

75
YEARS

 **KÄRCHER**

Industrial cleaning equipment

March 2011



Kärcher industrial floor maintenance machines

Sweepers



Kärcher sweepers are available in walk-behind and ride-on models and are recommended for commercial and industrial applications. Ride-on machines are more economical where it is necessary to clean up to 150,000 square feet per hour.



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Walk-behind automatic scrubbers



Kärcher walk-behind automatic scrubbers offer a decisive economical advantage over conventional scrubbing, for surface areas of up to 28,800 square feet per hour.



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Ride-on automatic scrubbers



Working while seated is simply less tiring and more economical on surfaces of 38,000 to 78,000 square feet per hour. Kärcher ride-on scrubbers are designed for cleaning large areas, but they can also replace large walk-behind machines in supermarket aisles, manufacturing plants, warehouses, hospitals and exhibition halls.



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Broad range of applications

From push sweepers to industrial and city cleaners, Kärcher vacuum sweepers are built to the latest engineering standards. Designed for rugged reliability, they incorporate highly efficient sweeping and vacuum technology. Kärcher machines clean indoor and outdoor areas effectively and economically.



Facility maintenance for manufacturing

The use of walk-behind battery powered sweepers ensures convenient and dust-free sweeping.



For all indoor areas

Our battery-powered sweepers are used where low emissions and low noise are important concerns. Units are available for narrow corridors or large areas.



Warehouse & Distribution

Highly maneuverable, easy-to-operate ride-on sweepers are ideal for larger environments. Riding instead of walking is an easy way to increase productivity.

Sweepers for indoors and outdoors

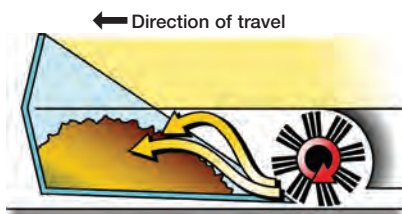
Sweeping principles

• Direct Throw

In this system the cylindrical roller brush sweeps the dirt into a forward-mounted hopper.

The benefits are:

- Better sweeping of small particulate.
- More usable life on main broom.
- Better sweeping of heavy debris.



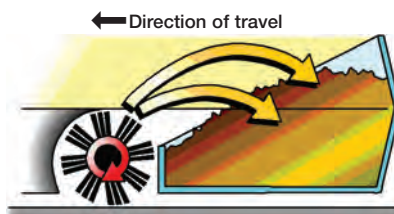
Dustpan-and-brush principle
utilizes 40-50% of capacity

• Overthrow principle

In this system the cylindrical brush rotates at a higher speed and throws the debris up and back into a trailing hopper.

The benefits are:

- Up to 85-100% of capacity is utilized.
- Collection of large items (e.g. cans, stones) through wide opening bulk waste flap presents no problems.

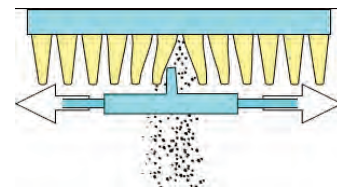


Overthrow principle
utilizes 85-100% of capacity

Filter technology

Efficient fine dust filtration goes hand in hand with advanced sweeping technology. The filter and cleaning systems used in all Kärcher vacuum sweepers are based on Kärcher patents and offer the following benefits:

- Simple filter replacement.
- Filter made of washable polyester fabric for minimum maintenance.
- Efficient manual or automatic filter shaker systems for long periods of uninterrupted operation.



Economical and efficient on medium to large areas

Due to their excellent maneuverability, ride-on machines can also be used in areas where it is necessary to clean around obstacles.

Rugged, dependable walk-behind sweepers

Compact, maneuverable and ruggedly built.



Ergonomic design. An ergonomically designed handle ensures maximum control and maneuverability. A clearly arranged control panel makes operation of the machine simple.



Removable hopper. A large-capacity hopper (2 cubic feet), removable for easy emptying.



Washable filter. Durable, washable polyester filter for dust control.



KM 85/50 W Bp Adv

- Adjustable side brush and main broom
- Double-walled, impact resistant chassis
- Infinitely variable travel drive

Features

- Traction drive
- Main brush settings fixed/floating
- Patented filter shaker system
- Removable hopper
- Bulk waste flap
- Battery and charger

Technical Data		KM 85/50 W Bp Adv
Drive		DC motor
Max. Performance	ft ² /hr	52,300
Working Width	in.	34
Container Capacity	cubic feet	2
Sweeping Speed	mph	2.76
Filter Area	ft ²	22.6
Battery	V	24
Weight	lbs	390
Dimensions (L x W x H)	in.	53.3 x 35.8 x 45.2

Continuous-duty applications

Comfortable and easy to operate, with adjustable driver's seat, perfect to sweep on large outdoor and/or indoor areas.

Easy to operate. Hopper is emptied both sides, making the weight less. Filter and main broom are changed in no time. The polyester filter is washable and cleaned automatically every time the sweeper is switched off.



Automatic filter cleaning. A filter with an area of 64.5 ft² is cleaned automatically every time the sweeper is switched off, and a large 26.4 gallon hopper allows long periods of uninterrupted sweeping.



Low maintenance. Side brush and main broom feature electric drive and are controlled pneumatically. That means the machine requires less maintenance and is more reliable. Parking brake is activated automatically when the sweeper is switched off.



Adjustable brushes. Side brush automatically swings outwards when lowered for fast and thorough sweeping of corners and other areas. The main broom can be set to two positions: A free-floating position to achieve optimum sweeping results on uneven surfaces, and a fixed position for minimum wear on smooth flat surfaces.



KM 100/100 R Bat

- No cables that require maintenance
- Automatic filter cleaning

Features

- Main brush settings fixed/floating
- Patented filter shaker system
- Indoor/outdoor use

Technical Data		KM 100/100 R Bat
Drive		DC motor
Max. Performance	ft ² /hr	84,000
Working Width	in.	40
Container Capacity	cubic feet	3.5
Sweeping Speed	mph	3.8
Filter Area	ft ²	64.5
Battery	V	24
Weight	lbs	1,190
Dimensions (L x W x H)	in.	60.6 x 35.4 x 53.1

Designed for tough applications with high dump

Ideal for applications in areas of 25,000 square feet or more. The battery operated KM 120/150 R with hydraulic hopper dump operates up to 4.5 hours on one charge.

Simple to operate. All drive and sweeping functions are controlled with a single switch.



Large round filters ensure a **99.9% dust retention rate.** The filters are cleaned automatically every time the engine is turned off. Filter cleaning can also be activated by a push button on the control panel.



High Dump. Hydraulic container lift dumps to the rear at any height between 1 to 5 feet.



An adjusting screw enables the speed of the **side brushes** to be varied to suit the type of sweeping



KM 120/150 R

- Rugged construction and design
- Ergonomically designed for operator comfort
- Separate flap in hopper for manual disposal

Also available in Gas/LP



KMR 1700 B/Lpg

- For heavy-duty applications
- Water-cooled industrial engine
- Weatherproof cab available

Features

- Hydrostatic drive
- Adjustable side brush speed
- Power-assisted steering
- Hydraulic lift (front/back)
- Dual Fuel Gas/LP



Features

- Main brush settings fixed/floating
- Battery/charger on board
- Puncture proof tires
- Hydraulic lift
- Indoor/outdoor use

Technical Data		KM 120/150 R Bat	KMR 1700 B/Lpg
Drive		DC motor	Kubota Engine
Max. Performance	ft ² /hr	78,000	151,000
Working Width	in.	48	55
Container Capacity	cubic feet	5.3	10.6
Sweeping Speed	mph	3.8	6.2
Filter Area	ft ²	96.8	97
Battery	V	24	—
Weight	lbs	1036	2689
Dimensions (L x W x H)	in.	74.8 x 48.1 x 54.7	90.9 x 59.4 x 56.2

Our most powerful walk-behind scrubber

The largest and most effective machine by Kärcher in its class. Extensive and demanding cleaning tasks are done easily. Its extremely rugged design makes it perfectly suitable for industrial use.

Long run times. Aqua-Mizer extends times between refills by using the cleaning solution more efficiently.



Quick maintenance. Uncomplicated access to brushes and batteries without tools. Recovery tank is easily cleaned.



Easy to use: Intuitive control panel reduces operator training.



Good overview. Engineered sight lines enable an optimal view of the area to be cleaned.



BD 80/120 W

- Curved squeegee for efficient water pick up
- Rugged design for industrial applications
- Long run time
- Water-saving features

Features

- Disc brush
- Traction drive

Technical Data		BD 80/120 W
Cleaning Path	in.	32
Squeegee Width	in.	40
Tank, Solution/Recovery Water	gal.	23/25
Max. Area Performance	f ² /h	28,800
Brush Rotation Speed	rpm	200
Brush Contact Pressure		0-150
Battery	V	36
Weight	lbs	375
Dimensions (L x W x H)	in.	62 x 28 x 45
Battery	V	36

Powerful and productive ride-ons for industrial use

Compact, with a tight turning radius and big solution tanks, these rugged ride-on scrubbers with long battery run times are suited to larger cleaning applications.

Large capacity. The large filler opening and convenient height of the 37 gallon solution/recovery water tank make filling and cleaning easy. Tank-in-tank system helps minimize overall machine dimensions and provides a high capacity at the same time.



For continuous-duty operation. Durable fan and additional flat pleated filter.



Maximum water pick up. A water guide rail feeds the dirty solution to the squeegee. This ensures dry floors even in tight corners.



Automatic electronic control of brush contact pressure. The optimum setting for each floor covering can be selected by simply pressing a button. Three cleaning settings allow brush speed to be adapted to each cleaning application.



BR 90/140 R

- Wide 36" scrubbing width
- 3 brush speeds
- Large 37 gallon solution and recovery tank capacity for increased productivity
- Powerful battery for up to 4.5 hours of uninterrupted operation

Features

- Cylindrical brush
- Automatic water stop
- Long-life vacuum motor
- Battery and charger

Technical Data		BR 90/140 R
Cleaning Path	in.	36
Squeegee Width	in.	38
Tank, Solution/Recovery Water	gal.	37/37
Max. Area Performance	ft ² /hr	38,750
Brush Rotation Speed	rpm	500-1100
Brush Contact Pressure	lb	251
Battery	V	24
Weight w/Batteries	lbs.	1212
Dimensions (L x W x H)	in.	61 x 37 x 52.7

Ride instead of walk

Ride-on models for decreased operator fatigue in larger cleaning applications. Rugged and highly maneuverable, they provide long uninterrupted work periods and low water consumption.

Recovery tank is easily cleaned. Large opening for easy access to clean the tank.



Attached hopper. Dirt is swept into the hopper to avoid blockage in the vacuum system. No need to pre-sweep.



Very small turning radius. Only 87 clearance necessary to turn between walls.



Higher performance. The increased working width (BR 120/250) allows for 20% improved cleaning productivity.



Features

- Cylindrical brush
- DOSE Optional
- Adjustable steering wheel
- Two sizes to accommodate your cleaning needs



Technical Data		BR 100/250	BR 120/250
Cleaning Path	in.	40	48
Squeegee Width	in.	47	55
Tank, Solution/Recovery Water	gal.	66/66	66/66
Max. Area Performance	f ² /h	65,000	78,000
Brush Rotation Speed	rpm	600-1200	600-1200
Brush Contact Pressure	lb	300	300
Battery	V	36	36
Weight w/Batteries	kg	2756	2800
Dimensions (L x W x H)	in.	75 x 43 x 61	75 x 50 x 61

Comprehensive range of products for hard surface cleaning

Kärcher scrubbers are the optimum choice. They are ideal for cleaning and maintaining hard floors. The Kärcher product range covers most specific requirements, such as working close to edges or cleaning large surfaces.

Cylindrical or Disc Brush?

Benefits of the cylindrical brush:

- Up to six times higher contact pressure.
- Thorough cleaning action even on structured surfaces.

Benefits of the traditional time-proven disc brush technology:

- Long floor contact time for high sheen surfaces.
- Maintenance cleaning of smooth surfaces.

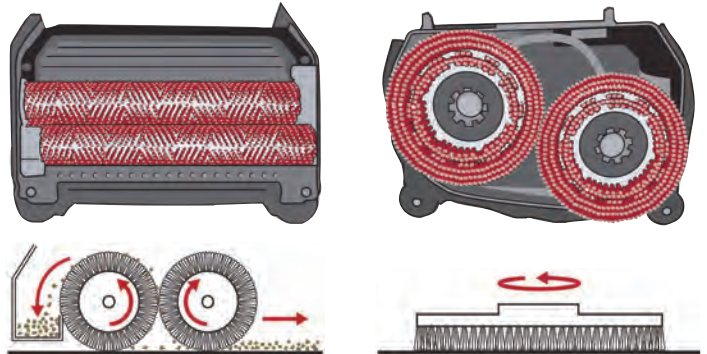


Image	Description	BD 80/120 W	BR 90/140 R BAT	BR 100/250 R	BR 120/250 R Bp	KMR 1700
	Disc Brush, Soft, 406 mm, Black	8.600-032.0				
	Disc Brush, Medium, 406 mm, Blue	8.600-030.0				
	Disc Brush, Hard, 406 mm, Grey	8.600-034.0				
	Roller Brush, Very Hard, Black, for deep cleaning		6.906-252.0 (800 mm)	6.906-996.0 (900 mm)	6.906-856.0 (1200 mm)	
	Roller Brush, Soft, White, for maintenance cleaning or polishing		6.906-010.0 (800 mm)	6.906-993.0 (900 mm)	6.906-855.0 (1200 mm)	
	Roller Brush, High-Low, Orange, for structured floors		6.906-009.0 (800 mm)	6.906-994.0 (900 mm)	6.906-854.0 (1200 mm)	
	Roller Brush, Hard, Green, for deep cleaning		6.906-008.0 (800 mm)	6.906-757.0 (900 mm)		
	Roller Brush, Medium, Red, for all surfaces		6.906-007.0 (800 mm)	6.906-938.0 (900 mm)	6.906-853.0 (1200 mm)	
	Roller Pad Shaft		4.762-189.0 (800 mm)			
	Roller Pad, Medium, Red, for maintenance cleaning		6.369-456.0 (105 mm)			
	Roller Pad, Hard, Green, for deep cleaning		6.369-455.0 (105 mm)			
	Roller Pad, Soft, Yellow, for polishing		6.369-454.0 (105 mm)			
	Standard main roller brush, moisture-proof universal bristles, standard brush for indoor and outdoors					6.906-076.0 (1100 mm)
	Soft, main roller brush, moisture-proof, for fine dust on all indoor and outdoor surfaces					6.906-135.0 (1100 mm)
	Hard, main roller brush, moisture-proof, removes stubborn outdoor dirt					6.906-136.0 (1100 mm)
	Main roller brush, easily removes large amounts of fine material like sand for indoor and outdoors					6.906-198.0 (1100 mm)

Next generation AGM Batteries

The greener, maintenance-free choice

- 100% maintenance-free. Never need to check or refill water.
- Greener and safer.
- Eliminates hydrogen sulfide off-gassing during charging.
- Eliminates acid spills and corrosion.
- Reduce cost over the life of the battery.
- Longer battery life.
- Equal to or longer run times.
- Made from up to 80% recycled material, 97% recyclable.
- Does not require ventilated storage room.

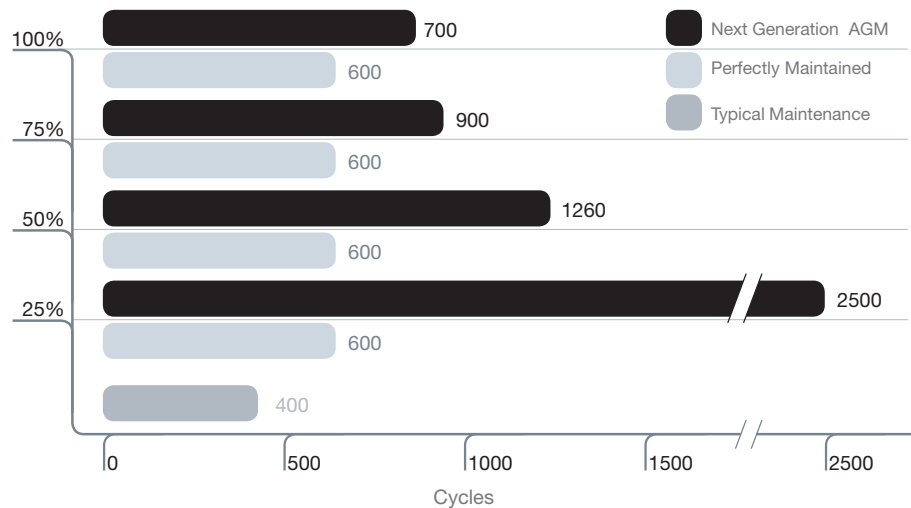


Next generation AGM provides longer battery life

Battery longevity is typically measured by how many charging cycles they can accept. (A cycle is one discharging and recharging of a battery.) "Opportunity charging" is recharging a battery before it is fully discharged. Any time you recharge a flooded lead acid battery, regardless of whether you have discharged 25% or 100% of the available charge, it counts as a cycle.

With AGM, there is very little penalty in battery life for opportunity charging, so you get longer life from your batteries.

Charge cycle comparison

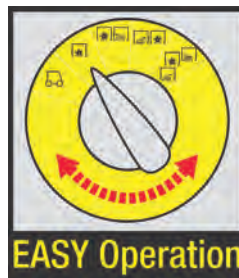


FACT
Flexible Application
Control Technology

Flexible Application Control Technology (FACT)

Innovation in roller brush technology:
The roller brush speed adjusts to suit the cleaning task.

- **Power clean:** Powerful cleaning action. Removes stubborn dirt and stains containing grease. Also suitable for stripping.
- **Whisper clean:** Reduces noise level. Suitable for normal soiling. Also reduces current consumption over long periods of operation.
- **Fine clean:** Tested for optimized removal of film from the fine stoneware tiles which are now used increasingly in supermarkets and shopping malls.



EASY Operation

- A simple operating principle for automatic sweepers & scrubbers.
- Applies to other machines: once the principle is understood, all other scrubbers can be operated without additional training.
- Easy to learn because symbols are self-explanatory.
- Increased machine running times because operating errors are avoided.
- Machine's total service life is increased.
- Greater efficiency due to cleaning programs that are designed for specific applications.

Industrial Cleaning Equipment



MODELS		KM 85/50 W Bp Adv	KM 100/100 R BAT	KM 120/150 R BAT	KMR 1700 B/Lpg
Technical Data					
Cleaning width	in.	34	40	48	55
Performance	ft ² /hr	52,300	84,000	93,600	151,000
Container Capacity	ft ³	2	4.1	6.1	10.6
Sweeping Speed	mph	4.5	3.8	3.8	6.2
Filter Area	ft ²	22.6	64.5	96.8	97



MODELS		BD 80/120 W	BR 90/140 R	BR 100/250 R	BR 120/250 R
Technical Data					
Cleaning Path	in.	32	36	40	48
Squeegee Width	in.	40	38	47	55
Tank (Sol. / Rec)	gal.	23/25	37/37	66/66	66/66
Max Area Perf.	f ² /h	28,800	38,750	65,600	78,000
Brush Rot. Speed	rpm	200	500-1000	600-1200	600-1200

YOUR AUTHORIZED KÄRCHER DEALER:



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