sites, in municipal use, in a wide variety of industrial sectors or at airports - we always focus on the customer – worldwide.

We have always had one goal firmly in mind: To continuously improve our products, to be open to new ideas and to look beyond our own horizons. This is how we develop user-friendly products with convincing functionality and design.

We are looking forward to your challenge!

Yours sincerely,

Sojja Koopmann



MADE IN GERMANY.

Both our products and our business processes give the term „clean“ a clear definition:

bema works holistically, reliably, in a straightforward way and sustainably. Our quality management has been certified in accordance with the international standard DIN EN ISO 9001 since 1999. Since 2012, we have also met the strict criteria of the CrefoZert certificate of creditworthiness (Creditreform's seal of approval) every year. Again and again, we also prove our outstanding performance in business competitions and competitions relating to innovation.





Products for a wide variety of industries are developed and produced on a production area of almost 17,000 square meters

WELL EQUIPPED FOR A CLEAN FUTURE!

Sweeping, pushing, removing leaves and weeds.

bema can fit most every carrier vehicle with a suitable attachment solution.

There is no assembly line work at bema - each attachment is customised to meet your individual requirements. Whether indoors or outdoors, on the road or dealing with snow and ice in the winter, on a wide open meadow or on rough and twisty terrain: the challenges of daily use determine the shape of bema's products, both in terms of economical entry-level solutions as well as robust high-performance machines.

bema provides special expertise in the development and construction of airport sweepers. With our solutions, snow is cleared at airports in winter all over the world.

IN THE BEGINNING WAS THE HORSESHOE.

And with that came success.

In 1940, master blacksmith Heinrich Berens founded a farrier's smithy in Weese, Lower Saxony. He oriented the business to the times at an early stage: In the mid 50s, in addition to the classic trade as a blacksmith, he worked as a middleman and got into the business of agricultural equipment. When Heinrich Berens son Günther took over the business in the 1970s, he increasingly concentrated on the market for agricultural machinery. At the end of the 1980s, he recognised the signs of the times and set his sights on a gap in the market – mounted sweepers.

Since then, bema has been the specialist for quality products that meet the individual requirements of customers all over the world. Now in the third generation, the company is managed by Sonja Koopmann, née Berens. And that comes from being successful down the entire line: Machines for a wide variety of industries are developed and produced on an area covering almost 17,000 square metres. The six-hectare company site still offers sufficient scope for further expansion in the future.



From a forge to a machine factory



The company has been based in Voltlage-Weese in Lower Saxony since 1940

PRODUCT FINDER

Well equipped for all requirements

		Technical data		
		Main brush Ø (mm)	Collection container	Working width (mm)
Sweepers	bema Jumbo	920		2750 / 3000 / 3250 / 3500
	bema 75 Dual PowerMaster	780	✓	2600 / 2800 / 3200
	bema 35 Dual PowerMaster	700	✓	2050 / 2300 / 2600 / 2800
	bema 30 Dual PowerMaster	640	✓	1850 / 2050 / 2300 / 2600
	bema 25 / bema 25 Dual series 25 modular kit	580	✓	1550 / 1850 / 2050 / 2300 / 2750
	bema 20 / bema 20 Dual series 20 modular kit	520	✓	1250 / 1550 / 1850 / 2300
	bema 40 Industry	660	✓	1250 / 1550 / 2050
Municipal sweepers	bema Kommunal 580 Dual	580	✓	1250 / 1400 / 1550 / 1700 / 1850 / 2050
	bema Kommunal 450 Dual	450	✓	1250 / 1400 / 1550
Airport sweepers	bema Jumbo Airport Turbo cassette system, gearbox, rotation speed up to max. 400 rpm	920		3550 / 4200 / 5200
	bema Jumbo Airport cassette system, chain	920		2750 / 3000
	bema 3 Airport	660		3050 / 3550 / 4550
	bema Snow-Combi	660		Snow plough: 3550 Sweeper: 2850
Push brooms	bema 11 Multi-Clean			1500 / 2000 / 2500 / 3000
Weede removal	bema Groby			
	bema Groby light			
Suction sweeping system	bema Suction sweeper with/without chaff blower, complete rear unit	200		1200, extendable to 1800 by 2 rotary side brushes
	bema Tipping container with/without chaff blower, complete rear unit		✓	
Snow ploughs	bema Snow plough series 1100			2250 / 2500 / 2750 / 3000 / 3500
	bema Snow plough series 700			1300 / 1550 / 1800 / 2050 / 2300 / 2550
	bema Snow plough series 550			1300 / 1550 / 1800
	bema V-plough V800			1600 / 1850 / 2100 / 2350 / 2600 / 3000

Your carrier vehicle (extract)													Optional equipment (extract)										
Wheel loader from 12 t	Wheel loader 7 t to 12 t	Wheel loader up to 7 t	Telehandler	Yard loader	Forklift	Unimog truck	Municipal vehicle	Tractor	Compact tractor	Excavator	Mini excavator	Front mower	Mechanical drive	bema Weed brush	bema Scraper unit	bema High-pressure water unit	bema PowerPack	bema Control (from 3 functions)	Rotary side brush incl. bema SideControl	Water spray unit	Hydraulic swivel device	Lateral movement	
✓								✓					✓					✓		✓	✓		
✓	✓		✓					✓							✓	✓		✓	✓	✓	✓		
	✓	✓	✓		✓	✓		✓					✓		✓	✓		✓	✓	✓	✓	✓	
		✓	✓	✓	✓	✓		✓					✓		✓	✓		✓	✓	✓	✓	✓	
		✓		✓	✓			✓	✓				✓	✓				✓	✓	✓	✓		
		✓		✓	✓			✓										✓	✓	✓			
				✓			✓	✓	✓				✓	✓			✓	✓	✓	✓	✓		
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		✓	✓	✓	✓			✓	✓	✓								✓	✓	✓	✓		
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		✓	✓	✓		✓	✓	✓	✓												✓		



bema Jumbo

FOR INTENSIVE USE



Cleaning with a main brush diameter of 920 mm

The huge and extremely powerful bema Jumbo masters tough conditions on the construction site, in recycling yards and surface mining/extraction operations, at airports, inland ports and seaports or in the field of snow and ice clearance. Thanks to its robust construction and particularly strong attachment, this free sweeping machine is ideally suited for use on heavy carrier vehicles.





FEATURES

- ✓ **Extremely powerful cleaning performance as a result of the PPN power brush Ø 920 mm:**
The above average brush diameter as well as the honeycomb broom rings guarantee convincing cleaning results.
- ✓ **The free sweeping version in extremely stable construction:**
An indestructible tool that gives the driver a good overview from the vehicle.
- ✓ **Optimal adaptation to the ground on uneven terrain:**
The bema Jumbo is optimally guided by the roller level compensation including a height indicator and pneumatic wheels Ø 460 x 145 mm with reinforced rim (4 mm / optional super-elastic solid rubber wheels).
- ✓ **Can be used in a variety of applications:**
The drive can either be carried out mechanically or hydraulically.
- ✓ **Secured hydraulic system:**
Flow control valve, pressure relief valve and protection against overrun.

CARRIER VEHICLES

-  Wheel loader
from 12 t
-  Tractor
front/rear

OPTIONAL EQUIPMENT

-  Mechanical drive
incl. drive shaft
-  Water spray unit
main brush
-  Hydraulic swivel device
20° to the left/right
-  bema Control
from 3 functions available



bema Jumbo on a wheel loader (quick change adaptor with roller levelling)



bema Jumbo on a tractor rear (three point linkage / rear)



bema Jumbo attached to a tractor (front)



bema Jumbo attached to a tractor (front)

TECHNICAL DATA

Machine type	bema Jumbo			
Working width	2750 mm	3000 mm	3250 mm	3500 mm
Drive	Hydraulic drive, powerful Gerotormotor with drive shaft \varnothing 32 mm, completely inside (heavy series). Optional mechanical drive incl. drive shaft (simplex chain) or reinforced mechanical drive incl. drive shaft (duplex chain, for winter service 250 rpm)			
Minimum hydraulic power of the carrier vehicle	60 l/min			
Weight basic version (approx.)	920 kg	944 kg	978 kg	1005 kg
Plus weight protective cover (approx.)	40 kg	42 kg	47 kg	49 kg
Main brush \varnothing 920 mm	PPN BEE-LINE power brush with honeycomb brush rings (no PVC), toolless and stepless adjustment of the main brush via adjustment spindle			
Brush speed	Recommended 80 to 120 rpm			
Wheels	Pneumatic tyres \varnothing 460 x 145 mm with reinforced rim 4 mm, optional super-elastic solid rubber wheels \varnothing 446 x 122 mm with reinforced rim 4 mm, height-adjustable			
Water spray unit (optional equipment)	400 litres water tank, tank filter and 12/24 volts pressure pump (direct injection of water into the main brush)			
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)				

FEATURES IN DETAIL



Pendulum compensation (three point linkage/rear)



Chain box (side chain drive)



Sturdy wheels \varnothing 460 x 145 mm with reinforced rim 4 mm



bema 75 Dual PowerMaster

FLEXIBLE AND TOUGH




Untiring performance as a result of the main brush Ø 780 mm

The bema 75 Dual PowerMaster guarantees clean results on construction sites, in mining/extraction operations, biogas plants and in other kinds of agricultural businesses. Extra large wheels with heavy cast wheel bodies and high-quality elastic/solid rubber tyres master uneven terrain effortlessly.






FEATURES

- ✓ **Sustained deployment without disruptions:**
Long service life as a result of a main brush diameter of 780 mm and a large-volume collection container.
- ✓ **Maximum protection through bema premium hydroblock:**
It contains all of the hydraulic control and safety elements such as an overpressure valve, overrun protection of the main brush, a switching valve for the collection container „Dual“ and connection options for the rotary side brushes. Furthermore a flow control valve (up to 220 l/min), a load sensing system and an additional electric 2-way valve is included.
- ✓ **Durable and high performance:**
Completely internal, maintenance-free Gerotormotors.
- ✓ **Optimum adaptation to every kind of ground:**
Super elastic solid rubber wheels Ø 360 x 85 mm (cast wheel body), 3D roller level compensation with height control indicator „bema-Meter“.
- ✓ **Flexible when deployed, thanks to the Dual system:**
Easy switching between free sweeping and collecting dirt. No changeover time required.

CARRIER VEHICLES

-  Wheel loader
from 7 t
-  Telehandler
-  Tractor
front

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brush
with bema SideControl
-  Hydraulic swivel device
20° to the left/right
-  Scraper unit
without/with collection container
-  High-pressure water unit
120 bar or 50 bar
-  bema Control
from 3 functions available



bema 75 Dual PowerMaster with scraper unit instead of collection container, rotary side brush, high pressure water unit and water tank in the rear (see page 58/59)



bema 75 Dual PowerMaster with scraper unit instead of collection container (see page 58/59)



bema 75 Dual PowerMaster on telehandler, quick change adaptor



Free sweeping on a Biogas plant with the bema 75 Dual PowerMaster

TECHNICAL DATA

Machine type	bema 75 Dual PowerMaster		
Working width	2600 mm	2800 mm	3200 mm
Drive	Hydraulic drive, two powerful Gerotormotors with drive shaft Ø 32 mm, completely inside (heavy series)		
Minimum hydraulic power of the carrier vehicle	60 l/min	70 l/min	80 l/min
Weight basic machine <small>excl. special equipment (approx.)</small>	675 kg	740 kg	831 kg
Volume / weight (approx.) collection container Dual	810 l / 328 kg	870 l / 360 kg	1000 l / 404 kg
Main brush Ø 780 mm	Steel flat wire/PPN spiral segments brush, PPN or snow brush PPN, toolless and stepless adjustment of the main brush via adjustment spindle		
Brush speed	Recommended 100 to 140 rpm		
Wheels	Super-elastic solid rubber wheels Ø 360 x 85 mm with robust cast wheel centres		
Rotary side brush Ø 780 mm <small>(optional equipment)</small>	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, selectable brushes: PPN, steel flat wire/PPN or steel flat wire		
Water spray unit <small>(optional equipment)</small>	240/400 litres water tank, tank filter and 12/24 volts pressure pump (direct injection of water into the main brush and rotary side brushes)		
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)			

FEATURES IN DETAIL



Premium hydroblock combines all units



3D roller level compensation and optional swivel joint



Sturdy wheels with cast wheel body, high pressure water unit (see page 59)



bema 35 Dual PowerMaster



PROFESSIONAL USE EVERY DAY

Main brush Ø 700 mm with different trims

The powerful and robust bema 35 Dual PowerMaster easily cleans construction sites, roads, industrial areas and biogas plants. Whether fine dust, dirt or even stuck mud and tyre grime, there is no debris that the bema 35 Dual PowerMaster can not remove quickly and effectively.









FEATURES

- ✓ **Automatic adjustment:**
The 3D roller level compensation and the optional swivel joint balance effortlessly any unevenness.
- ✓ **Manages of large amounts of dirt:**
Collection container with a large volume.
- ✓ **Long service life thanks to maintenance-free, internal motors and reliable thanks to central control:**
The Hydroblock contains all of the hydraulic control and safety elements such as an overpressure valve, overrun protection of the main brush, a switching valve for the collection container „Dual“ and connection options for the rotary side brushes. The premium version including flow control valve (up to 220 l/min), a load sensing system and an additional electric 2-way valve is optionally available.
- ✓ **Flexible use, thanks to the Dual system:**
Fast and easy switching between free sweeping and collecting dirt, no changeover time required.
- ✓ **Optimally equipped for every application:**
Equipment of the sweeper according to customer requirements.

CARRIER VEHICLES

-  Wheel loader
up to 12 t
-  Telehandler
-  Unimog truck
-  Forklift
-  Tractor
front

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brush
with bema SideControl
-  Mechanical drive
incl. drive shaft
-  Hydraulic lateral movement
500 mm to the left/right
-  Hydraulic swivel device
20° to the left/right
-  Scrapper unit
without/with collection container
-  High-pressure water unit
120 bar or 50 bar
-  bema Control
from 3 functions available



bema 35 Dual PowerMaster equipped with collection container Dual including scrapper unit, high-pressure water unit, water tank in the rear and certified camera system (see page 58/59)



bema 35 Dual PowerMaster with water spray unit and rotary side brush (free sweeping)



bema 35 Dual PowerMaster with hydraulic lateral movement (collection container opened / free sweeping)



bema 35 Dual PowerMaster in municipal use, Unimog attachment

TECHNICAL DATA

Machine type	bema 35 Dual PowerMaster			
Working width	2050 mm	2300 mm	2600 mm	2800 mm
Drive	Hydraulic drive, powerful Gerotormotor with drive shaft Ø 32 mm, completely inside (heavy series). Optional mechanical drive incl. drive shaft		Hydraulic drive, two powerful Gerotormotors with drive shaft Ø 32 mm, completely inside (heavy series). Optional mechanical drive incl. drive shaft	
Minimum hydraulic power of the carrier vehicle	40 l/min		80 l/min	
Weight basic machine <small>excl. special equipment (approx.)</small>	470 kg	485 kg	490 kg	500 kg
Volume / weight (approx.) collection container Dual	480 l / 185 kg	540 l / 200 kg	610 l / 210 kg	670 l / 225 kg
Main brush Ø 700 mm	Steel/PPN spiral segment brush, PPN or snow brush PPN, optional steel flat wire/PPN mixture brush. Toolless and stepless adjustment of the main brush via adjustment spindle			
Brush speed	Recommended 100 to 150 rpm			
Wheels	Super-elastic wheels Ø 300 x 90 mm (railsafe)			
Rotary side brush Ø 600 mm <small>(optional equipment)</small>	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, selectable brushes: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed trim			
Water spray unit <small>(optional equipment)</small>	240/400 litres water tank, tank filter and 12/24 volts pressure pump (direct injection of water into the main brush and rotary side brushes)			
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)				

FEATURES IN DETAIL



Stable Super-elastic wheels Ø 300 x 90 mm, telehandler attachment



3D roller level compensation and optional swivel joint



Hydroblock and bema SideControl



bema 30 Dual PowerMaster

MASTERS EVERYDAY TASKS

Main brush Ø 640 mm with different trims

The bema 30 Dual PowerMaster guarantees best sweeping results when used in agriculture, road construction and industry. And it performs day after day. The smallest model of the PowerMaster range is also equipped with an internal motor. Thanks to a wide variety of extensive optional equipment the sweeper is extremely versatile.









FEATURES

- ✓ **Automatic adjustment:**
The 3D roller level compensation and the optional swivel joint balance effortlessly any unevenness.
- ✓ **Manages of large amounts of dirt:**
Collection container with a large volume.
- ✓ **Reliable thanks to central control and durable thanks to internal motors:**
The Hydroblock contains all of the hydraulic control and safety elements such as an overpressure valve, overrun protection of the main brush, a switching valve for the collection container „Dual“ and connection options for the rotary side brushes. The premium version including flow control valve (up to 220 l/min), a load sensing system and an additional electric 2-way valve is optionally available.
- ✓ **Flexible use, thanks to the Dual system:**
Fast and easy switching between free sweeping and collecting dirt, no changeover time required.
- ✓ **Optimally equipped for every application:**
Equipment of the sweeper according to customer requirements.

CARRIER VEHICLES

-  Wheel loader
up to 7 t
-  Telehandler
-  Yard loader
-  Unimog truck
-  Forklift
-  Tractor
front/rear

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brush
with bema SideControl
-  Mechanical drive
incl. drive shaft
-  Hydraulic lateral movement
500 mm to the left/right
-  Hydraulic swivel device
20° to the left/right
-  Scraper unit
without collection container
-  High-pressure water unit
120 bar or 50 bar
-  bema Control
from 3 functions available



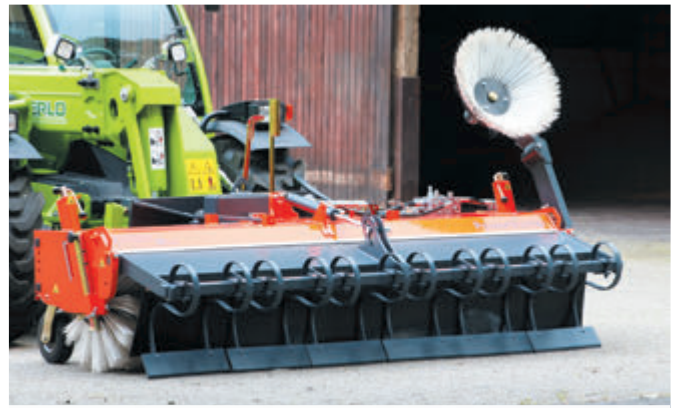
bema 30 Dual PowerMaster attached on Unimog with rotary side brush and hydraulic lateral movement (500 mm to the left/right)



bema 30 Dual PowerMaster attached on wheel loader, collection container Dual opened



bema 30 Dual PowerMaster without collection container (free sweeping)



bema 30 Dual PowerMaster without collection container with bema scraper unit (see page 58/59)

TECHNICAL DATA

Machine type	bema 30 Dual PowerMaster			
Working width	1850 mm	2050 mm	2300 mm	2600 mm
Drive	Hydraulic drive, powerful Gerotormotor with drive shaft Ø 32 mm completely inside (heavy series). Optional mechanical drive incl. drive shaft			
Minimum hydraulic power of the carrier vehicle	35 l/min			
Weight basic machine <small>excl. special equipment (approx.)</small>	295 kg	340 kg	390 kg	445 kg
Volume / weight (approx.) collection container Dual	340 l / 150 kg	380 l / 160 kg	430 l / 165 kg	480 l / 175 kg
Main brush Ø 640 mm	PPN or snow brush PPN, optional steel/PPN mixture brush, steel flat wire/PPN mixture brush. Toolless and stepless adjustment of the main brush via adjustment spindle			
Brush speed	Recommended 100 to 150 rpm			
Wheels	Super-elastic wheels Ø 250 x 80 mm (railsafe)			
Rotary side brush Ø 600 mm <small>(optional equipment)</small>	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, Selectable brushes: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed trim			
Water spray unit <small>(optional equipment)</small>	200/400 litres water tank, tank filter and 12/24 volts pressure pump (direct injection of water into the main brush and rotary side brushes)			
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)				

FEATURES IN DETAIL



Premium-Hydroblock (optional) and bema SideControl



Rotary side brush for gutters, curbstones and building borders



3D roller level compensation and optional swivel joint



bema 25 / bema 25 Dual

SWEEPERS BUILT FROM A MODULAR KIT





Series 25 with main brush 580 mm

From single to Dual! Depending on budget, application and carrier vehicle the sweeper is configured from the modular system. From the basic machine without a collection container through to the comfortable „Dual“ version with the full range of equipment. Retrofitting at a later date is no problem.







FEATURES

- ✓ **Real multitailents:**
The entry-level models offer a wide range of attachment possibilities, as well as different main brush types.
- ✓ **Best value for your money and longlife quality „Made in Germany“:**
Use of high-quality components and materials.
- ✓ **Gets to grips with large quantities of dirt:**
Collection container with volumes between 220 litres and 435 litres depending on type of collection container and working width.
- ✓ **Optimum sweeping results thanks to individually adjustable sweeping roller contact pressure:**
Stepless spindel adjustment of the main brush. Comes as standard in the „Dual“ configuration, optional in all other configurations.
- ✓ **Outstanding adaptation to the ground:**
3D roller level compensation with a height control display „bema-Meter“.
- ✓ **Optimally equipped for every application:**
Equipment of the sweeper according to customer requirements.

CARRIER VEHICLES

-  Wheel loader
up to 7 t
-  Yard loader
-  Forklift
-  Tractor
front/rear (Dual only front)

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brushes
with bema SideControl
-  Mechanical drive
incl. drive shaft
-  Hydraulic swivel device
20° to the left/right
-  bema Weed brush
main brush
-  bema Control
from 3 functions available



bema 25 Dual with two rotary side brushes for weed removal



bema 25 with bema Weed brush (special attachment)



Free sweeping with the bema 25 Dual



Collecting dirt with the bema 25 Dual

TECHNICAL DATA

Machine type	bema 25 / bema 25 Dual				
Working width	1550 mm	1850 mm	2050 mm	2300 mm	2750 mm
Drive	Hydraulic drive, powerful Gerotormotor with drive shaft Ø 32 mm (heavy series, industrial quality), optional mechanical drive incl. drive shaft				
Minimum hydraulic power of the carrier vehicle	25 l/min	30 l/min		40 l/min	
Weight basic machine (approx.)	160 kg	180 kg	190 kg	200 kg	215 kg
Volume / weight (approx.) collection container hydraulic emptying	220 l / 75 kg	250 l / 80 kg	280 l / 85 kg	310 l / 90 kg	370 l / 100 kg
Volume / weight (approx.) collection container Dual	245 l / 90 kg	290 l / 100 kg	325 l / 109 kg	365 l / 116 kg	435 l / 131 kg
Main brush Ø 580 mm	PPN or snow brush PPN. Optional: steel/PPN, steel flat wire/PPN, bema weed brush. Stepless spindle adjustment of the main brush (optional, standard component in Dual version)				
Brush speed	Recommended 120 to 160 rpm				
Wheels	Heavy duty support wheels Ø 200 x 50 mm or optional super-elastic wheels Ø 200 x 80 mm (height-adjustable, industry quality)				
Wheels Dual version	Heavy duty support wheels Ø 250 x 50 mm or optional super-elastic wheels Ø 250 x 80 mm (not height-adjustable)				
Rotary side brushes Ø 600 mm (optional equipment)	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, selectable brushes: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed trim				
Water spray unit (optional equipment)	240 litres water tank, tank filter and 12/24 volts pressure pump, 200 litres in case of tractor attachment (direct injection of water into the main brush and rotary side brushes)				
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)					

FEATURES IN DETAIL



Stepless spindle adjustment of the main brush



Rotary side brush with a water spray unit



bema 25, collection container with 3rd support wheel



bema 20 / bema 20 Dual

SWEEPERS BUILT FROM A MODULAR KIT





Series 20 with main brush 520 mm

From single to Dual! Depending on budget, application and carrier vehicle the sweeper is configured from the modular system. From the basic machine without a collection container through to the comfortable „Dual“ version with the full range of equipment. Retrofitting at a later date is no problem.







FEATURES

- ✓ **Large collection container volume:**
Ranges between 135 litres and 270 litres depending on collection container type and working width.
- ✓ **Best value for your money and longlife quality „Made in Germany“:**
Use of high-quality components and materials.
- ✓ **A small sweeper with many equipment components - optimally tailored to your needs:**
Various brushes for year-round use, water spray unit, rotary side brushes, 3D roller level compensation with „bema-Meter“, collection container „Dual“, stepless spindle adjustment of the main brush, wheels and much more are individually configurable.
- ✓ **Best sweeping results:**
Due to individually adjustable brush pressure via stepless spindle adjustment.
- ✓ **The bema 20 Dual is a unique sweeper:**
There is no comparable solution in this performance class on the market.

CARRIER VEHICLES

-  Yard loader
-  Forklift
-  Tractor
front/rear (Dual only front)
-  Compact tractor
front/rear (Dual only front)

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brushes
with bema SideControl
-  Mechanical drive
incl. drive shaft
-  Hydraulic swivel device
20° to the left/right
-  bema Weed brush
optional main brush
-  bema Control
from 3 functions available



bema 20 Dual with water spray unit and rotary side brush



bema 20 Dual with full equipment, collection container in proven Dual system



Emptying of the collection container via rope (mechanical)



bema 20 mounted on tractor rear

TECHNICAL DATA

Machine type	bema 20 / bema 20 Dual			
Working width	1250 mm	1550 mm	1850 mm	2300 mm
Drive	Hydraulic drive, powerful Gerotormotor with drive shaft Ø 32 mm (heavy series, industrial quality), optional mechanical drive incl. drive shaft			
Minimum hydraulic power of the carrier vehicle	20 l/min	25 l/min	30 l/min	
Weight basic machine (approx.)	130 kg	150 kg	170 kg	190 kg
Volume / weight (approx.) collection container emptying via rope & hydraulic	135 l / 60 kg	165 l / 70 kg	195 l / 75 kg	245 l / 85 kg
Volume / weight (approx.) collection container Dual	148 l / 66 kg	182 l / 76 kg	220 l / 86 kg	270 l / 100 kg
Main brush Ø 520 mm	PPN or snow brush PPN. Optional: steel/PPN, steel flat wire/PPN, bema weed brush. Stepless spindel adjustment of the main brush (optional, standard component in Dual version)			
Brush speed	Recommended 120 to 160 rpm			
Wheels	Ø 200 x 50 mm height-adjustable (Dual version not height-adjustable); 3rd support wheel in heavy duty version, optional completely heavy duty wheels			
Rotary side brushes Ø 600 mm (optional equipment)	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, selectable brushes: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed trim			
Water spray unit (optional equipment)	100/240 litres water tank, tank filter and 12/24 volts pressure pump (direct injection of water into the main brush and rotary side brushes)			
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)				

FEATURES IN DETAIL



bema 20 (hydraulic emptying)



bema 20 (emptying via rope)



bema 20 without collection container (free sweeping)



bema 40 Industry

LARGELY DUST-FREE OPERATION

Fully encapsulated machine housing with main brush Ø 660 mm

The bema 40 Industry is the perfect sweeper for interior and exterior cleaning. Dust-free operation is largely achieved due to the fully encapsulated machine housing. Further minimisation of dust generation is possible by the activation of an optional water spray unit. The special main brush easily pick up stubborn coarse dirt as well as fine dust.


FEATURES

- ✓ **Central control and protection of the entire hydraulic system:**
The hydroblock contains all of the hydraulic control and safety elements such as an overpressure valve, protection against sweeping roller overrun, switch valve for the collection container and connection options for the rotary side brushes. The premium hydroblock is optionally available.
- ✓ **Large quantities can be swept without interruption - coarse dirt and/or fine dust:**
Internal collection container with a large capacity.
- ✓ **Optimal guidance on the ground due to sturdy wheels:**
Super elastic wheels Ø 200 x 80 mm, as well as a third support wheel Ø 250 x 80 mm and level compensation.
- ✓ **Convenient emptying of the dirt trough:**
High emptying above container.
- ✓ **Convincing cleaning results on smooth floor coverings, fine dust or interior cleaning:**
Stepless spindle adjustment of the main brush.






bema 40 Industry in use inside

CARRIER VEHICLES

-  Wheel loader
up to 7 t
-  Yard loader
-  Forklift
-  Tractor
front

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brushes
with bema SideControl
-  bema Control
from 3 functions available



bema 40 Industry in use outside



bema 40 Industry with rotary side brush and water spray unit



Convenient emptying above container

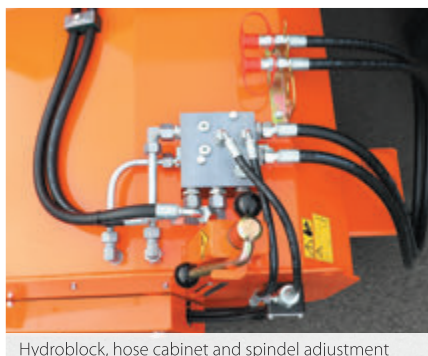
TECHNICAL DATA

Machine type	bema 40 Industry		
Working width	1250 mm	1550 mm	2050 mm
Drive	Hydraulic drive via powerful Gerotormotor with drive shaft Ø 32 mm, completely inside (heavy series)		
Minimum hydraulic power of the carrier vehicle	20 l/min	30 l/min	40 l/min
Volume / weight (approx.) collection container	275 l / 460 kg	345 l / 500 kg	450 l / 570 kg
Main brush Ø 660 mm	PPN-industrial trim (soft/hard bristles mixed, arranged in a V-shape), optional steel/PPN mixture brush, steel flat wire/PPN mixture brush		
Brush speed	Recommended 100 to 150 rpm		
Wheels	Super-elastic wheels Ø 200 x 80 mm (railsafe), 3rd wheel Ø 250 x 80 mm with vulcanized elastic rubber (railsafe)		
Rotary side brushes Ø 800 mm (optional equipment)	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, selectable brushes: PPN industrial trim, steel/PPN multi-mix trim, steel flat wire/PPN, steel flat wire		
Water spray unit (optional equipment)	200 litres water tank, tank filter and 12/24 volts pressure pump (direct injection of water into the main brush and rotary side brushes)		
Further details	Hydraulic collection container with polyurethan strip; dust protection and rubber bumper completely around the machine casing		
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)			

FEATURES IN DETAIL



Industrial trim spiral mixed brush, arranged in a V-shape



Hydroblock, hose cabinet and spindle adjustment



Locking on the forklift



NEW

bema Kommunal 580 Dual



MULTIFUNCTIONAL DEPLOYMENT

Main brush Ø 580 mm with different trims

Whether on playgrounds, sports fields, parks, leisure areas or cycle paths and pavements the bema Kommunal 580 Dual provides impressive performance with simple handling especially for municipal carrier vehicles. The sweeper is universally usable: from the cleaning of light and coarse dirt up to sweeping snow in winter service and removal of annoying weeds.







FEATURES

- ✓ **Adapted for municipal requirements:**
The compact attachment ensures optimal weight distribution close to the axis. The low mounting height guarantees a good view from the carrier vehicle. All mountings with 3D compensation.
- ✓ **Multiply deployable and optimal power transmission:**
Either hydraulic drive via a powerful Gerotormotor or mechanical drive via a drive shaft.
The incline of the drive can be adjusted, so that the position exactly matches to the carrier vehicle.
- ✓ **Maintenance-friendly in year-round use:**
Both parts and the main brush can be quickly replaced.
The sweeper can be used all year round thanks to the various trims.
- ✓ **Maximum flexibility:**
The collection container in Dual version enables easy switching between free sweeping and collecting dirt without changeover time.
The sweeper swivels mechanically or optionally hydraulically.

CARRIER VEHICLES

-  Yard loader
-  Municipal vehicle
-  Tractor
front
-  Compact tractor
front

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brushes
with bema SideControl
-  Hydraulic swivel device
20° to the left/right
-  bema Weed brush
optional main brush
-  bema PowerPack
hydraulic power unit
-  bema Control
from 3 functions available



bema Kommunal 580 Dual with rotary side brush - ideal for kerbs, gutters and on buildings



bema Kommunal 580 Dual with protection cover (without collection container), snow brush



bema Kommunal 580 Dual with water spray unit for the main brush and the rotary side brush, water tank at the top of the sweeper



Collection container in Dual system - very quick change between free sweeping and collecting dirt

TECHNICAL DATA

Machine type	bema Kommunal 580 Dual					
Working width	1250 mm	1400 mm	1550 mm	1700 mm	1850 mm	2050 mm
Drive	Your choice: mechanical drive incl. drive shaft (the incline of the drive can be adjusted) or hydraulic drive via powerful Gerotormotor with drive shaft Ø 25 mm (heavy series)					
Minimum hydraulic power of the carrier vehicle	20 l/min		25 l/min		30 l/min	35 l/min
Minimum engine power of the carrier vehicle	Compact tractors with more than approx. 30 PS					
Weight basic machine (approx.)	157 kg	162 kg	167 kg	172 kg	177 kg	181 kg
Volume / weight (approx.) collection container Dual	148 l / 66 kg	165 l / 71 kg	182 l / 76 kg	202 l / 81 kg	220 l / 86 kg	242 l / 93 kg
Main brush Ø 580 mm	PPN or snow brush PPN, optional steel/PPN, steel flat wire/PPN, bema Weed brush (Ø 510/560 mm), easy changing of the main brush					
Brush speed	Recommended 120 to max. 250 rpm					
Wheels	Heavy-duty wheels Ø 200 x 50 mm, optional super-elastic wheels Ø 200 x 80 mm					
Rotary side brushes Ø 600 mm (optional equipment)	Hydraulic drive incl. bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, selectable brushes: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed trim					
Water spray unit (optional equipment)	100/200 litres water tank on top of the machine, 240 litres water tank as rear attachment, tank filter and 12 volts pressure pump (direct injection of water into the main brush and rotary side brushes)					
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)						

FEATURES IN DETAIL



Hydroblock and rotary side brush with bema SideControl



bema PowerPack with oil cooler and water tank in the rear



Mechanical drive



NEW

bema Kommunal 450 Dual



ULTRALIGHT & COMPACT





Main brush Ø 450 mm with different trims

The sweeper bema Kommunal 450 Dual is attached very close to smaller municipal vehicles, compact tractors, yard loaders and front mowers. Despite its light weight, the bema Kommunal 450 Dual is extremely robust and provides convincing performance with optimum sweeping results, even in winter service.







FEATURES

- ✓ **Adapted for municipal requirements:**
The compact attachment ensures optimal weight distribution close to the axis. The low mounting height guarantees a good view from the carrier vehicle. All mountings with 3D compensation.
- ✓ **Multiply deployable and optimal power transmission:**
Either hydraulic drive via a powerful Gerotormotor or mechanical drive via a drive shaft.
The incline of the drive can be adjusted, so that the position exactly matches to the carrier vehicle.
- ✓ **Maintenance-friendly in year-round use:**
Both parts and the main brush can be quickly replaced.
The sweeper can be used all year round thanks to the various trims.
- ✓ **Maximum flexibility:**
The collection container in Dual version enables easy switching between free sweeping and collecting dirt without changeover time.
The sweeper swivels mechanically or optionally hydraulically.

CARRIER VEHICLES

-  Yard loader
-  Compact tractor front
-  Municipal vehicle
-  Front mower

OPTIONAL EQUIPMENT

-  Water spray unit
main brush, rotary side brushes
-  Rotary side brushes
with bema SideControl
-  Hydraulic swivel device
20° to the left/right
-  bema Weed brush
optional main brush
-  bema PowerPack
hydraulic power unit
-  bema Control
from 3 functions available



bema Kommunal 450 Dual with protection cover (without collection container/free sweeping)



bema Kommunal 450 Dual with bema Weed brush



bema Kommunal 450 Dual with two rotary side brushes



bema Kommunal 450 Dual with water tank in the rear

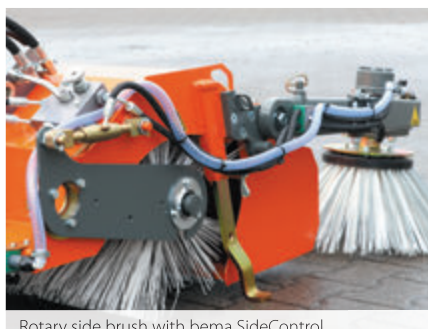
TECHNICAL DATA

Machine type	bema Kommunal 450 Dual		
Working width	1250 mm	1400 mm	1550 mm
Drive	Your choice: mechanical drive incl. drive shaft (the incline of the drive can be adjusted) or hydraulic drive via powerful Gerotormotor with drive shaft Ø 25 mm (heavy series)		
Minimum hydraulic power of the carrier vehicle	15 l/min		20 l/min
Minimum engine power of the carrier vehicle	Compact tractors with more than approx. 15 PS		
Weight basic machine (approx.)	118 kg	123 kg	127 kg
Volume / weight (approx.) collection container Dual	84 l / 38 kg	94 l / 42 kg	104 l / 47 kg
Main brush Ø 450 mm	Universal brush PPN spiral fitting (also for use in snow), optional steel flat wire/PPN spiral fitting, bema Weed brush (Ø 400 mm incl. reinforced drive), easy changing of the main brush		
Brush speed	Recommended 150 to max. 250 rpm		
Wheels	Heavy-duty wheels Ø 160 x 50 mm (industrial version)		
Rotary side brushes Ø 480 mm (optional equipment)	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side, selectable brushes: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed trim		
Water spray unit (optional equipment)	240 litres water tank as rear attachment, tank filter and 12 volts pressure pump (direct injection of water into the main brush and rotary side brushes)		
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)			

FEATURES IN DETAIL



Mechanical drive



Rotary side brush with bema SideControl and water spray unit



bema PowerPack with oil cooler and water tank in the rear



bema Jumbo Airport Turbo

HIGH PERFORMANCE AT THE AIRPORT

Cleaning with a speed of up to 40 km/h

bema offers customised solutions for winter service at airports. The bema Jumbo Airport Turbo is equipped with a main brush diameter of 920 mm and a working width of up to 5200 mm, making it the largest machine in the bema product range. With up to 400 revolutions per minute, this special machine is already in service at numerous international airports.


FEATURES


- ✓ **Tremendous cleaning performance and fast working as a result of a large main brush of 920 mm, a high-performance gearbox and maximum working widths:**
 Travel speeds of up to 40 km/h and rotation speeds of the main brush up to max. 400 rpm are possible. The bema Jumbo Airport Turbo is available in working widths up to 5200 mm.
- ✓ **An uncomplicated and time-saving exchange of the brush elements as a result of the cartridge system:**
 The PPN main brush consists of individual brush elements on a special aluminium profile carrier tube. This can be easily exchanged. It is not necessary to dismantle the whole main brush.
- ✓ **Extremely high load capacity thanks to the twin wheels:**
 Solid rubber twin wheels 5.00-8 with reinforced rims (5 mm thick).
- ✓ **The Jumbo Airport Turbo already comes with extensive equipment:**
 Mechanical drive via gearbox (at 5200 mm on both sides, low-maintenance), lighting system according to the road traffic regulations (StVZO), hydraulic swivel device incl. adjustable restrictor and protective cover.

CARRIER VEHICLE


 Tractor rear

EQUIPMENT

 Mechanical drive via gearbox, at 5200 mm double-sided

 Hydraulic swivel device 20° to the left/right incl. adjustable restrictor

OPTIONAL EQUIPMENT

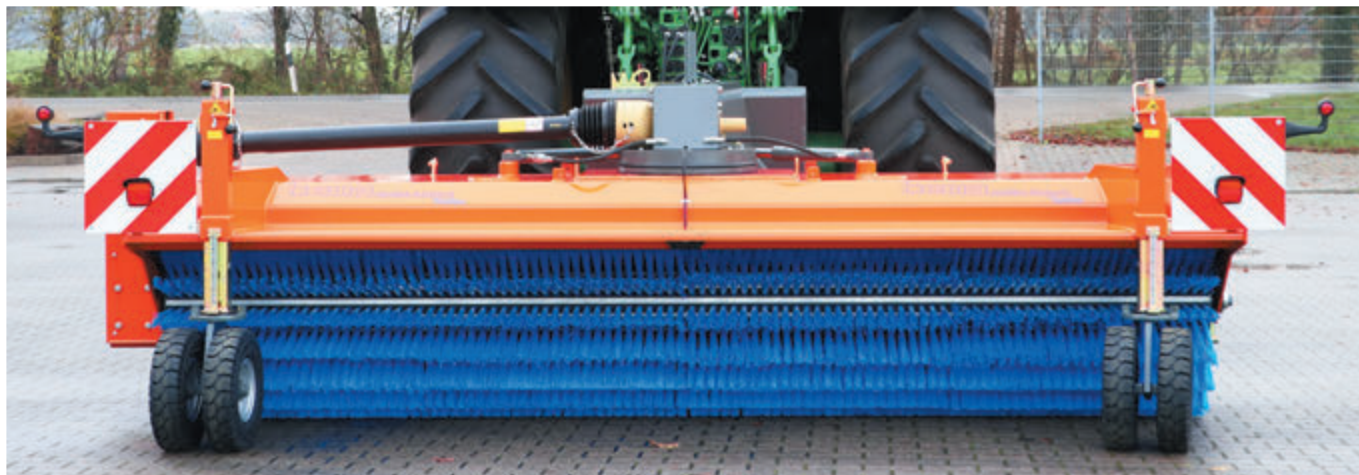
 bema Control from 3 functions available



bema Jumbo Airport Turbo convinces with a 5200 working width



bema Jumbo Airport Turbo on tractor rear



The tremendous cleaning performance is optimally suited for deployment at the airport during a hard winter.

TECHNICAL DATA

Machine type	bema Jumbo Airport Turbo		
Working width	3550 mm	4200 mm	5200 mm
Drive	Mechanical drive via gearbox, low-maintenance, drive shaft incl. overrunning clutch		Double-sided mechanical drive via gearbox, low-maintenance, drive shaft incl. overrunning clutch
Minimum engine power of the carrier vehicle	180 PS		
Weight incl. protection plate (approx.)	1455 kg	1580 kg	2445 kg
Main brush Ø 920 mm	Cassette system of individual PPN brush elements, fitted on a stable and special constructed support tube made of aluminium profile (Special construction developed for bema)		
Brush speed	Maximum 400 rpm		
Wheels	Solid rubber twin wheels 5.00-8 with reinforced rims (thickness 5 mm), stepless height-adjustable		
Driving Speed	Up to 40 km/h		
Standard equipment	Lighting system according to the road traffic regulations (StVZO); hydraulic swivel device incl. adjustable restrictor (20° to the left/right); protective cover (3-layer rubber fabric, thickness 8 mm); further equipment optionally available		
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)			

FEATURES IN DETAIL



Cartridge system with brush elements



Gearbox (on the side)



Sturdy twin wheels 5.00-8 with reinforced rims (5 mm)



bema Jumbo Airport

MASTERING LARGE AREAS IN WINTER

Tremendous cleaning performance due to the main brush of 920 mm

At the airport, in order that ongoing operations are not interrupted, large areas have to be cleaned in the shortest possible time, especially in winter. The bema Jumbo Airport is specially designed for the tough conditions at the airport and sweeps large areas with pinpoint accuracy, e.g. aprons with taxiways and parking areas.

FEATURES

- ✓ **An uncomplicated and time-saving exchange of the brush elements as a result of the cartridge system:**
The PPN main brush consists of individual brush elements on a special aluminium profile carrier tube. This can be easily exchanged. It is not necessary to dismantle the whole main brush.
- ✓ **The Jumbo Airport already comes with extensive equipment:**
Mechanical drive via a duplex chain (low-maintenance), lighting system according to the road traffic regulations (StVZO), hydraulic swivel device incl. adjustable restrictor and a protective cover.
- ✓ **High performance machinery for deployment in a hard winter:**
High driving speed of up to 20 km/h is possible.
- ✓ **Robust and stable construction:**
Only high-quality components are used.
- ✓ **An inexpensive alternative to the turbo version.**

CARRIER VEHICLE



Tractor
rear

EQUIPMENT



Mechanical drive
via drive with duplex chain



Hydraulic swivel device
20° to the left/right
incl. adjustable restrictor

OPTIONAL EQUIPMENT



bema Control
from 3 functions available



bema Jumbo Airport at tractor rear, special construction with hydraulic support wheel adjustment



bema Jumbo Airport, special painting



bema Jumbo Airport - stepless height adjustment wheels



Sturdy super-elastic solid rubber wheels Ø 446 x 122 mm with reinforced rim (4 mm)

TECHNICAL DATA

Machine type	bema Jumbo Airport	
Working width	2750 mm	3000 mm
Drive	Mechanical drive by duplex chain, low-maintenance, drive shaft incl. overrunning clutch	
Minimum engine power of the carrier vehicle	120 PS	
Weight incl. protection plate (approx.)	1100 kg	1200 kg
Main brush Ø 920 mm	Cassette system of individual PPN brush elements, fitted on a stable and special constructed support tube made of aluminium profile (Special construction developed for bema)	
Brush speed	Maximum 250 rpm	
Wheels	Super-elastic solid rubber wheels Ø 446 x 122 mm, reinforced rim (4 mm), stepless height-adjustable	
Driving Speed	Up to 20 km/h	
Standard equipment	Lighting system according to the road traffic regulations (StVZO); hydraulic swivel device incl. adjustable restrictor (20° to the left/right); protective cover; further equipment optionally available	
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)		

FEATURES IN DETAIL



Cartridge system with brush elements



Chain box (at the side)



Mechanical drive via duplex chain



bema 3 Airport

CONVINCING IN WINTER SERVICE

Most cost-efficient entry-level solution for airport winter service

The bema 3 Airport is a high performance machine which is optimised for use in hard winters at the airport. Equipped with a special main brush for snow, the bema 3 Airport clears aprons, paths and parking areas. Due to the spiral arrangement of the bristles, large quantities of snow are swept without the snow sticking in the gaps.

FEATURES

- ✓ **A high performance machine with tremendous cleaning performance optimal for heavy duty winter service:**
High driving speed of up to 20 km/h is possible.
With a main brush diameter of 660 mm and a high rotational speed of 290 rpm large areas can be quickly cleared of snow.
- ✓ **Powerful and low-maintenance:**
Depending on the working width, mechanical drive on one or both sides via a chain drive. Optional hydraulic drive.
- ✓ **The bema 3 Airport already comes with extensive equipment:**
Hydraulic swivelling device incl. adjustable restrictor and a protective cover. Further equipment components can be optionally upgraded.
- ✓ **Very high load capacity:**
Super-elastic wheels Ø 415 x 100 mm.
- ✓ **Robust and stable construction:**
High-quality components are exclusively used.

CARRIER VEHICLES



Tractor
rear



Unimog truck
front

EQUIPMENT



Mechanical drive
incl. drive shaft,
laterally mounted chain drive



Hydraulic swivel device
20° to the left/right
incl. adjustable restrictor

OPTIONAL EQUIPMENT



bema Control
from 3 functions available



bema 3 Airport, Unimog truck attachment



bema 3 Airport with a protective cover (standard)



bema 3 Airport in special painting



In use at the airport: bema 3 Airport on a Unimog truck

TECHNICAL DATA

Machine type	bema 3 Airport		
Working width	3050 mm	3550 mm	4550 mm
Drive	One-sided mechanical chain drive incl. drive shaft or hydraulic drive		Double-sided mechanical chain drive incl. drive shaft or hydraulic drive
Minimum engine power of the carrier vehicle	100 PS		150 PS
Weight incl. protection plate (approx.)	890 kg	1000 kg	1290 kg
Main brush Ø 660 mm	Snow brush PPN		
Brush speed	Maximum 290 rpm		
Wheels	Super-elastic wheels Ø 415 x 100 mm, cast rim with tilted roller bearings (wheel bearings), optional stepless height-adjustable		
Driving speed	Up to 20 km/h		
Standard equipment	Hydraulic swivel device incl. adjustable restrictor (20° to the left/right); protective cover; further equipment optionally available		
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)			

FEATURES IN DETAIL



Precisely fitting attachment, tractor rear



Sturdy wheels Ø 415 x 100 mm, cast rim with a wheel bearing



Main brush for snow (spiral trim)



bema Snow-Combi

AN EFFECTIVE COMBINATION

Black clearance winter and year-round use is possible

Black clearance refers to a method used by winter services: Here, roads and pavements are cleared so that they are only passable to a limited extent due to snow or ice. The roadway is initially cleared to a limited extent with the snow plough and then detail cleaned with the sweeper. The black tarmac surface is then visible again.

FEATURES

- ✓ **Effective results in one work step - black clearance:**
Snow plough for coarse clearing (3550 mm working width) and a sweeper for fine sweeping (2850 mm working width) used in combination.
- ✓ **Convincing performance all year round:**
The snow plough can be raised or removed quickly and easily. As such, the sweeper can be used for year-round cleaning tasks.
- ✓ **Tremendous cleaning performance across the entire working width:**
Thanks to the large snow brush diameter of 660 mm and the special swivel control of the snow plough, the entire track of the sweeper will always be cleared.
- ✓ **Clear view ahead, even in the event of powder snow and optimally protected in the case of uneven surfaces:**
An additional guard against snow dust prevents a bad view ahead in the event of powder snow. The snow plough is optimally guided as a result of the spring flap segments.

CARRIER VEHICLES



Tractor
front



Unimog truck

EQUIPMENT



Mechanical drive
incl. drive shaft,
laterally mounted chain drive



Hydraulic swivel device
20° to the left/right
incl. adjustable restrictor

OPTIONAL EQUIPMENT



bema Control
from 3 functions available



bema Snow-Combi, tractor attachment (three point linkage)



bema Snow-Combi with Unimog attachment



bema Snow-Combi on a tractor with an optimal guard against powder snow



bema Snow-Combi with lifted snow plough - free sweeping

TECHNICAL DATA

Machine type	bema Snow-Combi
Working width snow plough	3550 mm
Working width sweeper	2850 mm
Drive	One-sided mechanical chain drive incl. drive shaft or hydraulic drive with two powerful Gerotormotors with drive shaft Ø 32 mm (heavy series)
Snow plough version	Snow plough with spring flap segments, hydraulically liftable or easy dismantling
Main brush Ø 660 mm	Snow brush PPN (no PVC, spiral brush)
Brush speed	Maximum 290 rpm
Weight basic version (approx.)	800 kg
Wheels	Super-elastic wheels Ø 360 x 85 mm with cast rim, stepless height-adjustable
Standard equipment	Hydraulic swivel device incl. adjustable restrictor (20° to the left/right)
Optional equipment	Snow dust protector
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)	

FEATURES IN DETAIL



Adjustable restrictor & quantity divider (even lifting of the snow plough)



Stop valve for locking the lifted snow plough



Sturdy wheels - adjustment via crank



bema 11 Multi-Clean

MULTIFUNCTIONAL USE

Pushes silage, snow, mud, dirt, grit, corn and more

The bema 11 Multi-Clean push broom can be used multifunctionally and is extremely high-quality and robust. The 11 rows of bristles sweep both loose and stuck dirt. The bema 11 Multi-Clean block broom is also ideal for sweeping gravel or sand. The attaching and detaching of the push broom is easy, convenient and quick.

FEATURES

- ✓ **Strong cleaning performance for coarse and fine dirt:**
11 rows of PPN bristles with a height of 280 mm.
3 versions available: fine bristles, coarse bristles or fine & coarse bristles mixed.
- ✓ **Convenient handling & maintenance-free:**
Attachment and removal to the carrier vehicle takes place quickly and conveniently. Only two screws need to be loosened in order to replace individual rows of bristles. Very good self-cleaning as a result of the pendulum suspension of each row.
- ✓ **Robust construction for a long operating time:**
Very stable and torsion-resistant design. Supporting legs are optionally available.
- ✓ **Versatile use:**
Suitable for a wide variety of dirt and tasks, e.g. dirt, mud, chippings, corn, silage, for sweeping gravel/sand or for sweeping snow.

CARRIER VEHICLES

-  Wheel loader
up to 7 t
-  Telehandler
-  Yard loader
-  Forklift
pallet for attachment (standard)
-  Tractor
front
-  Compact tractor
front
-  Excavator
grabbing shovel attachment



Sweeping in sand or sweeping mud are no problem with the bema 11 Multi-Clean



The push broom convinces with 11 rows of bristles



Use in winter service: bema 11 Multi-Clean on a wheel loader



Pushing silage with the bema 11 Multi-Clean

TECHNICAL DATA

Machine type	bema 11 Multi-Clean			
Working width	1500 mm	2000 mm	2500 mm	3000 mm
Weight basic machine (approx.)	120 kg	150 kg	180 kg	205 kg
Bristle height	280 mm			
Pocket size	180 x 80 mm (pallet for attachment)			
Bristle	<p>11 bristle rows PPN (no PVC), 3 versions available:</p> <p><u>Fine & coarse bristles mixed</u> Standard bristle type, for all circumstances like corn, silage, grain, snow</p> <p><u>Only fine bristles</u> Cleaning of minor soiling, brushing of sand at pavement work</p> <p><u>Only coarse bristles</u> Sweeping of heavy materials like gravel, sand, mud, grid</p>			
Further details	<p>Three-point linkage for tractor Cat. I/II, shovel attachment incl. clamp screws, quick change adaptor as light weight equipment for yard and small loaders, quick change adaptor for skid-steer loaders and wheel loaders, combi plate three-point linkage Cat. II or other, grabbing shovel adaptor</p>			
Optional equipment	Set of supporting legs with holder (3 pieces)			

Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)

FEATURES IN DETAIL



Quick change adaptor for front loaders (Euronorm)



Shovel mounting incl. clamping screws



Pallet mounting with a tool-free locking



bema Groby

EXTREMELY ROBUST CONSTRUCTION

A convenient solution for larger carrier vehicles








The bema Groby is not only used for the care of road sides, but also for the environmentally friendly removal of weeds. For this purpose, bema Groby is equipped with plastic-coated steel ropes. This ensures a high load-bearing capacity and optimum cleaning results.

Various optional plate brushes and attachments allow the bema Groby to be used flexibly in order to meet a wide range of challenges.


FEATURES

- ✓ **Easy and convenient handling:**
Engineered for a quick use e. g. in local councils, agriculture or road construction. Time-saving attachment to various carrier vehicles.
- ✓ **Versatile use:**
The bema Groby can be driven hydraulically or optionally mechanically. Besides that the incline of the brush head can also be adjusted mechanically or optionally hydraulically.
- ✓ **Very robust design for a long service life:**
Extremely solid construction using high quality components.
- ✓ **Flexible in use:**
The different plate brushes allow a versatile use against stubborn weeds, coarse dirt or the maintenance of road sides.

CARRIER VEHICLES

-  Wheel loader
up to 7 t
-  Telehandler
-  Yard loader
-  Forklift
standard
-  Municipal vehicle
-  Tractor
front
-  Excavator

OPTIONAL EQUIPMENT

-  Mechanical drive
incl. drive shaft
-  bema Control
from 3 functions available



bema Groby is used on a wheel loader for the most diverse tasks



bema Groby used in a stable for sweeping up feed (PPN brush)






bema Groby with a forklift attachment



bema Groby optional with an excavator mounting

TECHNICAL DATA

Machine type	bema Groby	
Drive	Hydraulic drive with powerful Gerotormotor with drive shaft Ø 32 mm and overpressure valve. Optional mechanical incl. drive shaft	
Rotation speed plate brush	Recommended 140 to 200 rpm	
Driving speed	Recommended 1 to 6 km/h	
Minimum hydraulic power of the carrier vehicle	40 l/min	
Weight basic machine (approx.)	145 kg without plate brush (weight varies depending on the kind of brush), 215 kg plate brush with steel ropes	
Plate brushes	Application	Image
44 screwable steel rope plaits Ø 22 mm, steel plate, working diameter 780 mm	Environmentally friendly weed removal, banquet care on road construction	
Steel flat wire/PPN mixed brush, plastic plate, working diameter 1100 mm	Outdoor cleaning, coarse/solid dirt	
PPN, plastic plate, working diameter 1100 mm	Minor soiling, sweeping of fodder to animals	
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)		

FEATURES IN DETAIL



Mechanical inclination adjustment



Mechanical drive



bema Groby on an excavator / protection cover



bema Groby light

EFFECTIVE AND FLEXIBLE IN USE

Compact version for smaller carrier vehicles

The bema Groby light is a lighter, but very sturdy version of the bema Groby which is optimally designed for use on small carrier vehicles. No matter which carrier vehicle is used, the bema Groby light provides environmentally friendly basic cleaning and effectively removes annoying weeds. For this purpose, the plastic plate is equipped with plastic-coated, steel flat wire tufts, which also remove weeds from gutters and joints, even in hard-to-reach places. Thanks to different optional plate brushes the bema Groby light can be used in a variety of ways.

FEATURES

- ✓ **Easy to use:**
Variably adjustable working range by means of an optional swivel element (hydraulic/mechanical).
- ✓ **Upgradable with the bema PowerPack - hydraulic power unit:**
For carrier vehicles that lack hydraulic power for the attachment. Simple and convenient via the 3-point mounting at the rear of the carrier vehicle. The bema PowerPack consists of a 40 l oil tank incl. a level indicator and a power take-off shaft / slip-on pump.
- ✓ **Versatile use:**
The bema Groby can be driven hydraulically or optionally mechanically.
- ✓ **Convenient as a result of the bema Control:**
Optional control unit with wireless remote controller for controlling the electrical and hydraulic functions.

CARRIER VEHICLES



Yard loader



Municipal vehicle



Compact tractor
front/rear



Forklift



Mini-excavator



Front mower

OPTIONAL EQUIPMENT



Mechanical drive
incl. drive shaft



Hydraulic swivel device
approx 85° to the left



bema PowerPack
hydraulic power unit



Lateral movement
300 mm telescopic



bema Control
from 3 functions available



bema Groby light, support wheel Ø 200 x 80 mm (height adjustable)



bema Groby light on a equipment carrier




Flexible thanks to the telescopic lateral movement (300 mm)



bema Groby light, rear mounted (three point linkage)

TECHNICAL DATA

Machine type	bema Groby light	
Drive	Hydraulic drive with powerful Gerotormotor with drive shaft Ø 32 mm. Optional mechanical via drive shaft	
Rotation speed plate brush	Recommended 140 to 200 rpm	
Driving speed	Recommended 1 to 6 km/h	
Minimum hydraulic power of the carrier vehicle	20 l/min	
Weight basic machine (approx.)	100 kg without plate brush (weight varies depending on the kind of brush), 160 kg plate brush with steel flat wire bundles	
Plate brushes	Application	Image
76 steel flat wire bundles, plastic plate working diameter 700 mm	Environmentally friendly weed removal	
Steel flat wire/PPN mixed brush, plastic plate, working diameter 780 mm	Outdoor cleaning, coarse / solid dirt	
PPN, plastic plate, working diameter 780 mm	Minor soiling, sweeping of fodder to animals	
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)		

FEATURES IN DETAIL



bema PowerPack - hydraulic power unit



Speed control of the plate brush



Hydraulic swivel device



bema Suction sweeper

AN OUTSTANDING SOLUTION

Much more than just removing leaves




At the demopark 2019 fair, the bema Suction sweeper that forms the heart of the bema Suction sweeping system was awarded with the silver medal as a technical innovation. In combination with the bema chaff blower, the new bema tipping container as well as in combination with existing third-party systems, a large variety of variants can be realized.

No matter whether leaves, green cuttings, party waste, straw, sawdust or other garbage, every combination provides convincing cleaning results.





FEATURES

- ✓ **Convincing cleaning results:**
The fully-fledged main brush Ø 200 mm ensures that firmly stuck leaves and dirt are loosened from the ground before being sucked up.
- ✓ **Variable in use:**
The bema Suction sweeper is available with or without chaff blower (front mounting), as well as a complete rear unit combined with chaff blower and the new bema tipping container.
- ✓ **Persuading performance on various surfaces:**
Guide wheels and the main brush are height-adjustable for optimum use on different grounds, e.g. sports fields, parks, water-bound paths, sealed surfaces.
- ✓ **New and innovative:**
The bema Suction sweeper was awarded with the silver medal as a technical innovation at demopark fair 2019.

CARRIER VEHICLES

-  Yard loader
-  Municipal vehicle
-  Compact tractor

OPTIONAL EQUIPMENT

-  Mechanical drive main brush (not applicable with mechanically driven chaff blower)
-  Rotary side brushes with bema SideControl
-  bema Control from 3 functions available
-  Chaff blower hydraulically or mechanically driven



bema Suction sweeper as front mount with/without chaff blower in combination with an existing suction container or collection trailer in the rear (third-party systems)



Much more than just removing leaves like party waste



Green cuttings - no problem for the bema Suction sweeper



The bema Suction sweeper convinces on all surfaces like grass/artificial grass

TECHNICAL DATA

Machine type	bema Suction sweeper
Working width	1200 mm; with two rotary side brushes extendable to 1800 mm
Drive of main brush	Hydraulic via chain, powerful Gerotormotor with drive shaft \varnothing 25 mm, completely internal (heavy series, industrial quality). Optional mechanical drive of the main brush (not applicable with mechanically driven chaff blower)
Minimum hydraulic power of the carrier vehicle	20 l/min bema Suction sweeper without chaff blower, 30 l/min bema Suction sweeper with two rotary side brushes, 50 l/min bema Suction sweeper with chaff blower and rotary side brushes
Weight (approx.)	140 kg without chaff blower / 200 kg with chaff blower
Main brush \varnothing 200 mm	PPN, V-shaped arrangement, stepless adjustable
Brush speed	Recommended 100 to 150 rpm
Downholder roller \varnothing 140 mm	Pendulum suspension, enables trouble-free collection
Wheels	Heavy-duty rear wheels \varnothing 200 x 50 mm and front wheel \varnothing 250 x 50 mm (height-adjustable, railsafe). Optional Super-elastic rear wheels \varnothing 200 x 80 mm and front wheel \varnothing 250 x 80 mm
Rotary side brushes \varnothing 600 mm (optional equipment)	Hydraulic drive including bema SideControl (comfort operation, combines 3-way valve and speed controller), rotary side brushes are available for the right and/or left side. Selectable brushes: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed trim
Chaff blower (optional equipment)	Turbine casing \varnothing 450 mm mountable on different positions, ejection nozzle and connecting hose \varnothing 200 mm including two hose clamps, speed of chaff blower 3500 rpm, optional with wearing steel plate, hydraulic drive using an orbital engine or optional mechanical drive incl. drive shaft (carrier vehicle: at least 22 KW/30 PS)
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)	

FEATURES IN DETAIL



bema Suction sweeper drive via front power take-off (optionally available)



Trouble-free feed by pendulum mounted downholder roller (feed roller)



bema SideControl for rotary side brushes



NEW

bema Tipping container



MULTIPLE COMBINATION

Creates the best possible working conditions

As a part of the bema Suction sweeping system the bema Tipping container was also awarded with the silver medal as a technical innovation by the demopark expert jury in autumn 2021. Thanks to the mounting via three-point linkage, the rear container is quickly ready for use for a wide variety of tasks. In combination with the bema Suction sweeper and the chaff blower many combinations are possible: From an independent trailer to the compact rear unit. Existing third-party systems such as mowers can also be combined.

CARRIER VEHICLES



Municipal vehicle
rear



Tractor
rear



Compact tractor
rear

FEATURES

- ✓ **Quickly ready:**
Three-point linkage Cat. I/II (rear mount).
- ✓ **Optimum working conditions:**
Convenient elevated emptying with a dumping height of 1500 mm and a container capacity of 1350 litres. Another collection unit can be attached by the optional hitch.
- ✓ **Convincing on all surfaces:**
Pneumatic-tired wheels Ø 310 x 115 mm.
- ✓ **Rugged design and safety according to road traffic regulations:**
Material GRP (glass fibre reinforced plastic), as a standard with lighting and license plate holder.
- ✓ **Outstanding solution:**
As part of the bema suction weeping system, the bema Tipping container was also awarded with the silver medal in autumn 2021.



Complete rear unit in combination with bema Groby light in front (effective weed removal, see page 40/41)



bema Suction sweeper including chaff blower and in the rear the new bema Tipping container



Complete rear unit consisting of bema Suction sweeper, chaff blower and bema Tipping container



The complete rear unit is quickly ready-mounted with three-point linkage Cat. I/II

TECHNICAL DATA

Machine type	bema Tipping container
Working width	1200 mm
Attachment systems	Rear mount, three-point linkage Cat. I/II.
Material	GRP (glass fibre reinforced plastic)
Container capacity (approx.)	1350 litres
Container emptying (Convenient elevated emptying)	At least one double-acting control circuit is required for the hydraulic emptying of the container, dumping height approx. 1500 mm, connection nozzle Ø 200 mm
Wheels	Pneumatic-tired wheels Ø 310 x 115 mm
Standard equipment	Lighting and license plate holder according to road traffic regulations (StVZO)
Optional equipment	Hitch for another trailer, combination of straight drawbar/ball head Ø 50 mm, 12 volts socket
Combination possibilities (within the bema Suction sweeping system, third-party systems can also be combined)	<p>Option 1: bema Tipping container as independent trailer in the rear (Optionally with bema Suction sweeper including chaff blower in front mounting)</p> <p>Option 2: bema Tipping container in combination with chaff blower in the rear (Optionally with bema Suction sweeper in front mounting or with an hand suction nozzle)</p> <p>Option 3: bema Tipping container as complete rear unit with bema Suction sweeper and chaff blower (Optionally with other bema products in front mounting like a sweeper or bema Groby light)</p>
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)	

FEATURES IM DETAIL



As a standard with lighting and license plate holder



Convenient elevated emptying



Optionally with hitch for another trailer



bema Snow plough series 1100

RELENTLESSLY AGAINST SNOW & FROST

The large blade with maximum clearance performance

The bema Snow ploughs were developed for use on a wide variety of carrier vehicles. Through optimum adaptation to the ground, low-wear polyurethane clearing blades ensure that the snow is cleared without damaging the pavement. The stability of the snow plough is achieved by lateral and upper edges on the body of the plough. The individual selection of basic equipment provides greater flexibility.

FEATURES

- ✓ **Full flexibility that can be upgraded at any time:**
The **basic version** consists of a basic clearing blade in a torsion-resistant steel design with a particularly strong polyurethane trim. For greater flexibility, the equipment can be upgraded as required:
Version 1 - spring flap segments and wheels
Version 2 - spring flap segments and skid plates
- ✓ **Protection against damage:**
The elastic edge protection prevents damage to kerbstones and building boundaries.
- ✓ **Robust construction for a long-term use:**
Stability due to lateral and upper edges on the body of the blade, torsion-resistant design.
- ✓ **Convenient clearing adjustment and optimum ground following:**
Mechanical or optional hydraulic swivel device via two stable hydraulic cylinders. The roller level compensation with height control indicator „bema-Meter“ and the infinitely variable adjustment of the wheels/skids guarantee precise clearing results.

CARRIER VEHICLES



Wheel loader
up to 12 t



Telehandler



Unimog truck



Forklift



Tractor
front

OPTIONAL EQUIPMENT



Hydraulic swivel device
approx 30° via two cylinders,
overload protection



bema Snow plough series 1100, telehandler attachment (quick change adapter)



Snow clearing with bema Snow plough series 1100



bema Snow plough series 1100, tractor (front)



bema Snow plough series 1100, wheel loader attachment (quick-change mounting)

TECHNICAL DATA

Machine type	bema Snow plough series 1100				
Working width	2250 mm	2500 mm	2750 mm	3000 mm	3500 mm
Clearing width (about all)	2275 mm	2520 mm	2765 mm	3010 mm	3510 mm
Clearing width (swivelled at 30°)	1970 mm	2180 mm	2395 mm	2610 mm	3035 mm
Standard height / depth (total)	1000 mm / 900 mm				
Swivel device	Mechanical, optional hydraulic with/without overload protection				
Basic version - Clearing blade with polyurethane trim					
Description basic version	Clearing blade with polyurethane trim 50 x 200 mm (depth x height, one segment)				
Weight basic version (approx.)	370 kg	390 kg	410 kg	435 kg	500 kg
Version 1 - Spring flap segments with polyurethane trim and wheels					
Description version 1	Spring flap segments with polyurethane trim 20 x 150 mm (depth x height, separate segments), optional rubber blade with corundum; stepless height-adjustable super-elastic wheels Ø 200 x 80 mm or Ø 250 x 80 mm				
Weight version 1 (approx.)	445 kg	465 kg	490 kg	510 kg	575 kg
Version 2 - Spring flap segments with polyurethane trim and skid plates					
Description version 2	Spring flap segments with polyurethane trim 20 x 150 mm (depth x height, separate segments), optional rubber blade with corundum; stepless height-adjustable skid plates Ø 230 mm				
Weight version 2 (approx.)	400 kg	425 kg	445 kg	470 kg	530 kg
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)					

FEATURES IN DETAIL



Basic version - clearing blade with polyurethane trim



Version 1: Spring flaps & wheels



Version 2: Spring flaps & skid plates



bema Snow plough series 700

CONVINCING IN WINTER SERVICE

The middle blade in six working widths

The bema Snow ploughs were developed for use on a wide variety of carrier vehicles. Through optimum adaptation to the ground, low-wear polyurethane clearing blades ensure that the snow is cleared without damaging the pavement. The stability of the snow plough is achieved by lateral and upper edges on the body of the plough. The individual selection of basic equipment provides greater flexibility.

FEATURES

- ✓ **Full flexibility that can be upgraded at any time:**
The **basic version** consists of a basic clearing blade in a torsion-resistant steel design with a particularly strong polyurethane trim. For greater flexibility, the equipment can be upgraded as required:
Version 1 - spring flap segments and wheels
Version 2 - spring flap segments and skid plates
- ✓ **Protection against damage:**
The elastic edge protection prevents damage to kerbstones and building boundaries.
- ✓ **Robust construction for a long-term use:**
Stability due to lateral and upper edges on the body of the blade, torsion-resistant design.
- ✓ **Convenient clearing adjustment and optimum ground following:**
Mechanical or optional hydraulic swivel device via two stable hydraulic cylinders. The roller level compensation with height control indicator „bema-Meter“ and the infinitely variable adjustment of the wheels/skids guarantee precise clearing results.

CARRIER VEHICLES



Wheel loader
up to 7 t



Yard loader



Municipal vehicle



Forklift



Tractor
front



Compact tractor
front

OPTIONAL EQUIPMENT



Hydraulic swivel device
approx 30° via two cylinders,
overload protection



bema Snow plough series 700 - torsion-resistant steel design



bema Snow plough series 700, tractor (three-point linkage)



bema Snow plough series 700, forklift attachment



bema Snow plough series 700 with lifting device for winter service plate

TECHNICAL DATA

Machine type	bema Snow plough series 700					
Working width	1300 mm	1550 mm	1800 mm	2050 mm	2300 mm	2550 mm
Clearing width (about all)	1290 mm	1535 mm	1780 mm	2025 mm	2270 mm	2520 mm
Clearing width (swivelled at 30°)	1115 mm	1330 mm	1540 mm	1750 mm	1965 mm	2180 mm
Standard height / depth (total)	710 mm / 727 mm				710 mm / 735 mm	
Swivel device	Mechanical, optional hydraulic with/without overload protection					
Basic version - Clearing blade with polyurethane trim						
Description basic version	Clearing blade with polyurethane trim 30 x 200 mm (depth x height, one segment)					
Weight basic version (approx.)	120 kg	130 kg	140 kg	150 kg	185 kg	195 kg
Version 1 - Spring flap segments with polyurethane trim and wheels						
Description version 1	Spring flap segments with polyurethane trim 20 x 150 mm (depth x height, separate segments), optional rubber blade with corundum; stepless height-adjustable standard wheels Ø 200 x 50 mm or heavy-duty wheels Ø 200 x 50 mm					
Weight version 1 (approx.)	165 kg	180 kg	190 kg	200 kg	235 kg	245 kg
Version 2 - Spring flap segments with polyurethane trim and skid plates						
Description version 2	Spring flap segments with polyurethane trim 20 x 150 mm (depth x height, separate segments), optional rubber blade with corundum; stepless height-adjustable skid plates Ø 180 mm					
Weight version 2 (approx.)	140 kg	150 kg	160 kg	170 kg	205 kg	220 kg
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)						

FEATURES IN DETAIL



Height control indicator „bema-Meter“



Version 1: Spring flaps & wheels



Version 2: Spring flaps & skid plates



bema Snow plough series 550

RAPID CLEARING OF SNOW

The lightweight for the smallest carrier vehicles

The snow ploughs of the series 550 are the smallest models in the bema range with a blade height of 550 mm. The low weight and the close attachment to the carrier vehicle enable the use on yard loaders, compact tractors as well as on front mowers. The snow plough is also available in the basic version with a wide polyurethane trim and can be upgraded as required.

FEATURES

- ✓ **Full flexibility that can be upgraded at any time:**
The **basic version** consists of a basic clearing blade in a torsion-resistant steel design with a particularly strong polyurethane trim. For greater flexibility, the equipment can be upgraded as required:
Version 1 - spring flap segments and wheels
Version 2 - spring flap segments and skid plates
- ✓ **Protection against damage:**
The elastic edge protection prevents damage to kerbstones and building boundaries.
- ✓ **Robust construction for a long-term use:**
Stability due to lateral and upper edges on the body of the blade, torsion-resistant design.
- ✓ **Convenient clearing adjustment and optimum ground following:**
Mechanical or optional hydraulic swivel device via two stable hydraulic cylinders. The level compensation and the infinitely variable adjustment of the wheels/skids guarantee precise clearing results.

CARRIER VEHICLES



Yard loader



Compact tractor front



Municipal vehicle



Front mower

OPTIONAL EQUIPMENT



Hydraulic swivel device
approx 30° via two cylinders,
overload protection



bema Snow plough series 550, compact tractor attachment



bema Snow plough series 550, front mower attachment



bema Snow plough series 550, compact tractor attachment



bema Snow plough series 550, mechanical angle adjustment

TECHNICAL DATA

Machine type	bema Snow plough series 550		
Working width	1300 mm	1550 mm	1800 mm
Clearing width (about all)	1290 mm	1535 mm	1780 mm
Clearing width (swivelled at 30°)	1115 mm	1330 mm	1540 mm
Standard height / depth (total)	550 mm / 416 mm		
Swivel device	Mechanical, optional hydraulic with/without overload protection		
Basic version - Clearing blade with polyurethane trim			
Description basic version	Clearing blade with polyurethane trim 20 x 150 mm (depth x height, one segment)		
Weight basic version (approx.)	70 kg	80 kg	90 kg
Version 1 - Spring flap segments with polyurethane trim and wheels			
Description version 1	Spring flap segments with polyurethane trim 20 x 150 mm (depth x height, separate segments); stepless height-adjustable heavy-load wheel Ø 160 x 50 mm		
Weight version 1 (approx.)	95 kg	105 kg	110 kg
Version 2 - Spring flap segments with polyurethane trim and skid plates			
Description version 2	Spring flap segments with polyurethane trim 20 x 150 mm (depth x height, separate segments); stepless height-adjustable skid plates Ø 160 mm		
Weight version 2 (approx.)	90 kg	100 kg	105 kg
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)			

FEATURES IN DETAIL



Basic version - clearing blade with polyurethane trim



Version 1: Spring flaps & wheels



Version 2: Spring flaps & skid plates



bema V-plough V800

FLEXIBLE CLEARANCE OF SNOW

Three setting variants combined in one blade

The bema V-plough V800 can be variably adjusted to different positions. In a V-shape it allows the masses of snow to be cleared evenly on both sides. The snow can be distributed to the right or to the left in a straight position. If the flexible blade is opened to the front (Y-position), large quantities of snow can be pushed to form a heap.

FEATURES

- ✓ **Effective and obstacle-free snow guidance:**
Spring flap segments and polyurethane trim 20 x 150 mm.
- ✓ **Reliable collision protection by professional overload protection and a pressure relief valve:**
In each case, both bodies of the blade are separately protected via a double acting pressure relief valve.
- ✓ **Easy angle adjustment by hydraulic swivel device:**
Swiveling by +/- 30° with two stable hydraulic cylinders.
- ✓ **Protects curbs and building boundaries:**
The elastic edge protection prevents damage.
- ✓ **Comfort control unit and optimum ground following:**
Simultaneous swivelling of the blade from Y-shape to V-shape as well as simultaneous swivelling from left to right. The roller level compensation with height control indicator „bema-Meter“ and the infinitely variable adjustment of the wheels guarantee precise clearing results.

CARRIER VEHICLES

-  Wheel loader
up to 7 t
-  Telehandler
-  Yard loader
-  Unimog truck
-  Municipal vehicle
-  Forklift
-  Tractor
front
-  Compact tractor
front

BASIC EQUIPMENT

-  Hydraulic swivel device
approx 30° via two cylinder

OPTIONAL EQUIPMENT

- ✓ Professional overload protection
incl. pressure relief valves
- ✓ Comfort control unit
incl. overload protection



bema V-plough V800 mounted on a municipal vehicle



bema V-plough V800 in V-position



bema V-plough V800 in a straight, swivelled position



bema V-plough V800 in Y-position

TECHNICAL DATA

Machine type	bema V-plough V800					
Working width	1600 mm	1850 mm	2100 mm	2350 mm	2600 mm	3000 mm
Clearing width (about all)	1630 mm	1860 mm	2120 mm	2380 mm	2640 mm	3080 mm
Clearing width (30° swivelled)	1426 mm	1630 mm	1855 mm	2080 mm	2280 mm	2684 mm
Working width (V-/Y- position)	1426 mm	1630 mm	1855 mm	2080 mm	2280 mm	2684 mm
Blade height centre / blade height side	715 mm / 815 mm	715 mm / 835 mm	715 mm / 855 mm	715 mm / 875 mm	715 mm / 915 mm	715 mm / 922 mm
Weight basic machine (approx.)	250 kg	275 kg	300 kg	325 kg	350 kg	390 kg
Wheels	Heavy-duty wheels Ø 200 x 50 mm (stepless height-adjustable by crank) or optional super-elastic wheels Ø 200 x 80 mm					
Polyurethane trim	V-Plough with spring flaps and polyurethane trim 20 x 150 mm (depth x height, separate segments)					
Swivelling system	Hydraulic, with 2 stable hydraulic cylinders and hydraulic connector SVK size 3 (double acting control circuit is necessary)					
Comfort control unit (optional equipment)	Simultaneous swivelling from Y-shape into V-shape as well as simultaneous swivelling from left to right, including overload protection (double acting control and 12/24 volts connection are necessary)					
Professional overload protection (optional equipment)	Professional overload protection with 2 double acting pressure limiting valves as a protection against collision					
Further attachments and equipment, as well as special constructions on request. Technical data and weight measurements are approximate and non-binding. Weight measurements without special equipment and attachment. Mistakes and errors reserved. © bema GmbH Maschinenfabrik (2023.01)						

FEATURES IN DETAIL



Quick change adapter, roller level compensation



Comfort control unit, pressure compensation



bema lifter for truck attachment



Main brushes & plate brushes

MULTIFUNCTIONAL USE

The right brush for every application

The sweeping result and the lifetime are influenced by the choice of the right brush. For this purpose, bema offers you one of the largest selection of main brushes, as well as plate and rotary side brushes. Our large warehouse guarantees you a quick supply. The different materials and bristle arrangements are always matched to the respective application.

In addition, the brushes can be easily changed. This allows you to use your bema sweeper all year round. From cleaning minor soiling and removing coarse dirt to winter service and environmentally friendly weed removal.

OVERVIEW OF BRUSH TYPES

	Rotary side brush	Main brush	Applications	Benefits	Comments
PPN full brush	✓	✓	Universally applicable for minor soiling like dust, sand, grit etc.	Good cleaning performance, can be used in stables	Conditionally suitable for coarse dirt
PPN spiral mixed brush Industrial brush of bema 40 Industry	✓	✓	Fine dust, smooth floor coverings, internal cleaning	A high centrifugal effect, good self-cleaning properties	Conditionally suitable for external cleaning
Snow brush (PPN)		✓	Snow and leaves, universally applicable for minor soiling	High centrifugal effect, optimal for free sweeping	Conditionally suitable for sweeping with collection container
Steel/PPN	✓	✓	Coarse and stubborn dirt	Aggressive cleaning performance	Unsuitable for fine dirt, not suitable for animal husbandry (not usable in stables), educed skid effect
Steel flat wire/ PPN	✓	✓		More aggressive cleaning performance	
Steel flat wire	✓			Most aggressive cleaning performance	
Weed	✓	✓	Removal of weed	Harder cleaning performance in the case of weeds	

Other brush versions and brush trims on request.
PPN = polypropylene (no PVC) / particularly wear-resistant and robust plastic



bema Weed brush

EFFECTIVE THROUGH AREA EFFICIENCY

Equipping sweepers for weed removal

The combination of sweeper and the bema Weed brush makes a second work step superfluous, as the weeds can be picked up directly by the optional collection container.

The drive is mechanical. A hydraulic drive is also possible under suitable conditions. The working width is between 1250 and 2300 mm depending on the model. In this way large areas are quickly and thoroughly cleared of weeds, moss and the like. The additional equipment of the sweeper with a rotary side brush with weed trim sweeps up weeds growing in gutters and on curbs.

OPTIONAL EQUIPMENT



bema 25 / bema 25 Dual

Ø 560 mm steel flat wire retrofittable main brush



bema 20 / bema 20 Dual

Ø 510 mm steel flat wire retrofittable main brush



bema Kommunal 580 Dual

Ø 560/510 mm steel flat wire retrofittable main brush

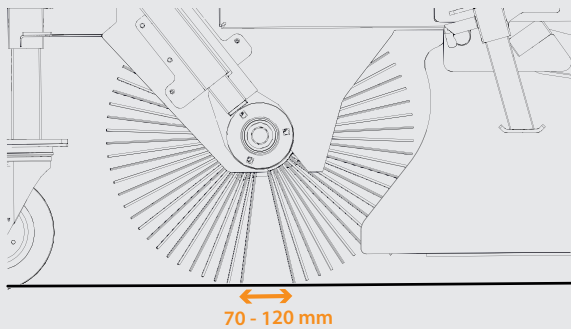


bema Kommunal 450 Dual

Ø 400 mm steel flat wire retrofittable main brush

OPTIMAL SWEEPING RESULTS

The lifetime of the brushes are influenced by many factors, such as the intensity of use, the surface to be swept, the degree of soiling and the contact pressure.



To get a perfect result, the operator has to pay attention to the correct brush speed and to the correct sweeping pattern (contact pressure of the main brush).

If the pressure is too high, the sweeping result will be much worse and the bristles will wear out.

Depending on the main brush diameter the sweeping pattern should be approx. 70 bis 120 mm. In general, the larger the main brush diameter, the larger is also the sweeping pattern.

BRUSHES IN DETAIL



Honeycomb brush rings (bema Jumbo, bema Titan)



Steel flat wire/PPN



Snow brush PPN (spiral trim)



Optional equipment

ROTARY SIDE BRUSHES

for cleaning building boundaries, curbs and gutters.

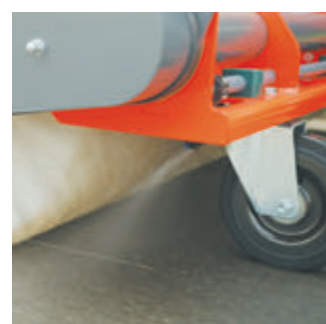
The rotary side brushes are hydraulically driven and are equipped with the bema SideControl as standard. This comfort operation device combines a three-way valve and a speed controller. This enables the rotary side brush to be switched on and the speed to be optimally set. Depending on the sweeper model, you can choose between the following trims: PPN, steel/PPN, steel flat wire/PPN, steel flat wire, weed brush. Rotary side brushes are available for the right and/or left side.



WATER SPRAY UNIT

for main brush and/or rotary side brushes

By bringing water directly into the main brush and/or the rotary side brushes (can be switched on/off), dust generation during sweeping is reduced. Depending on the sweeper model and the carrier vehicle, we offer water tanks on top of the machine or as rear attachment with a capacity of 100, 200, 240 or 400 litres (2 x 200 litres) including tank filter and 12 or 24 volts pressure pump.



DRIVES & PERFORMANCE

Hydraulic or mechanical drive

Our attachment products are multiply deployable. Depending on the sweeper model and carrier vehicle, we can optionally offer you a mechanical drive in addition to the hydraulic drive. We only use high-performance, low-maintenance Gerotor motors with drive shaft \varnothing 32 or \varnothing 25 mm. In the case of robust sweepers such as the PowerMaster models, the motors are also completely inside, so that they are protected from damage.

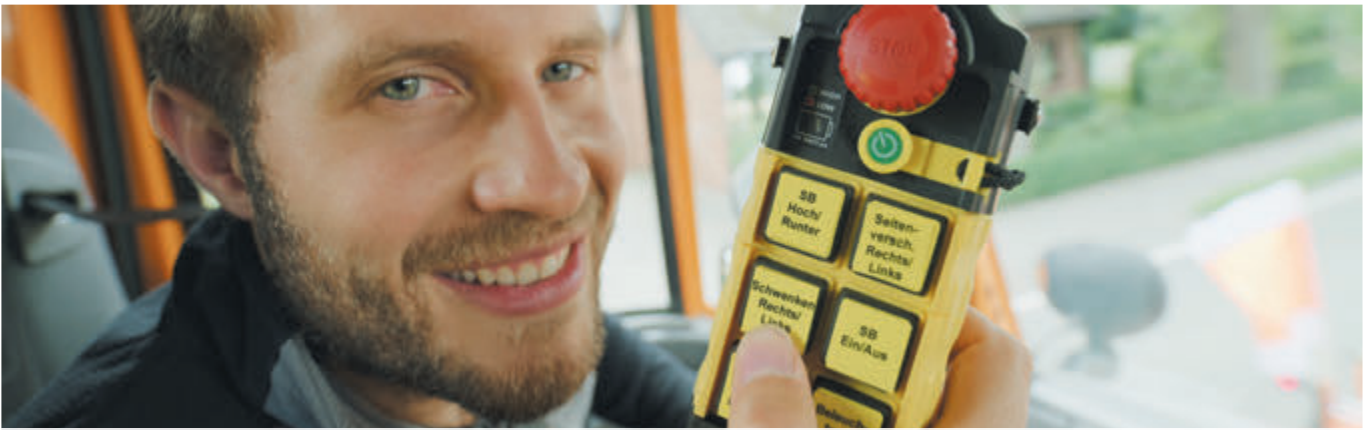
bema PowerPack

Hydraulic power unit for carrier vehicles with missing hydraulic power

The attachment takes place via the three-point mounting in the rear of your carrier vehicle. You can optionally combine a water tank and/or oil cooler.

The bema PowerPack is optionally available for: bema Kommunal 580/450 Dual, bema Groby light.





bema Control - control unit including wireless remote controller: All hydraulic and electrical functions can be conveniently controlled from the vehicle.

SWIVELING

Mechanical or hydraulic swivel devices

Almost all of our sweepers and snow ploughs are already equipped with a mechanical swivel device in the basic configuration. A hydraulic variant is optionally available.

- bema Groby light: **85° to the left**
- bema Sweepers: **20° to the left/right**
- bema Snow ploughs: **30° to the left/right**



MOVING

Hydraulic and telescopic lateral movement

For even more flexibility in sweeping tasks some of our attachments can be equipped with a lateral movement.

- bema Groby light
telescopic, 300 mm outwards
- bema 30/35 Dual PowerMaster
hydraulic, 500 mm to the left/right



CONVENIENCE & SAFETY

Collection container „Dual“

No changeover times

The collection container in Dual version enables easy switching between free sweeping (collection container open / dirt is swept to the side) or collecting dirt without changeover time. The collection container is emptied hydraulically.



Central control

Hydroblock / premium hydroblock

The heart of the PowerMaster sweepers is this central and reliable control in which all units are combined - named „Hydroblock“. The premium version offers even more protection with the flow control valve and load sensing system.





Optional equipment

WELL PREPARED

Avoid the risk of accidents and crop failures

During the harvest and at the beginning of autumn, the risk of accidents increases due to bad weather conditions and slippery roads.

Not only in agriculture, but also on construction sites, in gravel pits or on biogas plants, coarse and stubborn dirt can quickly become a major safety risk. Roads turn into dangerous slides, especially in combination with rain.

The polluter has the obligation to remove the contamination.

Wherever extreme performance is required, the **bema PowerMaster models** convince with precisely fitting special equipment!

SCRAPING

With the bema Scraper units, coarse and stubborn dirt is easily scraped off the roads. The scraper bar is divided into several Hardox segments, which are guided in an extremely stable way over the ground using hay-bob tines. We offer two versions for the PowerMaster models:

Version 1: Without collection container

Because the bema Scraper unit is mounted instead of the collection container, a good view is maintained from the vehicle.

Version 2: Including collection container

If you want to collect the scraped swept material in the same working step, you can also combine the collection container Dual with a bema Scraper unit. In combination with a certified camera system, your vehicle is roadworthy even with a front dimension of 3500 mm.



Version 1: Scraper unit without collection container

bema 75 Dual PowerMaster
bema 35 Dual PowerMaster
bema 30 Dual PowerMaster

Version 2: Scraper unit with collection container

bema 75 Dual PowerMaster
bema 35 Dual PowerMaster



bema Scraper unit with collection container in combination with bema High-pressure water unit and water tank (2000 litres in the rear)



bema Scraper unit without collection container



Scraper bar is divided into several Hardox segments



Scraping and rinsing with high-pressure

WITH HIGH-PRESSURE AGAINST DIRT

Powerful and thorough cleaning

Even more thorough cleaning of the surface is achieved in combination with on of our bema High-pressure water units. The High-pressure water units are available either as high-pressure or medium-pressure versions.

The large water tank with a capacity of 2000 litres provides the water supply from the rear. Alternatively, you can use your own water tank or a liquid manure tank.

For all **PowerMaster sweeper models** we offer **three versions of the bema High-pressure water unit.**

FEATURES

- ✓ **Best cleaning results:**
High-pressure unit with or without water tank (2000 litres) and pump (high-pressure 120 bar, medium pressure 50 bar).
- ✓ **Powerful:**
Mechanical drive via drive shaft.
Optionally hydraulic with suitable carrier vehicle conditions.
- ✓ **Individually adaptable:**
Depending on the machine width the flush pipe of the sweeper is equipped with up to 11 high-pressure nozzles.
- ✓ **Mobile use:**
Use as a mobile high-pressure cleaner with an additional spray lance (including hose reel, 22 m hose, high-pressure spray lance).
- ✓ **Optimal combination for thorough cleaning:**
Scraping and rinsing with high-pressure.



High-pressure water unit - depending on the machine width equipped with up to 11 high-pressure nozzles



Version 1: **bema High-pressure water unit**

water tank in the rear (2000 litres),
120 bar piston pump

Version 2: **bema High-pressure water unit**

water tank in the rear (2000 litres),
50 bar membrane pump (PTO 540 rpm)

Version 3: **bema High pressure water unit**

50 bar membrane pump (PTO 540 rpm),
medium pressure variant, placed on top of the sweeper,
suction line and spray boom



FURTHER EQUIPMENT

Mobile high-pressure cleaner

Hose reel, 22 m hose,
additional high-pressure spray lance



Certified camera & monitor system (for cross traffic)





Details on carrier vehicle

INDIVIDUAL ATTACHMENT SOLUTIONS

bema attachments are always tailored to your carrier vehicle

Due to ever more efficient carrier vehicles and the variety of variants, we require important information about your carrier vehicle. The sooner we have this information, the sooner we can offer you the right attachment solution and clarify open issues. However, in order that your bema attachment arrives at you on time, this data must be available at the latest when the machine is ordered. Below you will find an overview of the necessary information about your carrier vehicle.

REQUIRED INFORMATION

1. Carrier vehicle (manufacturer, type/model)

2. Hydraulic power of the carrier vehicle (l/min)

For the protection of the hydraulic system against excessive pressure and to prevent damage, we equip your bema attachment above 80 l/min with a flow control valve to reduce the volume flow.

3. Number of control units (double-acting, single-acting, free return)

4. Electrical connection (12 volts, 24 volts)

5. Electrical socket (2-pin, 3-pin, 4-pin, 7-pin)

6. Load sensing control (yes/no)

In the case of carrier vehicles with load sensing control, we equip your attachment with an appropriate hydraulic package.







7. Couplings (see charts below)

Which couplings (SVK plug-in couplings, screw couplings, flat face couplings) are mounted on your carrier vehicle and what is the diameter of these couplings?

8. Mounting device (see dimension sheets on page 61-63)

We need information about the mounting device of your carrier vehicle in order to ensure that it fits exactly. Your bema dealer will assist you in determining the relevant data.

COUPLINGS

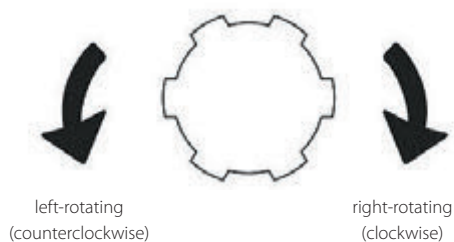
SVK plug-in couplings	Screw couplings	Flat face couplings (drip-free)
Plug 	Plug 	Plug 
Socket 	Socket 	Socket 



Dimension sheet: Tractor

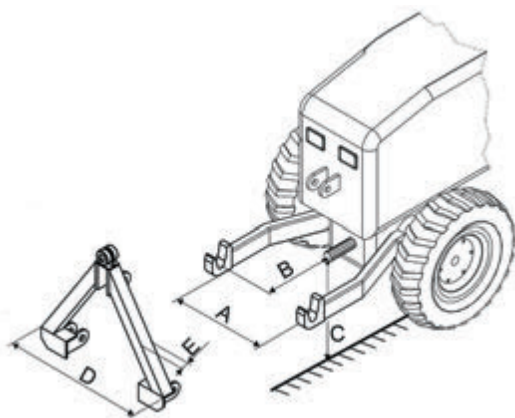
PTO shaft details / Description of the cardan shaft drive (profile)

Attention: The drawing shows a plan view!



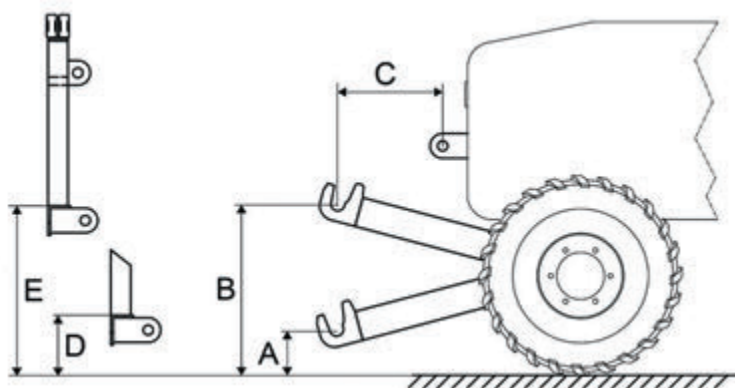
Number of PTO sprockets _____ pieces
 Ø PTO shaft outside _____ mm
 Nominal speed _____ rpm
 PTO shaft left-rotating
 right-rotating

General dimensions



Dimension A _____ mm
 Dimension B _____ mm
 Dimension C _____ mm
 Dimension D _____ mm
 Dimension E _____ mm
 Ø Top link _____ mm
 Ø Lower link _____ mm

Dimensions for the mounting



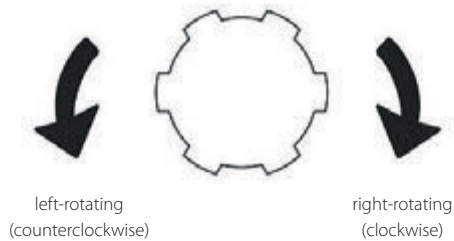
Take-up via three-point linkage
 Dimension A _____ mm
 Dimension B _____ mm
 Dimension C _____ mm
 Take-up via quick coupling triangle
 Dimension D _____ mm
 Dimension E _____ mm
 Manufacturer _____
 Category _____



Dimension sheet: Winter service plate

PTO shaft details / Description of the cardan shaft drive (profile)

Attention: The drawing shows a plan view!

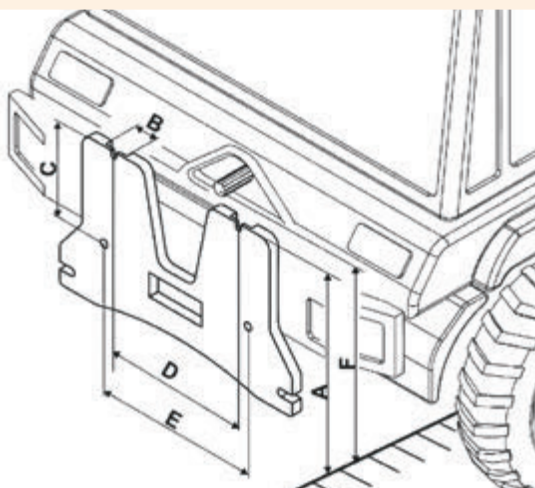


Number of PTO sprockets _____ pieces
 Ø PTO shaft outside _____ mm
 Nominal speed _____ rpm
 PTO shaft linksdrehend
 rechtsdrehend

General dimensions

Hydraulic pump Litre capacity _____ litres
Working hydraulics available yes no
Hydraulic control unit Number of double-acting control units _____ pieces
 Number of single-acting control units _____ pieces
 Number of control units with free return flow _____ pieces
Electrical connection 12 volts 24 volts
E power socket 2-pole _____ pieces 4-pole _____ pieces
 3-pole _____ pieces 7-pole _____ pieces

Dimensions for the winter service plate



Attachment according to DIN EN 15432-1

Mounting plate size F1 (formerly size 5)
 Mounting plate size F2 (formerly size 3)

Dimension A _____ mm
 Dimension B _____ mm
 Dimension C _____ mm
 Dimension D _____ mm
 Dimension E _____ mm

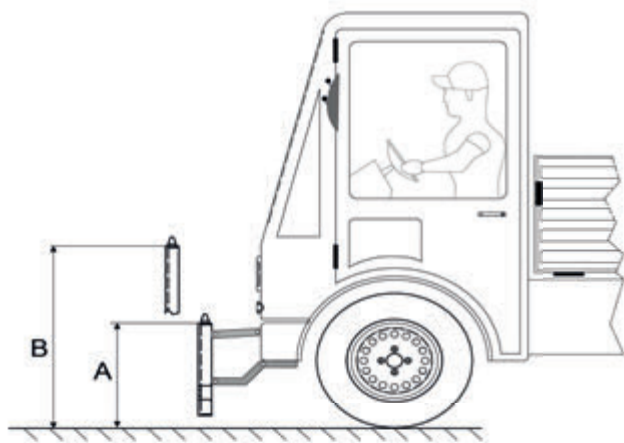


Dimension sheet: Municipal vehicle

General dimensions

Hydraulic pump	Litre capacity	_____	litres
Working hydraulics available	<input type="checkbox"/> yes	<input type="checkbox"/> no	
Hydraulic control unit	Number of double-acting control units	_____	pieces
	Number of single-acting control units	_____	pieces
	Number of control units with free return flow	_____	pieces
Electrical connection	<input type="checkbox"/> 12 volts	<input type="checkbox"/> 24 volts	
E power socket	2-pole	_____ pieces	4-pole _____ pieces
	3-pole	_____ pieces	7-pole _____ pieces

Dimensions for the attachment of the municipal vehicle



Dimension A _____ mm

Dimension B _____ mm

Further details



SPECIAL CONSTRUCTION SOLUTIONS & SPARE PARTS SERVICE

Nothing's impossible!

For some tasks and applications, the bema standard range is not sufficient to optimally meet all customer requirements. In these cases we are able to offer you a variety of special construction solutions.

Our modern machinery with CNC plasma cutting machine enables us to efficiently implement even unusual customer solutions for a wide variety of applications.

Inexpensive spare parts supply.

Do you need a new main brush, a plate brush, a spare part or other equipment?

If so, play it safe!

You will have a function guarantee only with original spare parts from bema. The bema spare parts service supplies you and/or your bema dealer quickly, reliably and inexpensively.

REPRESENTED WORLDWIDE

Hand in hand with factory representatives, specialist dealers and importers

We cannot be everywhere. But we can be represented everywhere. We sell our products exclusively through specialist dealers in order to guarantee you the best possible service. Our distribution network is well connected. We work hand in hand with factory representatives, dealers and importers all over the world.



IMPRINT & IMPORTANT NOTES

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Court of registration: Amtsgericht Osnabrück
Registration number: HRB 20007
Sales tax ID No.: DE 214 956 829

Gender note:	We attach great importance to gender equality. For reasons of better readability, however, the simultaneous use of the language forms male (m), female (w) and diverse (d) is not used. All personal names apply equally to all genders.
Conditions:	You will find the current version of our general terms and conditions at: bema-sweeper.com
Photo material:	bema GmbH Maschinenfabrik, Hegenberg productions, Freshmotion/UEBERVIDEO, Fotograf Frank Wollinger, a w sobott - atelier für werbefotografie gmbh, pixabay (C ker-Free-Vector-Images), applications images also supplied by bema sales partners.
Other notes:	All specifications, dimensions and weights are subject to technical development and as such, they are non-binding. Misprints, errors and technical changes are reserved. Date: 2023.01

[bema-sweeper.com](https://www.bema-sweeper.com)



Your local bema sales partner: