

Westermann

Seit
1989

Radialbesen



english - as at: august 2016

Product catalogue 2016

Foreword

Dear ladies, dear gentleman, dear business partners!

Times goes by - in 2014 company Westermann already celebrated it's 25th birthday!

In previous years, the company Westermann has grown rapidly. Today we are one of the most successful providers for cleaning technology in Europe and we supply our customers in 38 countries worldwide - I am very proud of that!

The continually increasing size of the workforce shows the success of Westermann products range and that „Made in Germany“ is very important. The trained and always motivated team has grown together in all this years and this is the basis of the day-to-day business life.

For us as an innovative producer of different cleaning machines the win of the gold medal on the EuroTier 2008 in Hannover was a special highlight. With this award we got worldwide recognition and positive feedback. We see this award as a reflection of our hard work.

I thank all my customers for their trust in us and our machines. We will always give our best to keep up to this expectations.

Yours



Alfons Westermann



One special thing is most important for the hole team of Westermann - the customer satisfaction!

That is what all our qualified employees work for every day, either in the production sector, in the sales sector or in the service sector - at Westermann the customer is king. Of course we advise you in detail which machine is the optimal choice for your needs and we deliver it to your home if you wish to.

We help you if you have any questions or if you have to change any spare parts. We accept every suggestion for a further development of our machines. If you are interested in our machines - just call us, we are already looking forward to it!

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The history of Westermann

Alfons Westermann completed a locksmith education, then he worked as a journeyman for four years. At the age of 23 he went to Osnabrück for completing a further education to become a mechanical engineering technician. Alfons Westermann was only 25 years old when he took the step into the self-employment - only 2 months later, in November 1989, he presents his motorized radial sweeper on an exhibition in Frankfurt a.M. Here he found his first contacts to customers from the agricultural sector.

First the company was housed in Mr. Westermann's parent's barn, then it moved into an old dairy of the village Lengerich. In 1995 a hall of 400 m² was built, seven years later this hall was enlarged to 600 m².

The capacities for this economically successful company were not enough and further growing at the previous location was not possible. So there had to be found an alternative: the company moved again in 2007 - to Meppen.

The location, the accessibility and the plot size were decisive for Meppen. "It is not far from the Schützenhof to the city", declares Alfons Westermann. "Even the inter-regional transport connections are excellent." The company is located in close proximity to the main road B70 and in short distance to the highway A31. Because of the forthcoming expansion of the street E233 the company soon can be reached very easily from every direction. "This is an advantage for our customers and our own logistic. We can deliver all our products very quickly and without any problems."

Furthermore also Westermann's supplier can be reached very good from this location in Meppen. „All material for building the frames of our machines come from this region. Meppen is very central in the Emsland, so it is the ideal control center for us."

After purchasing an adjoining hall complex in 2014 now the company currently has 7000 m² of hall space and an office complex on a total land area of two Hectares. So there is space for further growing.



Alfons Westermann with the radial sweeper 800, 1989



Westermann corporate building in Lengerich, 1995



Fig.: Westermann corporate building, 2016

The way from the layout up to the finished machine



After the first ideas comes the layout and the further development at the computer, made by high qualified engineers and mechanical technicians. Nevertheless, the small details make the difference. Such as the big and stable tyres at our attachment sweepers, which carry the machines safely above every underground.

After the development of a prototype, which has to pass various phases of tests, the final production begins. The production of the individual parts of our machines by different suppliers in Germany is subjected to constant quality control. By the way, we can use their best machines, technologies and know-how for the production of the parts for our machines.

In our own factory building our motivated and qualified employees put the machines together by handwork. It should be noted that all individual parts are screwed and not welded. This ensures a fast and uncomplicated exchange of spare parts.

Because of this method the different parts of the machines are galvanized and painted and after screwing together. That is why all these parts are completely covered with the protective layer. So, as one more key plus point, rusting of the steel is nearly excluded.

What accentuates the machines of Westermann:

- very easily to handle
- high quality, robust, durable
- multifunctional applications possible
- independent of any seasons, usable all year round
- because of screw connection very simple replacement of spare parts
- perfect for private households, agriculture or commune



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Westermann

Radialbesen



Radial sweeper - our multitalent at a glance

Characteristics

The Westermann radial brush is an assistant in different areas of application for decades: Either if it is used as pure sweeper for area maintenance or it is used for pushing food in agricultural holding. The powerful radial brushes by Westermann nearly brush every material.

Because of the angle of the brush this machines work perfectly on unevennesses as well and in all corners. The greatest advantage of the radial brush is the fact that it removes large volumed dirt which has long fibres in only one passage. It also lays the dirt down in a clean windrow. The debris can be pushed into a collecting system (Cleanbag).

The user has the choice between a powerful battery technic or a combustion engine.

Here the radial sweeper facilitates your work

Private households: footpaths, sidewalks, entrances, winter service (sweeping snow)

Agriculture/
Trade: footpaths, entrances, feedalleys, horse yards, planting foils (gardening, horticulture company,...), industrial and commercial sites, winter service (sweeping snow)

Commune: Footpaths, sidewalks, public facilities (schools, hospitals,...)
sports facilities, winter service (sweeping snow)

WR 650 charger
MAR 800 charger
WR 900 charger
MBR 800 Honda
WR 900 Honda

Radial sweeper

WR 650 Accu



Fig.: WR 650 accu

WR 650 charger

Advantages and characteristics

- very easy handling
- reaches into every corner, perfect sweeping of unevennesses because of their brush angle
- removes large-volumed and long-fibered dirt
- nerly silent functioning
- excellent performance in foliage elimination and sweeping snow



You will find the video of WR 650 charger right here!



Fig.: WR 650 charger with Windrow maker

Convincing in winter service:



Assistent for sweeping snow.



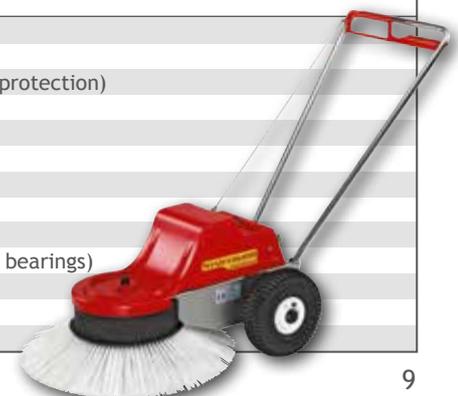
WR 650 accu for cleaning small areas.



WR 650 accu with collecting system Cleanbag.

| Type of machine | WR 650 charger |
|---|--|
| Brush drive | 12-V-DC motor |
| Battery | 12V 18Ah gel battery |
| Charger | special charger with automatic switch-off (overchargeprotection) |
| Duration of use | up to 45 minutes per battery charge |
| Brush | Polypropylen brush |
| Working width | 650 mm |
| Direction of rotation of brush | left/right |
| Area coverage | up to 1500 m ² /h |
| Height of brush container (incl. brush) | 18 cm |
| Tyres | pneupatic tyres 260/85 with ball bearings (groove ball bearings) |
| Guiding wheel | 125er solid tyre |
| Weight | 26 kg |
| Accessory | Windrow maker 650er, Cleanbag 650er |

(Technical data are approximate and non-binding.)



Radial sweeper

MAR 800 charger
WR 900 charger

The machines of the 800er and 900er series do not differ in their working width, but in the height of their brush container. The higher the brush container, the bigger volumed material can be swepted.



Fig.: MAR 800 charger with Windrow maker

MAR 800 charger / WR 900 charger

Advantages and characteristics

- very easy handling
- reaches into every corner, perfect sweeping of unevennesses because of their brush angle
- removes large-volumed and long-fibered dirt
- nearly silent functioning
- excellent performance in foliage elimination and sweeping snow



You will find the video of MAR 800 charger & WR 900 charger right here!

Convincing in winter service:



Sweeping snow - quickly done.



Picking up dirt with collecting system Cleanbag.



Reliable at the feed alley.

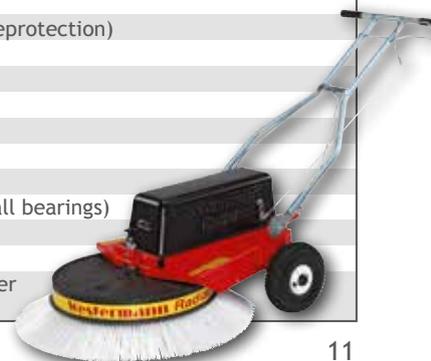


Perfect for horse yards.

Fig.: MAR 800 charger

| Type of machine | MAR 800 charger | WR 900 charger |
|---|---|--|
| Brush drive | | 12-V-DC motor |
| Battery | | 12V 66Ah battery |
| Charger | | special charger with automatic switch-off (overchargeprotection) |
| Duration of use | | up to 2,5 hours per battery charge |
| Brush | | Polypropylen brush |
| Working width | | 870 mm |
| Direction of rotation of brush | | left/right |
| Area coverage | | 2500 m ² /h |
| Height of brush container (incl. brush) | 18 cm | 23 cm |
| Tyres | | pneumatic tyres 260/85 with ball bearings (groove ball bearings) |
| Guidewheel | 125er solid tyre | 160er solid tyre |
| Weight | 61 kg | 63 kg |
| Accessory | Windrow maker 800er Cleanbag 800/900er | Windrow maker 900er Cleanbag 800/900er |

(Technical data are approximate and non-binding.)



Radial sweeper

MBR 800 Honda
WR 900 Honda

The machines of the 800er and 900er series do not differ in their working width, but in the height of their brush container. The higher the brush container, the bigger volume of material can be swept.



POWERED by
HONDA™

Fig.: WR 900 Honda

Convincing in winter service:



Removes big masses of snow.



Ideal for housing estates.



Perfect for tennis courts and sports facilities.

MBR 800 Honda / WR 900 Honda

Advantages and characteristics

- equipped with a high-quality Honda-Motor for steady power
- reaches into every corner, perfect sweeping of unevennesses because of their brush angle
- perfect for moving big food masses in agriculture
- removing big masses of material / snow
- sweeping regularly with the steel brush achieves very convincing results in the eco-friendly moss removal without any chemicals

Optional equipment:

- Industrial motor Honda GXV 160 OHV
- double bristles for cleaning tennis courts or sports facilities, narrow tyres for a broader ground pad of the tyres



You will find the video of MBR 800 Honda & WR 900 Honda right here!

Steel brush

| Type of machine | MBR 800 Honda | WR 900 Honda |
|---|--|---|
| Brush drive | Honda GCV 160 OHC (alternative: GXV 160 OHV) 4-stroke engine | |
| Duration of use | continuously | |
| Brush | Polypropylen brush, wire-PPN-mix, wire brush | |
| Working width | 870 mm | |
| Direction of rotation of brush | left/right | |
| Area coverage | 2500 m ² /h | |
| Height of brush container (incl. brush) | 18 cm | 23 cm |
| Tyres | pneumatic tyres 260/85 with ball bearing (groove ball bearing) | |
| Guidewheel | 125er solid tyre | 160er solid tyre |
| Weight | 64 kg | 65 kg |
| Accessory | Windrow maker 800er Cleanbag 800/900er | Windrow maker 900er Cleanbag 800/900er |

(Technical data are approximate and non-binding.)



Safely through the winter - with Westermann

Characteristics

The machines of Westermann, which are very flexible at use, also are a valuable aid in winter service: laborious shoveling and sweeping snow off sidewalks of private households, on agricultural holdings or on public places - all this belongs to the past because of our powerful machines.

All of the manual led radial sweeper, the multifunction machine Cleanmeleon 2 and even the Dozer with appropriate equipment remove snow without any problems - even wet and heavy snow masses.

Here the radial sweeper facilitates your work during the winter

Private households: Footpaths, sidewalks, entrances

Agriculture/
Trade: Footpaths, entrances, courtyard areas, horse yards, industrial and commercial sites

Commune: Footpaths, sidewalks, public places, parking areas



Fig.: MBR 800 Honda sweeps snow up to every corner



Advantages and characteristics

Manual leaded radial sweeper

- very good cleaning results in sweeping snow on private areas
- sweeps snow perfectly on uneven undergrounds because of the angle of the brush
- deep wheel profiles prevent slipping on the snow

Cleanmeleon 2 • Cleanmeleon 2 XL

- sweeping snow with R 900 or R 1000
- pushing snow with the snow plough
- perfect workload for snow removal on large areas
- special option: a salt spreader as a trailer can be attached at the back

Dozer

- perfect grip on snowy underground because of deep profiles
- winter service with radial brushes, snow blower etc.



Fig.: CM2 with snow plough



manual leaded radial sweeper
CM2 / CM2 XL
Dozer



Westermann

Radialbesen



Fig.: Cleanmeleon 2 with radial brush R 1000
(PPN brush, small picture / steel brush, big picture)



Cleanmeleon 2 - our allrounder at a glance

Characteristics

Because of its zero turn steering the Cleanmeleon 2 is very agile, stable and flexible. Either if you are scraping, sweeping stables, spreading, pushing food, sweeping silos or courtyard areas, sweeping moss or dirt, pushing snow or carrying a feed barrow - our Cleanmeleon 2 eases your work decisively for more than 10 years.

The machine (with petrol engine or diesel engine) is driven hydrostatically by the front axle and so it adapts to difficult conditions. Because of the 5 mm strong and galvanized chassis the machine is very long-living.

Of course it is possible to couple and uncouple the attaching machines easily and quickly. So a spreader becomes a sweeper or a the snow pusher becomes a high pressure cleaner.

A special feature of the Cleanmeleon 2 is its „big brother“ - the **Cleanmeleon 2 XL!**

This diesel machine has nearly the same size but the „big one“ is even more powerful and robust. This makes it perfect for working under heavy conditions.

Here the Cleanmeleon 2 facilitates your work

Private households: entrances (sweeping moss and dirt), winter service (sweeping and removing snow)

Agriculture/
Trade: entrances (sweeping moss and dirt), planting foils (gardening / horticulture company), horse yards, courtyard areas, cleaning slatted floors / washing slatted floors, cleaning laying areas, spreading, cleaning feed areas, treating food, sweeping silos, washing troughs, cleaning stalls, winter service (sweepings and removing snow)

Commune: footpaths, sidewalks, industrial and commercial sites, public facilities (schools, hospitals, ...) sweeping moss and dirt, cleaning sports areas, winter service (sweeping and removing snow)

CM2

- CM2 with axial sweeper AX 900 / AX 900-Electric
- CM2 with axial sweeper Perfekt 1050
- CM2 with radial brush R 900 / R 1000
- CM2 with food auger FA 800
- CM2 with snow plough
- CM2 with pushing shield 80 - 160
- CM2 scraper
- CM2 with scraper ASS 800 / ASS 900
- CM2 with lime and feed spreader
- CM2 with spreader

CM2 washer

CM2 Electric

CMA 800 Elektro - stand-on scraper

CM2 XL the diesel machine

Cleanmeleon 2 - the basic machine

The **allrounder**
for different
working assignments!

Advantages and characteristics

The Cleanmeleon 2 is Westermanns multifunctional machine par excellence.

Because of its compact and rugged design and the zero turn the CM2 is extremely agile, even in narrow areas. So cleaning small areas is no longer a problem. Different attaching machines make the CM2 extremely flexible to use. Either if it is used as a scraper or it is a perfect assistant at the feed alley when the machine is equipped with a radial brush or a food auger: with the CM2 every work can be done, quick and clean. The available attaching machines can be changed very easily and quickly in just a few simple steps - there is no need for additional tools. The CM2s continuously powerful mode of operation considerably eases the cleaning of stables and yards.

Of course the CM2 is perfect for cleaning public areas. Equipped with a radial brush oder with one of the two available axial sweepers „Perfekt 1050“ or „AX 900“ large quantities of leaves and other material on public areas can be removed easily and conveniently.



You will find the
video of
Cleanmeleon 2
right here!

| Type of machine | GXV 160 without hydraulic | GXV 340 without hydraulic | GXV 340 with hydraulic | Vanguard 2 cylinder with hydraulic |
|---------------------------------|--|--|--|---|
| Motor (petrol, or diesel) | GXV 160 Honda | GXV 340 Honda | GXV 340 Honda | Briggs & Stratton Vanguard |
| Start | manual start | e-start | e-start | e-start |
| Power m ³ | 160 m ³ | 340 m ³ | 340 m ³ | 479 m ³ |
| Hydraulic | without | without | with | with |
| Hydraulically power | none | none | 13 ltr. / min | 13 ltr. / min (18 ltr. / min, in consultation) |
| Drive | hydrostatical | | hydrostatical | |
| Steering | chain steering | | chain steering | |
| Weight (basic machine) | app. 195 kg (additional weights are possible if required) | app. 225 kg (additional weights are possible if required) | app. 260 kg (additional weights are possible if required) | app. 270 kg (additional weights are possible if required) |
| Size | L = 1800 mm, W = 770 mm, H = 1070 mm | | L = 1800 mm, W = 770 mm, H = 1070 mm | |
| Chassis | 5 mm zinced | | 5 mm zinced | |
| Tyres | AS tyres 16 x 6.50-8 | | AS tyres 16 x 6.50-8 | |
| Lifting up of attaching machine | mechanical | mechanical | mechanical or hydraulic | mechanical or hydraulic |
| Attachment options | ASS 800 ASS 900 Pushing shield Snow plough | ASS 800 ASS 900 Pushing shield Snow plough | all (but not the washer) | all (but not washer) if 18 ltr./min hydr. power also the washer possible |

(Technical data are approximate and non-binding.)





successful - more than
10
years



Cleanmeleon 2 - with axial sweeper AX 900

With overhead-sweeping-principle

Axial sweeper AX 900

Advantages and characteristics

- overhead sweeping principle: the material is thrown over the roller and falls from above into the underlying collecting box (picking up much debris!)
- brush with pendulum suspension: perfect sweeping of uneven undergrounds
- roller-lip carries dirt perfectly to the inside-brush, it guarantees dust-free sweeping
- optionally expandable with up to two side brushes, this enables sweeping flush to the wall
- side brushes are individually adjustable and can be switched off



You will find more informations about AX 900 right here!

Fig.: Side brushes are individually adjustable

| Type of machine | Axial sweeper AX 900 | Axial sweeper AX 900-Electric - with 48 Volt electric drive - |
|-----------------------------------|--|--|
| Working width | | 900 mm |
| Working width with 2 side brushes | | 1250 mm |
| Roller brush Ø: 260 mm | Polypropylen brush | Nylon brush |
| Side brush Ø: 400 mm | Polypropylen brush | Nylon brush |
| Collecting box | (expandable with up to two side brushes) | |
| Lifting up | Depth = ca. 260 mm, manually emptied hydraulically | |



Cleanmeleon 2 - with axial sweeper Perfekt 1050

Sweeping flush to the wall without side brush

Axial sweeper Perfekt 1050

Advantages and characteristics

- robust sweeping system made of resistant plastic and zinc steel
- roller brush is hanging free and withstands potholes
- hydraulically height adjustment of roller brush
- when lifting up the side panels and inclining the roller brush, there is no need for a further side brush for sweeping flush to the wall
- the plastic housing allows dust-free sweeping through ideal covering of the roller brush



You will find the video of Perfekt 1050 right here!



Cleans large areas - up to the wall.



Sweeping flush to the wall without any side brush.



Fig.: clean public area

| Type of machine | Perfekt 1050 |
|-----------------|---|
| Working width | 1050 mm |
| Brush | 2 pieces made of PPN |
| Collecting box | manually emptied, lifting up side panels for sweeping flush to the wall |
| Lifting up | hydraulically |
| Housing | resistant plastic |
| Pivoting | left/right (mechanically) |

(Technical data are approximate and non-binding.)



Cleanmeleon 2 - attaching machines

CM2 with radial brush R 900 / R 1000
CM2 with food auger FA 800

CM2 radial brush R 900 / radial brush R 1000

Advantages and characteristics

- for CM2 with „GXV 340 with hydraulic“ / „Vanguard Briggs & Stratton with hydraulic“
- robust, stable brushes for moving heavy masses of material
- R 1000 also available as steel brush for sweeping moss
- direction of rotation of the brush is flexibly adjustable (right / left)
- easy change of brush via changing of screws



R 900: moving heavy masses of food - no problem.



You will find the video of CM2 with R 900 right here!



You will find the video of CM2 with R 1000 right here!

Fig.:
CM2 with R 1000

| Type of machine | Radial brush R 900 | Radial brush R 1000 |
|-----------------|--|---------------------------------------|
| Working width | 900 mm | 1000 mm |
| Area coverage | | up to 4100 m ² /h |
| Brush | PPN brush (also steel/PPN mix brush or steel brush possible) | PPN brush (also steel brush possible) |
| Accessory | side plate right or left | side plate right or left |

(Technical data are approximate and non-binding.)

CM2 food auger FA 800

Advantages and character

- open windings loosen the food and make it more attractive for the animals
- food is thrown back into the trough loosely and evenly
- flexible rubber lips guarantee a clean feed alley
- reduction of mold / smear layer
- can be equipped with an additional, following radial brush



Very clean results with additional radial brush R 650.



You will find the video of FA 800 right here!

| Type of machine | Food auger FA 800 |
|-----------------|---|
| Working width | 800 mm |
| Accessory | can be equipped with a following radial brush R 650 |

(Technical data are approximate and non-binding.)

Cleanmeleon 2 - attaching machines

CM2 with snow plough
 CM2 with pushing shield 80 - 160

CM2 snow plough

Advantages and characteristics

- perfect even for pushing dirt or food
- snow plough is pivoting left / right
- with robust protection ridge



You will find informations about the snow plough right here!



Pushing food at feed alley.

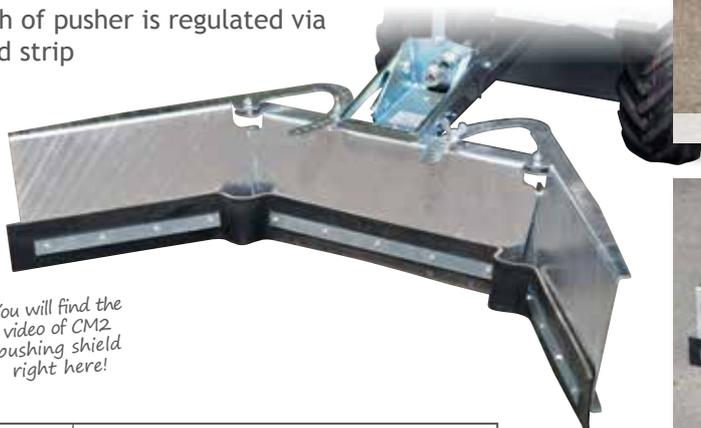
| | |
|-----------------|--|
| Type of machine | Snow plough |
| Working width | 1600 mm |
| Special feature | pivoting left / rights |
| Addition | hydraulic pivoting via cylinder (only for basic machines with hydraulic) |

(Technical data are approximate and non-binding.)

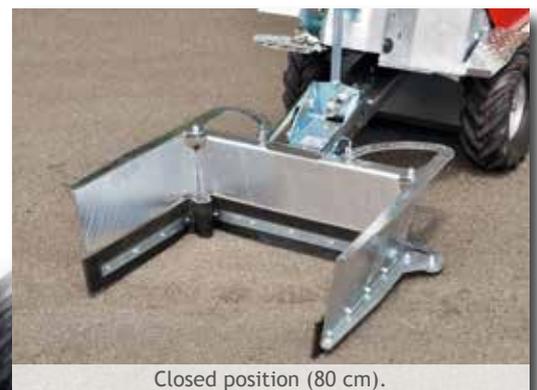
CM2 pushing shield 80 - 160

Advantages and characteristics

- perfect for narrow passages
- working width of pushing shield is flexibel adjustable from 80 cm up to maximum 160 cm
- span width of pusher is regulated via perforated strip



You will find the video of CM2 pushing shield right here!



Closed position (80 cm).



Open position (160 cm).

| | |
|-----------------|-----------------------------------|
| Type of machine | Pushing shield |
| Working width | adjustable from 800 up to 1600 mm |
| Chassis | zincd |
| Rubber lip | flexible with fabric lining |
| Mounting | quick change system |

(Technical data are approximate and non-binding.)

Cleanmeleon 2 - attaching machines

CM2 scraper - fixedly mounted
CM2 with scraper & side brush

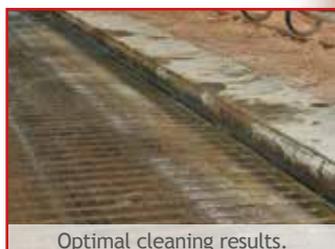
CM2 scraper - fixedly mounted!

Advantages and characteristics

- hydrostatic drive via front axle
- double attaching scraper ASS 800 / ASS 900 is **fixedly mounted** at the chassis
- incl. 50 kg additional counter weight plates for a better traction



You will find the video of CM2 scraper right here!



Optimal cleaning results.



| | |
|-----------------|--|
| Type of machine | CM2 scraper |
| Motor | GXV 160 Honda hand start (petrol engine) or GXV 340 Honda with E-Start (petrol engine) |
| Tyres | AS tyres (16 x 6.50-8) |
| Weight | 275 kg + driver (incl. 2 additional weights), more additional weights possible if required |
| Length | 1800 mm |
| Width | 770 mm (basic machine) / 800 or 900 mm (with scraper) |
| Height | 1070 mm |
| Drive | hydrostatical |

(Technical data are approximate and non-binding.)

CM2 with scraper ASS 800 / ASS 900

Advantages and characteristics

- professional attaching scraper for Cleanmeleon 2
- particularly effective by using two rubber lips which are fixed one behind the other
- can optionally be equipped with additional side brush for cleaning the laying area



You will find the video of CM2 scraper right here!



Cleaning laying area with side brush.

| | | |
|----------------------------|---------------------------|--|
| Type of machine | Scraper ASS 800 / ASS 900 | Side brush (only for CM2 with hydraulic) |
| Working width / Ø of brush | 800 mm / 900 mm | 700 mm |
| Attaching machine for | Cleanmeleon 2 | CM2 - ASS 800 / ASS 900 |
| Area of use | cleaning running area | cleaning laying area |

(Technical data are approximate and non-binding.)

Cleanmeleon 2 - attaching machines

CM2 with lime and feed spreader
 CM2 with spreader

CM2 lime and feed spreader

Advantages and characteristics

- perfect for spreading lime evenly
- ideal for dispensing concentrated feed
- adjustable opening for dispensing quantity of material
- pivoting manually



CM2 spreader

Advantages and characteristics

- high quality and sturdy guiding wheels
- protecting edge made of stainless steel
- flexible mixing paddles spread out the flooring material
- self-filling by tipping down the container via hydraulic cylinders is possible
- also available as trailer version



You will find the video of the spreader right here!



| Type of machine | CM2 spreader | |
|-----------------|---|---|
| | - informations without increase - | - informations with increase - |
| Filling volume | 580 liter | 930 liter |
| Size | L = app. 125 cm, W = app. 108 cm, H = app. 126 cm | L = app. 144 cm, W = app. 125 cm, H = app. 170 cm |
| Accessory | | side brush |

(Technical data are approximate and non-binding.)

Cleanmeleon 2 washer

Complete package

High pressure cleaned undergrounds are no longer a source of danger for the animals caused by slipping. They also offer less breeding grounds for pathogens.



Fig.: Cleanmeleon 2 washer

CM2 washer

Advantages and characteristics

- 80 cm working width
- with 3 flexible rubber strips
- washer with 2 cylinder motor
- inclusive 150 ltr. water tank, high pressure pump, filter, cleaning stars („hydraulic lifting“, „big hydraulic pump“ and „big oil tank“ necessary).
- the underground and the fissures of the slatted floor can be perfectly cleaned via high pressure pump
- Accessory: Adapter for high pressure nozzle (transformation to a mobile high pressure cleaner)
- this add-on module for CM2 scrapes very cleanly AND washes completely the underground
- thorough cleaning of the slatted floor increases general hygiene conditions, simultaneously minimizes pathogens and accident risks for the animals



Dirt is taken up to the edge.



High pressure nozzle removes dirt.



Ideal cleaning of slatted floor.



You will find the video of CM2 washer right here!



Fig.: Simple and complete cleaning of running area.

Cleanmeleon 2 Electric - for the environment

- with radial brush R 900-E
- with scraper ASS 900
- with pushing shield
- with snow plough
- with AX 900-E



NEW Product AX 900-E: available since May



Fig.: CM2 Electric with radial brush R 900-E

Scraper available
with additional
side brush

Cleanmeleon 2 Electric

Advantages and characteristics

- working very quiet and emission-free
- agile, robust, flexible for use
- driven by 4 traction and light batteries
- charger included
- changing of attaching machines without any tools via locking clip



You will find the
video of
Cleanmeleon 2
right here!



CM2 Electric with scraper.



CM2 Electric with pushing shield.



CM2 Electric when pushing snow.



Fig.: CM2 Electric with new product AX 900-E

| Type of machine | Cleanmeleon 2 ELECTRIC |
|-------------------------------|---|
| Steer | chain steering |
| Drive | batterie driven, traction and light batteries 4 x 12V, 80 Ah |
| Ladegrät | electronic charger 48V, electronic switch-off for batterie conservation (overchargeprotection) |
| Power (in Watt) | 1100 Watt (1,1 KW), 48 Volt |
| Duration of use | 120 Min. |
| Speed | 8 km/h forward, 5 km/h backward |
| Weight | 325 kg (high traction), additional weights possible if required |
| Size | L: 1800 mm, W: 770 mm, H: 1070 mm |
| Chassis | 5 mm zined |
| Tyres | AS tyres 16 x 6.50-8 |
| lifting up attaching machines | foot rotor lift |
| Mounting options | R 900-E, ASS 800 / ASS 900, pushing shield, snow plough, AX 900-E |

(Technical data are approximate and non-binding.)



CMA 800 Elektro - environmentally friendly on the slatted floor

Stand-on scraper



Fig.: stand-on scraper CMA 800 Elektro

Stand-on scraper CMA 800 Elektro

Advantages and characteristics

- working very quiet and emission-free
- for cleaning in narrow passages
- extremely durable, long-living and easy to handle with robust construction
- batterie driven, with excellent traction and light batteries
- charger included
- control vial front axle
- high weight: 134 kg + driver

Easy handling



1: easy lifting up of scraper via foot rotor lift



2: right hand: giving gas
left hand: forward/off/backward



You will find the video of CMA 800 Elektro right here!

Fig.: clean results up to the edge



C-shaped front takes all dirt.



Perfect for narrow passages.



Non-slipping underground.

| Type of machine | CMA 800 Elektro |
|-----------------|---|
| Working width | 800 mm |
| Weight | 134 kg + driver |
| Tyres | back: AS tyres (16 x 6.50), front: AS tyres (13 x 5.00) |
| Charger | electronic with 24V (with overchargeprotection) |
| Batteries | 2 x 12V 60Ah traction and light batteries |
| Scraper | double scraper with 2 flexible rubber lips |

(Technical data are approximate and non-binding.)



Cleanmeleon 2 XL Diesel

Diesel machine



Fig.: CM2 XL diesel with food auger FA 800

CM2 XL Diesel

Advantages and characteristics

- even more powerful as the CM2 with similar dimensions
- water cooled 2 cylinder diesel motor
- hydraulical all-wheel drive
- stable coupling triangle for high lifting capacity
- particularly suitable for any works in big barns



Valuable outside the barn with radial brush R 1000.



Cleaning the running and laying areas.



CM2 XL for demanding work under heavy conditions



You will find informations about CM2 XL diesel right here

Cleaning running and laying area and spreading out new material at the same time.

| Type of machine | Cleanmeleon 2 XL |
|----------------------------------|--|
| Motor (diesel) | Kubota Z602, 10,3 KW, 2 cylinder water cooled |
| Sound volume | 83 dB |
| Hydraulical power | 3.200 t/min = app. 24 dm ³ /min., 180 bar, oil cooler included |
| Drive | all-wheel, axial piston pump |
| Speed | infinitely variable up to 10 km/h |
| Start | automatic glowing included |
| Steering | chain steering (zero-turn), very easy steering |
| Weight (basic machine) | 460 kg (additional weights possible if required) |
| Size | L = 1805 mm, W = 832 mm, H = 1275,3 mm |
| Chassis | 8 mm zincod |
| Tyres | AS tyres 18 x 8.50-8 |
| Lights | LED lights in the front, 12 volt 55 Ah batterie |
| Accessory | incl. working hour counter |
| Lifting up of attaching machines | 500 kg, 300 mm stroke |
| Mounting options | via coupling triangle, category zero, mounting of every attaching machine of CM2 is possible |

(Technical data are approximate and non-binding.)





Westermann

Radialbesen



Fig.: Dozer with granulate milling machine GF 1000/15

Der Dozer - out power pack at a glance

Characteristics

The Dozer is a powerful cleaning device, which finds its work effort specially in poultry houses. There the Dozer has the perfect grip because of the all-wheel drive of its 6 wheels.

The Dozer's attaching machines - spreader, granulate milling machine and trough washer - are as robust, stable and powerful as their carrying vehicle. They can be mounted at the Dozer very easily und without any complications at the front or the rear of the Dozer.

Working with this machine provides more hygiene in the poultry houses and related to this it ensures increases animal welfare - this benefits the general health of the animals.

Especially the foot pad dermatitis can be clearly reduced by using the granulate milling machine. The trough washer cleans up the troughs very effectively, pathogens are removed comprehensively.

Here the Dozer facilitates your work

Poultry house: sweeping, spreading, milling, washing troughs, sweeping courtyard areas

Cowshed, bullshed and pigsty: Spreading, washing slatted floors, sweeping food, loosening food, sweeping courtyard areas

Commune: sweeping dirt, milling and blowing snow



Dozer
- basic machine
Dozer
- attaching machines

Dozer - the power pack in the poultry house

With all-wheel drive



Fig.: working close to the edge - no problem.



Dozer

Advantages and characteristics

- perfect grip because of all-wheel drive
- stable coupling triangle for high lifting capacity
- finds its work effort especially in poultry houses
- effectively and extensively usable for improved hygiene conditions and increased animal welfare
- valuable help in cowsheds, bull stalls, pigsties for working under heavy conditions
- can also be used for communal work efforts



You will find the video of the Dozer right here!



High agility in narrow passages.



Tramped floor material before and after milling.



Fig.: Loosening of the tramped floor material with the granulate milling machine

| Type of machine | Dozer |
|--|---|
| Motor | 21,7 kw (29,5 PS); 1260 ccm, 3 Zylinder Diesel |
| Steer | hydraulic |
| Hydraulic power | working hydraulic 51 l / min; max 180 bar |
| Lifting force (front & rear hydraulic) | 500 kg |
| 500 mm from accord triangle | |
| Speed | infinitely variable 0 - 10 km/h |
| Drive | all-wheel (all 6 wheels) |
| Starter | E-Start |
| Tyres | 6 x AS tyres 16x6,5-8 (wie CM2) |
| Size | L = 1830 mm ; W = 970 mm; H = 1320 mm |
| Weight | 725 kg |
| Chassis | 6 mm stainless steel, zined |
| Attaching machines | via coupling triangle front and back: all machines for municipal technique front and back, standard |
| Light | |

(Technical data are approximate and non-binding.)



Attaching machines for the Dozer

Granulate milling machine
GF 1000 / 15
Trough washer
Spreader
Radial brush R 1200
Food auger FA 1200
Washer
Snow blower

The Dozer's attaching machines - spreader, granulate milling machine and trough washer - are as robust, stable and powerful as their carrying vehicle. They can be mounted easily and without any complications at the front or at the rear.

If using this machine regularly it ensures better hygiene in the barns and related to this it increases the animal welfare. This benefits not only their general state of health but also it increases their efficiency.

Granulate milling machine GF 1000/15



- loosens the tramped floor material in poultry houses
- reducing significantly foot pad dermatitis
- Working width: 1000 mm

Trough washer



- effective cleaning of the troughs in just one working passage
- reliable removing of pathogens
- incl. high pressure water and foam nozzles

Spreader



- spreads out the material loosely and evenly
- incl. mixing paddles
- volume: 580 ltr.
- accessory: additional side brush available

Radial brush R 1200



- PPN brush
- sweeps into every corner, perfect for sweeping flush to the wall because of the brush angle
- working width: 1200 mm
- accessory: side plate left and right available

Food auger FA 1200



- open windings loosen the food and make it more attractive for the animals
- flexible rubber lips guarantee a clean feed alley and reduce mode and smear layers
- food is thrown back into the trough loosely and evenly
- working width: 1200 mm

Washer



- thoroughly cleaning of running area in cattle stalls
- incl. 150 ltr. water tank, high pressure pump, 3 rubber lips, filter and cleaning stars
- working width: 1200 mm



You will find the video of the Dozer right here!

Ideal for municipal - the Dozer convinces when cleaning outdoor facilities

If it is equipped with machines for municipal service just like a **snow blower** or a **mulcher** the Dozer is optimally prepared for doing the municipal service. Either if it is doing demanding cleaning jobs (sweeping, removing snow,...) or if it is working for maintaining

green areas on public facilities - working under heavy conditions is no problem for the Dozer because of its stable coupling triangle. Furthermore the Dozer has the perfect grip on every underground caused by the deep profiles of the wheels.



All-wheel drive and deep profiles of tyres make the Dozer extremely all-terrain.



Westermann

Radialbesen



Fig.: attaching radial brush R 1200

Attaching machines - our assistants at a glance

Characteristics

Our attaching machines are the perfect assistants for working on courtyard areas. They can be mounted on different carrying vehicles very quickly and without any tools.

So it takes just a few steps to transform an existing machine like a tractor into a perfectly working cleaning machine which facilitates your everyday work.

Not only the courtyard area and the feed alley in stalls are well-kept, so are especially the indoor stable areas. The attaching machines clean the running areas and the lying areas very simply, quickly and thoroughly.

Here the attaching machines facilitate your work

Agriculture/ courtyard areas, horse yards, sweeping entrances, preparing food, cleaning /
Trade: washing slatted floors, cleaning running areas, industrial and commercial sites,
winter service (sweeping snow)



Radial brush R 1200 / R 1400
Food auger FA 1200
ASS 1200 - double scraper
Washer
Spreader

Attaching machines - for different carrying vehicles

Attaching radial sweeper R 1200 / R 1400
Attaching food auger FA 1200

Radial brush R 1200 / R 1400

Advantages and characteristics

- powerful hydraulic motor
- direction of rotation of brush is individual adjustable (left/right)
- PPN brush: robust and flexible
- available with side plate
- working width: 1200 mm / 1400 mm
- accessory: side plate right and / or left



Indispensable assistant at the feed alley.



You will find the video of R 1200/ R 1400 right here!

Food auger FA 1200

Advantages and characteristics

- open windings loosen the food and make it more attractive for the animals
- flexible rubber lips guarantee a clean feed alley
- reduction of mold / smear layer
- working width: 1200 mm
- accessory: pendulum balancing plate



Food is attractive again for the animals.



You will find the video of food auger FA 1200 right here!!

Attaching machines - for different carrying vehicles

Attaching scraper ASS 1200
Attaching washer
Attaching spreader

ASS 1200 - double scraper

Advantages and characteristics

- optimal cleaning results on the running area because of broad double scraper
- equipable with side brush for cleaning laying area
- working width: 1200 mm
- accessory: side brush R 650



You will find the video of ASS 1200 right here!



Washer

Advantages and characteristics

- with hydraulic pump, water tank and cleaning stars
- three rubber lips push the dirt through the slatted floor and dry the underground quickly
- cleaning stars clean the gaps of the slatted floor
- the following high pressure waterjet cleans the running area and the gaps
- working width: 1200 mm
- accessory: high pressure nozzle



You will find the video of the washer right here!



Spreader

Advantages and characteristics

- for front attachment at the carrying vehicle
- spreads out the material loosely on the laying area (mixing paddles included)
- volume: 580 ltr.
- accessory: enlargement for 930 ltr., additional side brush available



You will find the video of the spreader right here!





Westermann

Radialbesen



Fig.: attaching sweeper „Optimal“ 1600 (front attachment)

Attaching sweeper - our surface cleaner at a glance

Characteristics

By developing the attaching sweepers of the series „Optimal“ and „Perfekt“ the company Westermann got high quality and robust cleaning machines for the rear or front attachment on different tractors and loaders.

Big and stable tyres carry the attaching sweepers above every underground very safely. As a result of that they have a very smooth driving style. In combination with the big roller brush convincing cleaning results can be achieved.

The sweepers adapt to every underground because of the mounted pendulum balance. During sweeping the roller brush puts the dirt directly into the included collecting box.

The industrial edition of the attaching sweeper „Perfekt“ is particularly stable. The strong chassis frame and the 4 sturdy heavy-duty wheels make this machine perfect for every work effort.

These attaching sweepers are not only suitable for agriculture. Even for municipal service on municipal and public areas they are great assistants for cleaning them.

Here the attaching sweeper facilitate your work

Agriculture/: courtyard areas, horse yards, cleaning streets, parking areas, cleaning halls
Trade

Commune: industrial and commercial sites, parking lots, public facilities (cleaning streets, cleaning marketplaces,...), cleaning halls

For rear OR front attachment:
Optimal 1600
Optimal 2300

For rear AND/OR front attachment:
Perfekt 1800
Perfekt 2500

Perfekt 1800 / Perfekt 2500:
Industrial edition

Attaching sweeper „Optimal“

For rear OR front attachment:

- Optimal 1600
- Optimal 2300

Convincing system for emptying the collecting box: The complete dirt falls out the collecting box because of a deflection angle of more than 90°, there are no residues. The collecting box is completely empty for the next work effort.



Fig.: attaching machine „Optimal“ 2500 (rear attachment)



Attaching sweeper „Optimal“

Advantages and characteristics

- height adjustment of roller brush via slot and lever (depends on wear and tear)
- low-wear plastic skids protect the collecting box
- free sweeping possible just by putting up the collecting box (no dismantling necessary!)
- 3rd guiding wheel of front version reduces swaying of the whole machine
- attaching sweeper „Optimal“ is optionally equipable with an additional side brush



Ideal cleaning of halls with sidebrush.



Big tyres & pendulum balance plate with prop.

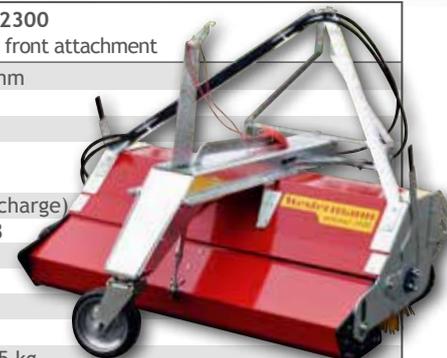


You will find the video of Optimal 2300 right here!



Fig.: easy cleaning of streets

| Type of machine | Optimal 1600 | | Optimal 2300 | |
|---------------------------------|---|--------------------|-------------------|--------------------|
| | - rear attachment | - front attachment | - rear attachment | - front attachment |
| Working width | 1600 mm | | 2300 mm | |
| Diameter of brush | 520 mm | | | |
| Collecting box (depth) | D = 360 mm | | | |
| Collecting box (emptying) | emptying mechanically, hydraulically possible (for surcharge) | | | |
| Pivoting | mechanically, hydraulically possible (for surcharge) | | | |
| Support wheels (280 mm x 80 mm) | 2 | 3 | 2 | 3 |
| Drive | gerotormotor | | | |
| Max. working pressure | 180 bar | | | |
| Conveyed volume | min. 20 ltr./Min. | | | |
| Brush speed | 100 - 200 U/Min. | | | |
| Weight | app. 280 kg | | app. 315 kg | |



(Technical data are approximate and non-binding.)

Attaching sweeper „Perfekt“

For rear AND/OR front attment:

- Perfekt 1800
- Perfekt 2500

Sweeping flush to the wall without an additional side brush is possible with the attaching sweeper of the series „Perfekt“. Just put up the side plates, then the machine sweeps up at every edge.



Fig.: attaching machiens „Perfekt“ 2500 (rear attachment)

Attaching sweeper „Perfekt“

Advantage and characteristics

- resistant, stable, stainless plastic housing covers roller brush for sweeping dust free
- roller brush with pendulum suspension, fits to every unevenness, it is automatically relieved
- putting up the side plates enables sweeping flush to the wall without an additional side brush
- also available as **industrial edition** with reinforced chassis frame and heavy-duty wheels (look at p. 48)



Cleaning large areas.



Sweeping flush to the wall without side brush.



Collecting box and roller brush.



You will find the video of Perfect 1800/ Perfect 2500 right here!

Fig.:
Perfekt 1800 (front attachment)

| Type of machine | Perfekt 1800 | Perfekt 2500 |
|-------------------|---|--|
| Working width | 1800 mm | 2500 mm |
| Diameter of brush | 600 mm | |
| Brush | pendulum suspension for ideal ground adaption, automatically relieve of brush | |
| Collecting box | depth = 430 mm; big collecting box, emptying hydraulically, with low-wear skids | |
| Housing | sealed all around by shock-resistant, stable plastic, side plates can be put up for sweeping flush to the wall | |
| Frame | 5 mm zincd, hydraulically pivoting, NO side brush necessary | |
| Tyres | 3 big and stable tyres with greasable slew rings | 4 big and stable tyres with greasable slew rings |
| Drive | gerotormotor | |
| Weight | ca. 410 kg | ca. 440 kg |
| Mounting options | rear or front attachment possible because of different adapter plates, attachment on different tractors and loaderes possible | |

(Technical data are approximate and non-binding.)



Attaching sweeper „Perfekt“ - industrial edition

For rear AND/OR front attachment:
 - Perfekt 1800 industrial edition
 - Perfekt 2500 industrial edition

Industrial edition

Advantages and characteristics

- more powerful industrial edition of attaching sweeper „Perfekt“, it is extremely stable and robust
- designed for working under heavy conditions
- 10 mm strong and zined frame
- with 4 heavy-duty tyres



You will find the video of Perfekt 1800/ Perfekt 2500 right here!

| Type of machine | Perfekt 1800 industrial edition | Perfekt 2500 industrial edition |
|-------------------|--|---------------------------------|
| Working width | 1800 mm | 2500 mm |
| Diameter of brush | 600 mm | |
| Brush | pendulum suspence for ideal ground adaptiong, automatically relieve of brush | |
| Collecting box | depth = 430 mm; big collecting box, emptying hydraulically, with low-wear skids | |
| Housing | sealed all around by shock-resistant, stable plastic, side plates can be put up for sweeping flush to the wall | |
| Frame | 10 mm zined, hydraulically pivoting, NO side brush necessary | |
| Tyres | 4 big and stable heavy-duty tyres with greasable slew rings | |
| Drive | gerotormotor | |
| Weight | app. 410 kg | app. 440 kg |
| Mounting options | rear or front attachment possible because of different adapter plates, attachment on different tracotrs and loaders possible | |

Adapter plates for attaching sweepers „Optimal“ and „Perfekt“

Mounting at different tractors and loaders is possible quickly and without any problems because of different adapter plates:

- Universal (primed)
- EURO (zincd)
- Weidemann standard (zincd)
- Weidemann hydraulical (zincd)
- Fork-Lift (zincd)
- Three-point (zincd) - for „Perfekt“
- Manitou (zincd)
- Avant (zincd)
- Schäffer (zincd)
- Schäffer 645 (zincd)
- GIANT (zincd)



Fig.: Adapter plate GIANT at Optimal 1600, front attaching



Each attaching sweeper is equipable with additional side brush.

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