

Hako

Superior technology
for industrial cleaning

Automatic scrubber-driers Hakomatic E/B 450/530

**New
introductory
models**
at interesting prices



Extremely manoeuvrable as a result of the central guide wheel. Compact build. Easy to operate.

Hako –
perfect from
product
to service.

"Hako" stands for: Advantages from top to bottom, inside and out.



Easy steering, excellent handling:

As a result of the central guide and support wheel located at the centre of the brush and the extremely short construction the machine is particularly easy to handle and steer and it is highly manoeuvrable.



High area performance:

With flexible wall tank one tank filling is sufficient for up to 1.100 m² floor area. With filter wall tank (mesh size 75 µm) it is possible to reuse the cleaning solution two to three times in suitable applications.



Easy to operate:

All operational switches are within direct view and easy reach of the operator. Key switch to guard against unauthorized use. Hour meter depending on model.



Extremely economical:

The Hako-Aqua-Stop system enables water and cleaning agent to be concentrated on the surface of the brushes. This in turn results in a saving of up to 50% in terms of water and cleaning agents used.



The drive unit for the self-propelled models: infinitely variable choice of speed and ability to change from forward to reverse. Controlled from the handle bar.



The integrated battery charger available as an option enables the battery to be charged at any plug socket.



A hand-held scrubbing and vacuuming tool is available as an accessory. Enables thorough cleaning even on areas with restricted access.



Service-friendliness is a top priority: Easy access to all components.

Hakomatic E/B 450/530. For cheaper floor cleaning up to 2.400 m² cleanliness/hour.

You want
better performance

**The Hakomatic E/B 450/530
can offer:**

- Possibility of numerous different models based on one basic machine to provide economical equipment which exactly suits the application and meets customer requirements.
- Excellent cleaning performance as a result of the newly designed scrubbing tools with changed brush geometry for optimum adaption to the floor and excellent dirt removal.
- Optimum up-take of cleaning solution even when negotiating corners thanks to the parabolic squeegee with spring suspension.
- Superior battery technology i.e. 3 different battery systems (e.g. maintenance-free, PzS heavy-duty), running times of up to 2 hours, low discharge signal fitted as standard, integrated battery charger (option).

You want
increased comfort

**The Hakomatic E/B 450/530
can offer:**









- Easy guidance, excellent steering and high degree of manoeuvrability as a result of the central guide and support wheel located at the centre of the brush. Extremely short construction.
- Patented brush connection system enables brushes to be exchanged at the press of a button from the operating panel.
- Handy, height-adjustable steering column; depending upon model. Excellent view of the operating panel. Optimum view of the working area and brushhead.
- Electric 3-5-stage clean water regulation; depending upon model. Electric hour meter; depending upon model. Squeegee lips can be exchanged without the use of additional tools.

You want
greater economy

**The Hakomatic E/B 450/530
can offer:**

- A saving of up to 50% of water and cleaning agents using the "Hako-Aqua-Stop" system. Tested and approved. This saving, when calculated over the lifetime of the machine, corresponds to the initial cost of purchase.
- Further visible savings thanks to the reuse of cleaning solution (two to three times) when using the filter wall version in suitable applications.
- Longer lifetime as a result of the powder paint coated steel chassis construction. Extremely tough. Also tanks made of non-corrosive, robust synthetic material which is resistant to damage.
- Cost savings in terms of servicing too as all important parts are easily accessible. Malfunction diagnosis, longer intervals between maintenance checks and special maintenance conditions available.

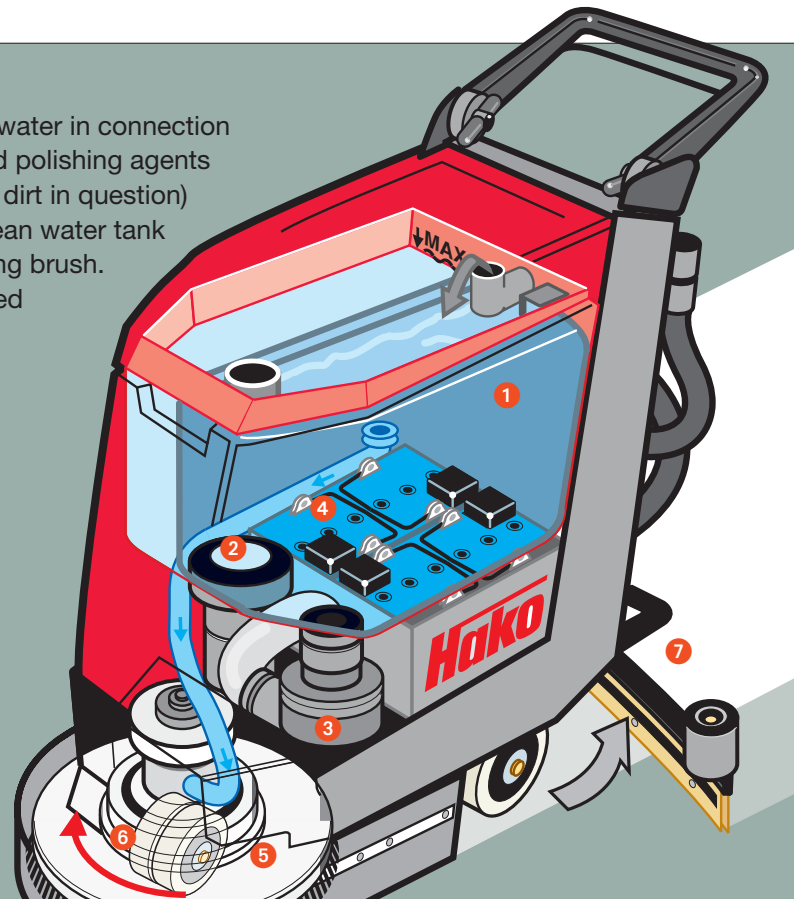
"Hako" stands for: Variations and options to meet your specific application requirements.

<p>Mains operated</p>  <p>Hakomatic E 450 Hakomatic E 530</p>		<p>Battery driven</p>  <p>Hakomatic B 450 Hakomatic B 530</p>	
<p>In addition you have the choice of:</p>			
 <p>Two working widths With 450 mm or 530 mm and protruding brush head.</p>	 <p>Two tank systems With flexible tank wall or filter wall for water reuse.</p>	 <p>Powerflow drive Directional stability. Easy drive support via the scrubbing brush.</p>	 <p>or self-propelled For difficult applications and long transport drive.</p>

"Hako" stands for: well thought-out design, convincing operation.

The working method:

The cleaning solution (water in connection with Hako cleaning and polishing agents suitable for the type of dirt in question) is pumped from the clean water tank to the rotating scrubbing brush. The parabolically formed squeegee then vacuums the dirty water completely.



- 1 Flexible wall or filter wall tank
- 2 Brush motor
- 3 Vacuum motor
- 4 Batteries
- 5 Scrubbing brush
- 6 Centrally located guide/support wheel
- 7 Squeegee

"Hako" stands for: Thorough, inviting cleanliness – everywhere!



Presentable cleanliness strengthens the bond with customers.



Customer-friendly cleanliness is the ultimate in sales promotion.



Hygienic cleanliness is a good reason to return.



Inviting cleanliness is the most convincing way to welcome guests.



Thorough cleanliness not only looks good – it increases safety.




Appetizing cleanliness – a delight for the eyes to savour.

Performance and quality down to the very last

Technical data:	Hakomatic	E 450	E 530	B 450	B 530
Working width	mm	450	530	450	530***
Effective suction width (option)	mm	850	930	850	930 (850)
Area performance up to	m ² /h	2025	2385	2025	2385
Working speed (Powerflow) up to	approx. km/h	4	4	4	4
Working speed (self-propelled) up to	approx. km/h	4,5	4,5	4,5	4,5
Running time (with battery 100 Ah)	approx. h	24	24	2,0	1,8
Drive		Mains	Mains	battery	battery
Voltage	V	230	230	24	24
Protection class (VDE 0700)		I	I	III*	III*
Air volume, vacuum	m ³ /h	115	115	115	115
Pressure (vacuum)	mbar	200	200	110	110
Power: drive motor (self-propelled)	W	180	180	180	180
Power: brush motor	W	1100	1100	720	720
Power: vacuum motor	W	860	860	380	380
No. of brushes	units	1	1	1	1
Brush revolutions	rpm	235	235	235	235
Brush diameter	mm	450	530	450	530
Brush pressure up to	kg	21	21,8	19,2	20
Specific brush pressure up to	N/cm ²	0,33	0,24	0,30	0,22
Flexible wall tank/filter wall tank	litres	42	42	42	42
Dimensions: Length with squeegee	cm	119	123	119	123
Width without/with squeegee (option)	cm	52/85	57/93	52/85 (75)	57/93 (85)
Weight,** empty, without batteries	kg	87	90	84	88
Weight,** ready for operation, 100 Ah battery	kg	129	132	212	216
Specific wheel pressure up to	N/mm ²	1,17	1,17	1,15	1,15

* With integrated battery charger, protection class I **For self-propelled version add 5 kg



The Hakomatics 450/530 fulfil the European regulations with regard to the EC machine guidelines, the EC low voltage guidelines and the EC guidelines with respect to electro-magnetic tolerance. Similarly the machines also comply with the European safety requirements of the standards EN 292 and EN 60 335, as can be recognized from the CE sign which is to be found on the machine. Hakomatic 450/530 – **Quality „made in Germany“**.

In the interest of technical progress we reserve the right to alter equipment without prior notice.

Hako is the right partner:



Cleanliness with safety
Hako machines adhere to strict quality regulations/standards. Quality made by Hako. We also take care of what we sell – world-wide.



Sales, hire, leasing, rental
Hako allows you to individually plan capital investments depending upon customer's demands and the available means. We are glad to give advice.



We are there for you day and night
Reliable after-sales service and excellent logistics guarantee that machines can be ready for operation around the clock. We take care of what we sell.



Hako is never far away
The efficient Hako sales and service network mean that Hako is always close at hand.

Hako

Superior technology for a cleaner, more pleasant environment

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The Hako sales offices and service depots are always close at hand!