

*Cleaning Technology
Municipal Technology
Waterjet Technology*

Hako



Cleaning Technology
Cleanliness without compromise

High-tech. Service. Management.



Where people go shopping, cleanliness is a matter of image.

Where people are working, cleanliness is a matter of safety.

Where people are being treated and cared for, hygiene is vital.

Hako ensures clean conditions – on floors and surfaces, both in- and outdoors.



We develop cleaning technology that meets our customers' growing demands – now and in the future. One good example is our product programme of ride-on Scrubmasters, which are available in various sizes with different outputs and working widths as well as a wide range of optional extras for individual configuration.

Performance redefined

Sweeping, vacuum sweeping, scrubber-drying: We develop cleaning technology products that meet the most exacting requirements. Our focus is always the same: maximum customer satisfaction. By keeping in mind the specific requirements for carrying out individual tasks when developing our products, our machines enable both efficient and flexible working and are comfortable to use. Innovative ideas, outstanding service competence and our high quality standards are the key drivers of our success. This is how a high-quality product becomes a perfect solution that meets every challenge with superior performance. Or as we call it: Cleanliness without compromise.

Always the best solution

As the requirements put on modern cleaning technology continue to increase, so do the opportunities we are able to offer our customers. We continuously work on further developing our walk-behind and ride-on sweepers, vacuum sweepers, scrubber-driers and combi machines in order to provide best possible solutions in the field of indoor and outdoor cleaning. Setting new standards in terms of performance and user comfort, our latest development – the new Scrubmaster B400 R Series – offers a broad range of application options with unprecedented possibilities for the professional cleaning of very large areas. By offering innovative solutions, matching accessories and services as well as a wide range of procurement alternatives, we make sure that our machines are perfectly in tune with our customers' individual applications and requirements. In this vein, we offer solutions that fit perfectly: to every task at hand, to each customer, at any time.

Contents

Technology of tomorrow	4
Product overview	6
Sweepmaster (Walk-behind sweepers and vacuum sweepers)	8
Sweepmaster (Ride-on vacuum sweepers)	10
Scrubmaster (Walk-behind scrubber-driers)	12
Scrubmaster (Ride-on scrubber-driers)	14
Scrubmaster B400 R Series (Ride-on scrubber-driers and combi machines)	16
Performance X-AC	18
Quick-Connect-System	19
PowerBoss vacuum sweepers and combi machines	20
Cleanserv industrial wet and dry vacuum cleaners	21
Cleaning detergents and dosing systems	22
Hako Fleet Management	24
Procurement alternatives	26
Service	27



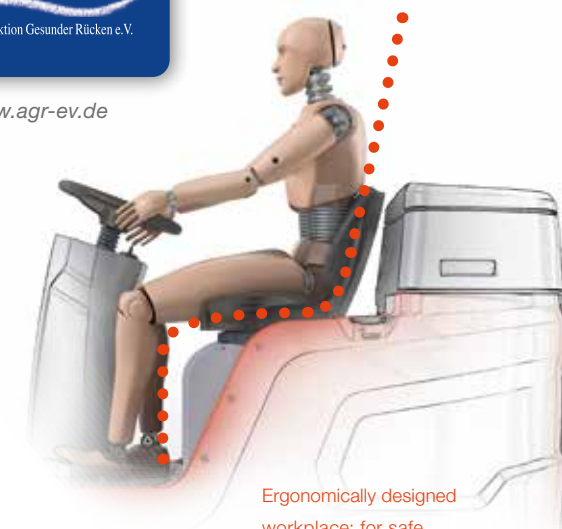
Cleaning Technology of the future:
the Scrubmaster B45 i – Hako's prototype
of an autonomous cleaning machine.

Technical benefits in every detail

Hako machines are equipped with elaborated technical features to provide maximum safety and ease-of-use. Components such as brushes and sweeping units can be changed quickly and easily. All operating displays are clearly arranged and provide detailed information on the cleaning functions and the battery status. Both the on-board chargers and batteries can be charged at any conventional power outlet.



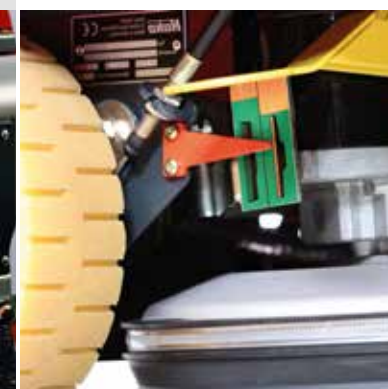
www.agr-ev.de



Ergonomically designed
workplace: for safe,
fatigue-free working.

Technology of tomorrow

The requirements for cleaning technology are constantly increasing. Hako designs and manufactures machines that meet all practical demands: they are cost-efficient, user-friendly and safe – and particularly ergonomic and comfortable.



Cleanliness combined with
safety: Our machines meet
the highest demands.



Everything at a glance: the large colour display provides
quick and clear information about necessary activities.

Intuitive, clear, direct:
Pictograms on the operating
panel enable a quick overview
and make it easy to select
the functions – in every work
situation. Another feature
providing ease-of-use: the
1-button operating system
activates all the cleaning func-
tions at the push of a button.

Provides more safety when
handling chemicals:
Depending on the quantity of
water applied in the cleaning
process, the on-board dosing
system automatically adds
just the right amount of cleaning
detergents – and the system
is fully integrated into the
machine design.

Everything at a glance and within easy reach

Sufficient material thickness of the brushes and pads is essential to ensure permanently good cleaning results. The mechanical wear indicator shows the operator when it is time to change the brush or pad. Scanning the QR code gives the user full access to the entire machine data on the operating panel. Even service orders can be placed directly from the cockpit.



We measure performance in m²/h

Cleaning machines for every challenge: from hygienic cleanliness in retail areas to dirt-free hangar floors – perfectly adapted to the tasks and floor surfaces at hand.



Sweepmaster sweepers and vacuum sweepers, walk-behind, ride-on with high dump or take-it-easy dump

Sweepmaster sweepers and vacuum sweepers

- Walk-behind sweepers and vacuum sweepers with area performances of between 2,300 and up to 4,350 m²/h
- Ride-on vacuum sweepers with area performances of up to 16,200 m²/h
- Superior cleaning performance for both in- and outdoor areas
- Powerful filter systems provide reliable dust control
- Service- and maintenance-friendly



Scrubmaster scrubber-driers, walk-behind, ride-on and combi machines

Scrubmaster scrubber-driers

- Ergonomically efficient wet cleaning. The machines provide area performances of between 1,400 and up to 14,000 m²/h
- Benefits both the environment and your budget: Hako-AquaControl for a more economical use of water and chemicals
- Innovative tank technology for long operating times
- Suitable cleaning components for every type of floor
- Service- and maintenance-friendly



Cleanserv

Wet & dry vacuum cleaners

- With total outputs of up to 3,600 Watt
- From small and manoeuvrable to compact and powerful
- Areas of application: industrial and commercial facilities



PowerBoss Nautilus and Armadillo 9XR

Vacuum sweepers and combi machines

- With area performances of up to 25,000 m² per hour
- Powerful drive- and hydraulic motors
- Highly manoeuvrable
- Areas of application: large floor surfaces, from logistic facilities and multi-storey car parks to the heavy industry sector



Reliably cleaned surfaces

Thoroughly removes dirt, dust and light debris: These are the tasks carried out by the machines of Hako's Sweepmaster product line. From a manual sweeper for cleaning small areas to vacuum sweepers providing area performances of up to 4,350 m² per hour, these compact walk-behind sweepers are the right choice when it comes to cleaning workshops and exhibition- or production halls as well as for light-duty outdoor cleaning operations. In addition to battery-powered versions, the models Sweepmaster 650 and 800 are also available with petrol-powered drives. Large-capacity dirt hoppers and powerful filter systems ensure highly efficient cleaning results.



Sweepmaster
Walk-behind sweepers and vacuum sweepers



Sweepmaster M600

Technical data		M600
Working width with 1 SB	cm	67
Theoretical area performance	m²/h	2,300
Manual drive		manuel
Working speed	km/h	4
Dirt hopper capacity	l	40
Length	cm	133-155
Width	cm	79
Height above the seat (handle bar)/overhead guard	cm	90-106
Total weight, ready for use	kg	24



Sweepmaster B500

Technical data		B500
Working width with 1 SB	cm	60
Theoretical area performance	m²/h	2,400
Manual drive		battery
Working speed	km/h	4
Dirt hopper capacity	l	40
Length	cm	80-100
Width	cm	70
Height above the seat (handle bar)/overhead guard	cm	60-120
Total weight, ready for use	kg	56



Sweepmaster 650

Technical data		650
Working width with 1 SB	cm	70,5
Theoretical area performance	m²/h	3,525
Manual drive		battery/petrol
Working speed	km/h	5
Dirt hopper capacity	l	35
Length	cm	120
Width	cm	68,5
Height above the seat (handle bar)/overhead guard	cm	71.5-100
Total weight, ready for use	kg	105-122



Sweepmaster 800

Technical data		800
Working width with 1 SB	cm	87
Theoretical area performance	m²/h	4,350
Manual drive		battery/petrol
Working speed	km/h	5
Dirt hopper capacity	l	50
Length	cm	120
Width	cm	85
Height above the seat (handle bar)/overhead guard	cm	71.5-100
Total weight, ready for use	kg	112-165



More cleanliness, less dust
The side broom jacket DustStop (option) reduces the development of dust and fine particulates during dry sweeping by up to 90% in comparison to conventional side brooms.



Scan the code to learn more about Dust Stop



Two working steps in a single cleaning pass

Hako's quick-connect system allows up-grading of the Sweepmaster models 900 R and 980 R/RH with a "light debris collector" tool. Coarse dirt can be picked up manually with a gripper directly from the machine and collected in the litter bin.

Sweeping and vacuuming while comfortably seated

Hako's range of ride-on vacuum sweepers comprises various different models: from a compact and highly manoeuvrable machine to a universal model providing an area performance of 16,200 m² per hour. Efficient dust filter systems provide a filtering degree of 99.5 %, the optimised vacuum system binds both dust and dirt particles effectively. The comprehensive range of accessories available offers customers the right solution for almost any sweeping task in trade and industry or in commercial contract cleaning.



Sweepmaster
Ride-on vacuum sweepers



Sweepmaster B800 R



Sweepmaster 900 R



Sweepmaster 980 R/RH



Sweepmaster 1200 RH



Sweepmaster 1500 RH



More cleanliness, less dust

The side broom jacket DustStop (option) reduces the development of dust and fine particulates during dry sweeping by up to 90% in comparison to conventional side brooms.



Scan the code to learn more about Dust Stop

Technical data		B800 R
Working width with 1 SB/2 SB	cm	89/110
Theoretical area performance	m²/h	5,340/6,600
Manual drive		battery
Working speed	km/h	6
Dirt hopper capacity	l	50
Length	cm	128
Width	cm	90.8-99.8
Height above the seat (handle bar)/overhead guard	cm	124
Total weight, ready for use	kg	282

Technical data		900 R
Working width with 1 SB/2 SB	cm	95/120
Theoretical area performance	m²/h	5,700/7,200
Manual drive		battery/petrol
Working speed	km/h	6
Dirt hopper capacity	l	60
Length	cm	150
Width	cm	100
Height above the seat (handle bar)/overhead guard	cm	133
Total weight, ready for use	kg	370-460

Technical data		980 R/RH
Working width with 1 SB/2 SB	cm	95/120
Theoretical area performance	m²/h	5,700/7,200
Manual drive		battery/petrol
Working speed	km/h	6
Dirt hopper capacity	l	60/75
Length	cm	150
Width	cm	100
Height above the seat (handle bar)/overhead guard	cm	133/200
Total weight, ready for use	kg	380-620

Technical data		1200 RH
Working width with 1 SB/2 SB	cm	116/147
Theoretical area performance	m²/h	9,300-13,200
Manual drive		battery/petrol/diesel
Working speed	km/h	8/9
Dirt hopper capacity	l	130
Length	cm	199.8
Width	cm	114.2
Height above the seat (handle bar)/overhead guard	cm	152/199.9
Total weight, ready for use	kg	763-1100

Technical data		1500 RH
Working width with 1 SB/2 SB	cm	127/162
Theoretical area performance	m²/h	10,200-16,200
Manual drive		battery/petrol/diesel
Working speed	km/h	8/10
Dirt hopper capacity	l	250
Length	cm	223
Width	cm	133.5
Height above the seat (handle bar)/overhead guard	cm	159/198.5
Total weight, ready for use	kg	1100-1715



Compact, fast, efficient

With a wide selection of different working widths, high area performances of up to 4,200 m2 per hour and numerous options providing increased working comfort, efficiency and hygiene, Hako's walk-behind scrubber-driers offer the best solution for every application. User-friendly operation, an optimal view onto the working area as well as the ergonomic design provide perfect working conditions. What's more, the model Scrubmaster B45 CLH meets even the highest hygiene requirements, for example when working in hospitals, nursing homes or the food industry.



Scrubmaster B45 CLH

Technical data		B45 CLH
Working width	cm	51
Theoretical area performance	m²/h	2,300
Number/type of brushes		1/disc brushes
Brush speed	RPM	210
Solution/recovery tank	l	42/42
Length with squeegee	cm	134.5
Width without/with squeegee	cm	56/86
Height	cm	111.6
Total weight, ready for use	kg	230

Scrubmaster
Walk-behind scrubber-driers



Solutions for hygiene-sensitive environments: Hako-AntiBac® equips the tank with antibacterial properties, and Hako-Aqua-Control saves up to 50 % water during the cleaning process.



Scrubmaster B/E8

Scrubmaster B12

Scrubmaster B30

Technical data		B/E8
Working width	cm	33
Theoretical area performance	m²/h	1,320
Number/type of brushes		1/cylindrical brushes
Brush speed	RPM	800
Solution/recovery tank	l	8/8
Width squeegee	cm	45
Battery capacity	Ah	10/20
Running time	min	60
Weight with/without battery	kg	30.5-37.7

Technical data		B12
Working width	cm	38
Theoretical area performance	m²/h	1,500
Number/type of brushes		1/disc brushes
Brush speed	RPM	130
Solution/recovery tank	l	16/22
Length with squeegee	cm	80
Width without/with squeegee	cm	47
Height	cm	-
Total weight, ready for use	kg	80

Technical data		B30
Working width	cm	43
Theoretical area performance	m²/h	1,700-1,900
Number/type of brushes		1/disc brushes
Brush speed	RPM	210
Solution/recovery tank	l	30/30
Length with squeegee	cm	126,5
Width without/with squeegee	cm	50/76
Height	cm	109.5
Total weight, ready for use	kg	179-190



Scrubmaster B45

Technical data		B45
Working width	cm	43-65
Theoretical area performance	m²/h	1,700-2,900
Number/type of brushes		1-2/disc brushes/ cylindrical brushes
Brush speed	RPM	170-210/800
Solution/recovery tank	l	42/42
Length with squeegee	cm	123.5-136.5
Width without/with squeegee	cm	50-67/76-95
Height	cm	111.6
Total weight, ready for use	kg	204-240



Scrubmaster B70

Technical data		B70
Working width	cm	60-85
Theoretical area performance	m²/h	3,000-4,200
Number/type of brushes		1-2/disc brushes/ cylindrical brushes
Brush speed	RPM	185/850
Solution/recovery tank	l	72/74
Length with squeegee	cm	153-171
Width without/with squeegee	cm	68-88/95-110
Height	cm	115
Total weight, ready for use	kg	325-393



Scrubmaster B90 CL

Technical data		B90 CL
Working width	cm	60-85
Theoretical area performance	m²/h	3,000-4,200
Number/type of brushes		1-2/disc brushes/ cylindrical brushes
Brush speed	RPM	185/850
Solution/recovery tank	l	85/85
Length with squeegee	cm	164
Width without/with squeegee	cm	68-88/95-110
Height	cm	115
Total weight, ready for use	kg	415-480



Scrubmaster

Ride-on scrubber-driers



Scrubmaster

“Right of way” for cleanliness

Working widths of between 55 and 123 cm. For narrow aisles in high-bay warehouses or large halls. Scrubbing and drying or sweeping and vacuuming in a single work process. An ergonomic workplace with superior operating comfort and an optimal view onto the working area. Thanks to their sophisticated technology, Hako’s ride-on scrubber-driers can clean between 3,000 and 8,600 m² of floor space per hour – for a wide range of possible applications.

Excellent combination

Optionally available for the Scrubmaster models B175 R and B260 R: the pre-sweep unit collects loose dirt prior to wet-cleaning the floor to save laborious pre-cleaning. The overhead guard provides increased safety.



Different brush units for every type of floor

Our product programme offers the right brush unit for every type of floor: from a cylindrical brush unit with additional pre-sweep function for coarsely structured floors to disc brush units for smooth or medium structured floors, plus a wide range of brushes and pads, including microfibre.



Scrubmaster B75 R



Scrubmaster B120 R



Scrubmaster B175 R



Scrubmaster B260 R

Technical data		B75 R
Working width	cm	55-65
Theoretical area performance	m²/h	3,000-3,500
Number/type of brushes	1/2/disc brushes	
Brush speed	RPM	180
Solution/recovery tank	l	75/75
Length with squeegee	cm	147
Width without/with squeegee	cm	72-76/86
Height	cm	121
Total weight, ready for use	kg	389-447

Technical data		B120 R
Working width	cm	70-90
Theoretical area performance	m²/h	4,800-5,800
Number/type of brushes	2/disc brushes/ cylindrical brushes	
Brush speed	RPM	210/850
Solution/recovery tank	l	120/120
Length with squeegee	cm	167
Width without/with squeegee	cm	81-95/96-112
Height	cm	148
Total weight, ready for use	kg	707-738

Technical data		B175 R
Working width	cm	85-108
Theoretical area performance	m²/h	5,950-7,560
Number/type of brushes	2/disc brushes/ cylindrical brushes	
Brush speed	RPM	210/850
Solution/recovery tank	l	175/175
Length with squeegee	cm	189
Width without/with squeegee	cm	94-112/ 113-129
Height	cm	145/208
Total weight, ready for use	kg	1,000-1,040

Technical data		B260 R
Working width	cm	108-123
Theoretical area performance	m²/h	7,560-8,610
Number/type of brushes	2-3/disc brushes/ cylindrical brushes	
Brush speed	RPM	210/640
Solution/recovery tank	l	260/260
Length with squeegee	cm	202
Width without/with squeegee	cm	115-129/129
Height without/with FSD	cm	149/209
Total weight, ready for use	kg	1,350-1,410

AGR

Aktion Gesunder Rücken e.V. www.agr-ev.de

Hako’s ride-on scrubber-driers Scrubmaster have been designed as mobile, ergonomic workplaces. They are the first ride-on scrubber-driers worldwide to have been awarded the AGR (Aktion Gesunder Rücken e.V.) quality label for their back-friendly overall machine concept.





Scrubmaster B400-R-Line

Full flexibility for very large areas

Configurable in every detail

The demands put on professional cleaning technology products are just as individual as their application areas. Each of our Scrubmaster B400 R Series models can therefore be upgraded with a wide range of individual extras and tools – for more efficiency, flexibility and safety at work.

Everything on board

Optional on-board features such as a dosing system or a high-pressure cleaner extend the machines' application options while ensuring prolonged and economically efficient working.

More safety at the workplace

To ensure the operator's safety, the machines can be equipped with additional extras such as an overhead guard or a BlueSpot work light.



The new Scrubmaster B400 R Series ensures long, uninterrupted working and a high area performance of up to 14,000 m²/h: thanks to the 400-litre solution and recovery tank as well as the maximised battery capacity provided by the optional battery changing system. Equipped with a 3-disc-brush unit, which is available in working widths of 123 cm or 155 cm, and many extras as a standard, this new machine series is ready for any major cleaning task.

Scrubmaster		B400 R/RM/RH 1230	B400 R/RM/RH 1550
Working width scrubbing	cm	123	155
Squeegee width	cm	136	166
Theoretical area performance	m ² /h	11.000	14.000
Max. climbing capacity in cleaning mode without/with X-AC	%	6/15	6/15
Working speed	km/h	8-9	8-9
Brush system/number of brushes		Teller/3	Teller/3
Brush pressure	kg	55/75/95	80/110/140
Solution and recovery tank capacity	l	400	400
Take-it-Easy system/manual emptying* High dump**	l	2 x 44 150	2 x 44 150
Nominal voltage	V	36	36
Total output	kW	14,7	16
Battery capacity max.	Ah	540/810	540/810
Length with squeegee	cm	202/281/281	202/281/281
Width without/with squeegee	cm	130/136	160/166
Height without/with overhead guard	cm	150/212	150/212
Weight, ready to use, without driver	kg	2.110/2.260/ 2.420	2.130/2.280/ 2.440
Noise level at the operator's ear	dB(A)	68/74/74	68/74/74

* Scrubmaster B400 RM
** Scrubmaster B400 RH



Scrubmaster B400 RH

Vacuum sweeper & scrubber-drier combi machine with high dump



Scrubmaster B400 RM

Vacuum sweeper & scrubber-drier combi machine for manual emptying with Take-it-Easy system



Scrubmaster B400 R

Scrubber-drier



Automated, practical, efficient!

The automated high dump saves time and protects the operator from coming into contact with dust and dirt.



Cleans inclines of up to 15 %



Performance X-AC

Thanks to the optional X-AC front and rear drive, our Scrubmasters can effortlessly clean ramps and inclines without any loss of performance - no extra manual cleaning necessary.

X-AC front and rear drive

Powerful performance on inclines of up to 15 % in cleaning mode

Excellent performance also on inclines

Scrubmaster ride-on scrubber-driers can be equipped with an electronically modulating X-AC front and rear drive, which provides improved traction in cleaning mode. Our X-AC variants can effortlessly clean ramps and inclines without any loss of performance. This enables cleaning not only of level floors but also of ascending and descending surfaces in a single cleaning pass, which saves both time and costs.

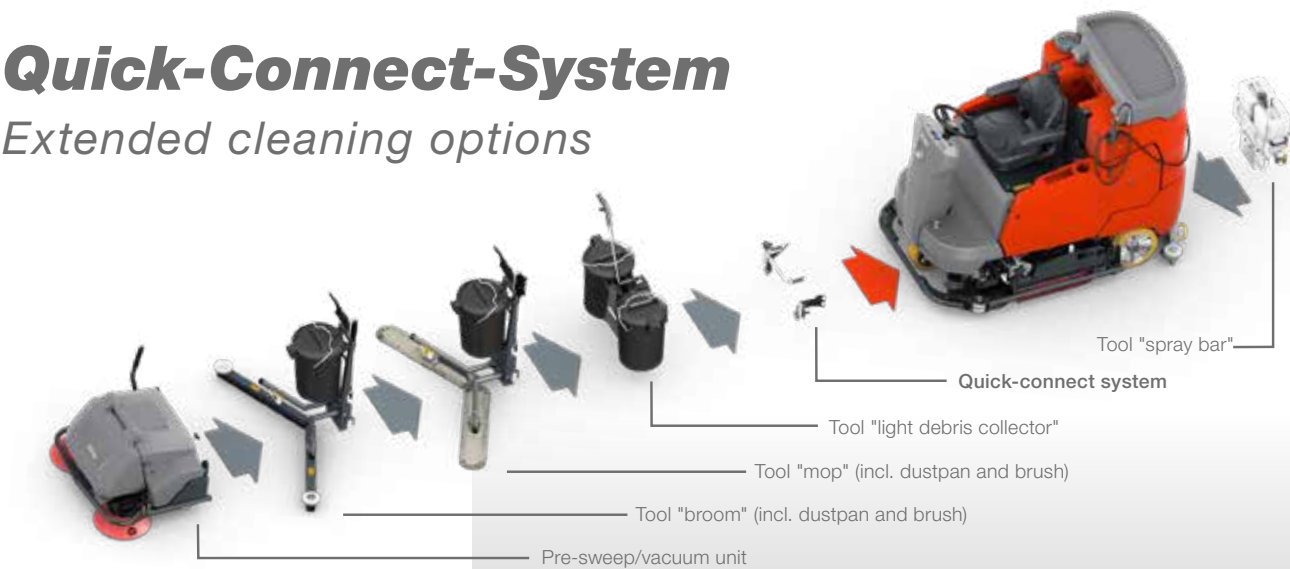
X-AC front and rear drive variants



X-AC	B175 R	B260 R	B400 RH	B400 RM	B400 R
Disc brush 900 mm	•				
Disc brush 900 mm + pre-sweep/vacuum unit	•				
Cylindrical brush + side broom	•				
Cylindrical brush + pre-sweep/vacuum unit	•				
Disc brush 1080 mm HD		•			
Cylindrical brush + side broom		•			
Cylindrical brush + pre-sweep/vacuum unit		•			
Disc brush 1230			•	•	•
Disc brush 1550			•	•	•

Quick-Connect-System

Extended cleaning options



System-based application diversity!

Hako's quick-connect system makes cleaning processes in certain environments even more efficient. It allows uncomplicated upgrading of vacuum sweepers and scrubber-driers with pre-cleaning tools and tools for special applications to carry out several working steps in a single cleaning pass. .

Cleaning and disinfecting with Hako

Selected Hako machines can also be equipped with tools for special applications installed at the rear of the machine to carry out various different cleaning tasks including surface disinfection or effortlessly removing oils spills and tyre marks.

	Scrubmaster					Sweepmaster
	B75 R	B120 R	B175 R	B260 R	B400 R	980 R/RH
Quick-Connect-System			•	•	•	•
Pre-sweep/vacuum unit			•	•		
Tool "broom"			•	•	•	
Tool "mop"			•	•	•	
Tool "light debris collector"			•	•	•	•
Tool "spray bar"	•	•	•	•		



When not in use, the tools "mop" and "broom" can swiftly be folded up and out of the way.



PowerBoss

Cleaning areas the size of 2.3 football pitches per hour

Both our diesel- and LPG-driven high-performance machines provide up to 25,000 m² of cleaned floor space per hour. Both the powerful hydraulic motors driving the cleaning brushes and the large high-capacity dirt hopper ensure long operating times and perfectly clean floors. For efficient in- and outdoor applications. The machines can easily manage inclines of up to 16 %.



Nautilus

Technical data		Nautilus
Working width	cm	114-152
Theoretical area performance	m ² /h	11,400-15,200
Number/type of brushes		2/cylindrical brushes
Brush speed	RPM	425
Solution/recovery tank	l	341-397/341-397
Length with squeegee	cm	241
Width without/with squeegee	cm	142
Height/overhead guard	cm	166/212
Total weight, ready for use	kg	2,177



Armadillo 9XR

Technical data		Armadillo 9XR
Working width with 1 SB/2 SB	cm	156/193
Theoretical area performance	m ² /h	20,300/25,100
Working speed	km/h	13
Dirt hopper capacity	l	600
Length	cm	279
Width	cm	152.4
Height above the seat (handle bar)/overhead guard	cm	147/220
Total weight, ready for use	kg	1,710



Cleanserv

Dry vacuums

Cleanserv

Wet and dry vacuums



Cleanserv S30 Pro



Cleanserv S45 Pro



Cleanserv S80 Pro

From the light-weight allrounder Cleanserv S 10 Eco to professional, high-performance vacuums equipped with many practical extras such as the Cleanserv S80 Pro: the new vacuum cleaners of our Cleanserv Series offer solutions for every cleaning requirement.

For professional indoor cleaning tasks

They polish marble to a shine or clean large and highly frequented carpeted floors: polishing machines as well as wet and dry vacuums for industrial and commercial use - from small, highly manoeuvrable models for office buildings and hotels, or industrial vacuums that effortlessly remove even oily fluids, to compact carpet cleaning machines.



Cleanserv

Single-disc polishing machines



Cleanserv PE53/1100



Cleanserv SD43



Cleanserv PB51/2000



Hako-AquaControl saves both water and chemicals

Cleaning and disinfecting with Hako

Hygiene is becoming more and more important, not only in particularly hygiene-sensitive environments. In order to fulfil the associated disinfection requirements as best as possible, Hako Scrubmasters can be equipped with additional tools for large surfaces or small details – from the manual application of disinfectants to automated cleaning and disinfecting in a single working step.



With many models, cleaning detergents can be added at the push of a button and only when necessary. Good for the environment – and for your budget.

Perfectly matched, optimally dosed

Perfectly matched cleaning detergents for every type of floor and every application: Whether cleaning sports facilities or hygienic sensitive areas such as hospitals or the shops of retail chains – our versatile and flexible cleaning machines are supplemented by a wide range of specialist cleaning chemicals to achieve optimum cleaning results.



Blue Competence is an initiative of VDMA (www.vdma.org). By engaging in this partnership, we are committed to comply with the twelve sustainability principles applied in the field of mechanical and system engineering (www.bluecompetence.net/about).



Hako has the right solution even for the highest demands in terms of hygiene.

More than clean results: Equipped with disinfection tools, Hako Scrubmasters make a valuable contribution to improving health and safety at the workplace and for the general public.



Hako-AquaControl

In addition to protecting the plastic material of the tank, this innovative, antibacterial feature reduces fungal and bacterial growth, which extends the tank's service life, improves hygiene, reduces odour development and minimises the use of tank cleaning disinfectants.



Hako-AquaControl

Saves up to 50% of water through intelligent brush systems and automatically stops the water supply when the machine comes to a standstill.



Hako-Chemical on Demand

With Hako-Chemical on Demand, cleaning chemicals are used only where absolutely necessary.



Hako-DaytimeCleaning

Hako's quick-charge technology provides longer operating times and interim charging at any conventional 230-V power outlet.



Hako-LowNoise

With clever features such as Silent-Kit, Hako ensures low-noise operation – a huge benefit when working in noise-sensitive environments such as hospitals or nursing homes.



Hako-LessChem

Saves cleaning detergents and protects the environment: prevents incorrect dosing and ensures reliably good cleaning results with only small amounts of chemicals used – thanks to Hako's dosing and filling systems.



Hako-Fleet-Management: Optimise your resources

The larger the number of machines in your fleet, the more important is a good overview of all relevant key data. Hako-Fleet-Management records all relevant commercial and service-related data as well as the machines' current operating status and location, and compiles all information in a clear, at-the-glance overview, which can be retrieved from the web portal via any web-based system: on your PC, smartphone or tablet – 24/7 and in real time.



view.X supports economically efficient utilisation and management of your fleet. All evaluations are available online 24/7, and are easy to retrieve thanks to the tool's intuitive user interface.

- **Cost/budget management including comparison of budget figures with actual figures**
- **Service and maintenance history management**



- **At-the-glance overview of your fleet of machines**
- **Excel-compatible processing of machine data**
- **Transmission of service codes and machine status to regional field technicians when required**
- **Direct placing of service orders through the system**



view.X.live contains all data and information recorded by view.X. In addition, all operation-relevant data of your fleet of machines is transmitted "live" and then visually processed in the web portal. This information can be used as a performance record for clients.

- **Live transmission of operating times and current status of the machines**
- **Remote access to the machine**
- **Notification when service or maintenance intervals have been exceeded**
- **Live notification about machine availabilities through service and event codes**
- **Alarm function for periodic inspections/ maintenance tasks**



Operations Centre Smartphone:
Your machine data – accessible
at all times.



entry.X, our optional electronic machine access authorisation, completes the system and enables the machine operator to set up access accounts for authorised users. Working with the machine requires prior user identification via the I-Button.



data.X is an interface for authorised third-party suppliers of telemetric systems allowing local access directly at the machine. This tool provides access to raw operating data.



We are there for you 24/7

Coordinated by a GPS-controlled assignment planning system, Hako's 650 field technicians are available and on the road for you around the clock all across Europe to ensure maximum machine availability and minimum downtimes. Another bonus point is our highly efficient spare part logistics, which guarantees direct, over-night delivery of spare parts whenever needed. In addition, Hako-Service provides rapid on-site service to ensure that downtimes due to necessary machine maintenance are reduced to a minimum.



Our extensive network of authorised service partners: always close to our customers, Germany-wide.

Economically efficient cleaning

Buying? Renting? Leasing? Hako Finance offers customers interesting options to finance their cleaning machines, tailored to the client's individual requirements. This offer includes special financing models that can be perfectly adapted to seasonal or project-oriented conditions and demands. Or all-inclusive solutions offering financing, maintenance and insurance, all from a single source. Another clean solution made by Hako.



Service you can rely on

Our sales and service organisation is one of our biggest plus points. We are always in your close vicinity, offering qualified expert advice and reliable service. All around the clock. To ensure trouble-free operation – and to give you a good feeling.



Every day and all around the clock – our service technicians are available when needed.



Leasing options – customised to meet individual customer requirements.

Rental contract ALL-IN-plus: financing, maintenance and insurance included!

Hire-purchase – customised monthly payments in line with your liquidity.

Adapt your rental payments to your seasonal earnings.

Hako



Always one step ahead

To make sure our solutions still meet the requirements of tomorrow, we constantly develop them further: in close cooperation with users, focussed on current trends and by considering future requirements. That is why we keep pushing our research and development further towards efficiency-enhancing and more environmentally-friendly measures as well as important future topics such as digitised processes and autonomous driving.



Hako: Your strong partner also in the field of Municipal Technology

We offer a comprehensive solution programme in the professional outdoor cleaning segment: from flexible, highly manoeuvrable city sweepers and compact, multifunctional implement carriers and transporters for all-season use to efficient waterjet technology for industrial and commercial application.

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Blue Competence is an initiative of VDMA (www.vdma.org). By engaging in this partnership, we are committed to comply with the twelve sustainability principles applied in the field of mechanical and system engineering (www.bluecompetence.net/about).