

Hako

Clean ahead

**Superior technology
for industrial cleaning**

Large area ride-on vacuum sweeper Hako-Jonas 1450



**For tough industrial use. Area performance up to 16.200 m² cleanliness/hour.
Hydraulic high-dump up to 1.520 mm.**

**Hako –
perfect from
product
to service.**

Hako-Jonas 1450. The compact machine for constant heavy-duty dustfree industrial use. Inside and outside.

You want better performance

The Hako-Jonas 1450 can offer

- Area performance of up to 16.200 m² cleanliness/hour depending upon the application in question.
- A large 250 l dirt hopper with 100% filling capacity as a result of the overhead throwing principle. (Front throwing principle usually can only fill about 50% of this stated amount).
- Highly manoeuvrable thanks to the hydraulically resp. electrically driven and steered front drive wheel.
- Always an optimum sweeping result – unique automatic hopper adjusting system when sweeping level is adjusted in order to compensate for wear and tear on the main broom.
- Choice of diesel, petrol, LPG or battery driven machines.
- Timesaving, infinitely variable hydraulic high-dump with up to 1.520 mm dumping height.

You want increased comfort

The Hako-Jonas 1450 can offer

- A single button operation with the green Hako button which is completely new for vacuum sweepers. using this you can start and end all sweeping and vacuuming functions at the press of a single button.
- Easy operation with pedal control for infinitely variable speed regulation for optimum adaption to the cleaning application in question.
- Depending upon the application, the filter shaker functions can be individually set to meet specific customer requirements.
- All operational elements are arranged clearly and ergonomically in direct view and reach of the operator. Excellent, improved view of the area which is to be swept and of the side brushes.
- Adjustable, fully sprung comfortable driver's seat.
- Sweeping level can be adjusted by means of the hand-operated lever.

You want greater economy

The Hako-Jonas 1450 can offer

- A price/performance ratio which is unique in its range. We will be delighted to prove this to you on the spot.
- Particularly low costs over the machine life as a result of the heavy-duty construction.
- A comprehensive range of equipment fitted as standard without additional costs. Furthermore you can choose from many other interesting options.
- Cost savings with regard to service thanks to the integrated fault diagnostic system and direct access to all important parts for service and maintenance purposes.
- capital investments can be planned individually: sales, hire, leasing, rental.

Hako-Jonas 1450: Advantages from top to bottom, inside and out.



Simple, safe operation: At the press of a single button e.g. all sweeping functions can be started via the green Hako button. In addition functions can be programmed to meet specific customer requirements. Malfunction caused by wrong operation is practically impossible.



Comfortable working place: All operational elements are within direct view and reach of the operator. Excellent view of the surface area to be cleaned. Hydrostatic drive, smooth, easy steering and the comfortable driver's seat guarantee fatigue-free operation.



Optimum sweeping result: As a result of the automatic hopper adjusting system wear and tear of the main broom can be compensated for, i.e. always optimum sweeping. The high sweeping speed enables area performance of up to 16.200 m² cleanliness/hour to be achieved.



Powerful filter system: Highly effective, none-rotting fine dust filter cassette. Large filter area of 5,6 m². Degree of dust separation 99,0%. The filter corresponds to class S of the ZH 1/487 (German BIA Institute). Electric shaker device with programmable interval cleaning and automatic vacuum air shut-off.



Large dirt hopper: Made of robust sheet steel. Dirt hopper volume 250 litres. 100% filling capacity possible as a result of the overhead throwing principle. Infinitely variable hydraulic high dump up to 1.520 mm directly into standard rubbish container.

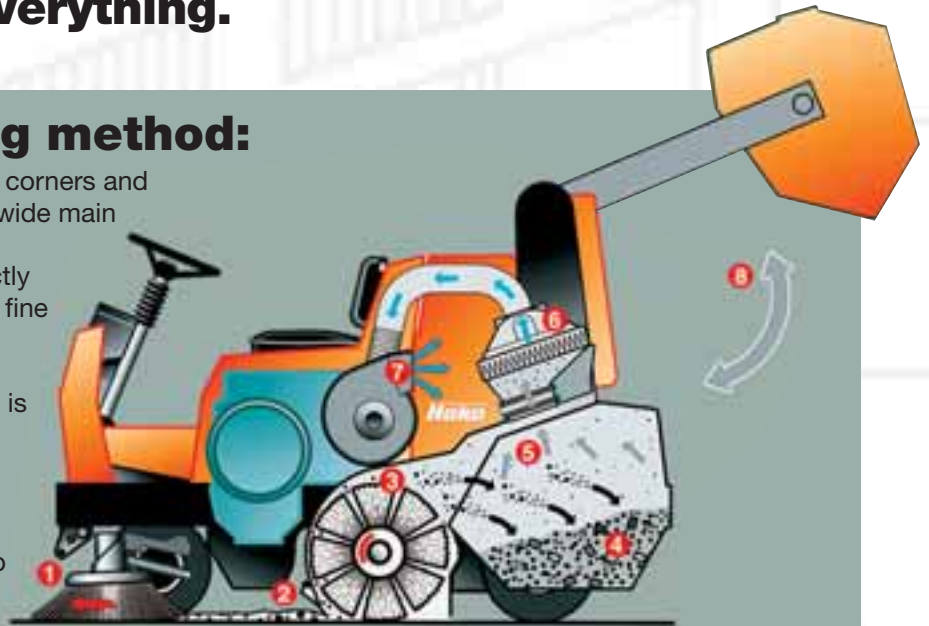


Service-friendly: Direct access to all important components for service and maintenance purposes as a result of the panels which can be opened up fully. Detection of faults is made considerably easier and the time needed reduced dramatically thanks to the malfunction diagnostic system. In-depth analysis can be made with the separate Hako diagnostic unit for fast and efficient service by qualified Hako service engineers.

Working method, equipment and economy. We've thought of everything.

The clean working method:

The side brush ① sweeps dirt out of corners and narrow areas into the path ② of the wide main broom. This in turn conveys the dirt (overhead throwing principle ③ directly into the 250 litre dirt hopper ④ . Any fine dust ⑤ which has been raised is vacuumed up against the freely suspended cassette filter ⑥ where it is separated. Only clean air ⑦ leaves the machine. Disposal of dirt and debris ⑧ can be carried out easily thanks to the infinitely variable hydraulics, releasing dirt directly into the standard rubbish container. Dumping height up to 1.520 mm.



The equipment:

Motor/Antrieb

- water cooled 4 stroke petrol engine or
- water cooled diesel engine or
- LPG drive or
- Battery drive
- Catalytic convertor (petrol engine)
- Hydrostatic drive or
- Electrical drive (Jonas 1450 E)
- driven and steered front wheel for maximum manoeuvrability
- Foot operated parking brake
- Hydraulically working brake system (for Hako-Jonas 1450 E)

Working tools/accessories

- Main broom and side brush lifted hydraulically at the press of a button
- Collision protection for side brush
- Left-hand side brush
- Hydraulic high-dump, infinitely variable up to 1520 mm.
- Front protective skirt
- Non-rotting cassette filter
- Electric filter shaker shakes automatically when brush is lifted

Bedienung/Arbeitsplatz

- Adjustable steering column
- Adjustable, fully sprung comfortable driver's seat
- Handy box for personal belongings
- Single button operation via the 'green Hakomatic button'
- Individually programmable cleaning functions
- Driver's overhead guard
- Driver's cabin (for Jonas 1450 V, D, optional heating)
- Hour meter
- Integrated fault diagnostic system

Lighting/tyres

- Warning beacon to be fitted on overhead guard
- Lighting kit for use on roads
- Additional working headlights for overhead guard
- CSE-tyres
- Pneumatic tyres

- Standard equipment ○ Special equipment



1 m² cleanliness for less than 0,01 €: An exact computerized economy calculation can be carried out by the Hako sales consultants using data of the application in question. We can also offer advice on capital investment planning such as hire, leasing and rental. We also have information about our comprehensive full service programme.

Hako-Jonas 1450. All brushes sweep. Ours sweep better. Inside and outside.



Quick cleanliness: If speed is what you are looking for then the Hako-Jonas 1450 is in its element. A high degree of manoeuvrability enables all cleaning tasks to be dealt with quickly. Dustfree!



Cleanliness and safety: In the warehouse area safety is of the utmost importance. Here, for example, the overhead guard gives the operator additional protection.



Cleanliness on large areas: Exhaust-free indoor cleaning but still powerful – Hako-Jonas 1450 E. A unique energy efficiency in its class ensures long running times.



Cleanliness when negotiating gradients: The Hako-Jonas 1450 masters gradients of up to 18% without any problems. Thus this machine is the ideal solution to cleaning e.g. for multi-storey car parks.

Performance and quality down to the very last detail.

Technical data	Hako-Jonas 1450 V	Hako-Jonas 1450 D	Hako Jonas 1450 E
Drive engine:	Water cooled 4 stroke 2 cylinder petrol engine. Extremely smooth running engine as a result of speed limited rpm. Capacity 10,7 kW at 2.800 rpm. 610 cm ³ . Fuel tank 27 litres. Runs on normal unleaded petrol.	Water cooled 2 cylinder diesel engine. Extremely smooth running as a result of speed limited rpm. Capacity 10,4 kW at 2.800 rpm. 700 cm ³ . Fuel tank 27 litres.	Battery-drive. 5,7 kW/36 V strong gear motor. Optional with low maintenance or maintenance free traction batteries. Control indicator for battery capacity. Running time up to net approx. 4 hrs. (depending upon battery system).
Sweeping/drive speed:	up to 10,0 km/h	up to 10,0 km/h	up to 8,0 km/h
Area performance: (max. theoretical area performance)	9.200 m ² /h without side brush 12.700 m ² /h with 1 side brush 16.200 m ² /h mit 2 with 2 side brushes (Option) The actual sweeping capacity is calculated depending upon the working conditions of the application, with substractions for turns, manoeuvring and track overlap.	9.200 m ² /h without side brush 12.700 m ² /h with 1 side brush 16.200 m ² /h with 2 side brushes (Option)	7.360 m ² /h without side brush 10.160 m ² /h with 1 side brush 12.960 m ² /h with 2 side brushes (Option)
Sweeping width:	920 mm without side brush, 1.270 mm with 1 side brush, (option: 1.620 mm with 2 side brushes).		
Drive:	Infinitely variable hydrostatic drive for forward and reverse. As a result of the front wheel drive/steering the Hako-Jonas 1450 is extremely manoeuvrable.		Infinitely variable drive speed regulation via electronic drive control.
Tyres:	Standard CSE-tyres to guard against punctures. (Front wheel Hako-Jonas 1450 E: solid rubber tyres).		
Safety:	Automatically stops when drive pedal is released. Parking brake. Separate working brake system (1450 E) which acts on the rear wheels.		
Main broom	Free floating main broom with rws of bristles in a spiral formation for optimum adaption to different types of debris. Working width 920 mm. Can be lifted from the driver's seat for transport drive. Sweeping level (height) adjustable without the use of additional tools. Rubber skirt can be operated from driver's seat in order to collect large debris (cans etc.). Free floating side brush with hydraulic drive and hydraulic lowering/lifting. With protective plate for sweeping close to walls. Side brush diameter 600 mm. Available with left-hand side brush (option) to increase the sweeping width to 1.620 mm.		
Operating switches:	Operating panel with electronic control of all cleaning functions. Ideal combination of individual cleaning processes eg. single switch operation for sweeping via the green 'Hako button'. Safe operation of high dump, ensures against malfunction.		
Control indicators/lights:	Indicators for fuel, resp. battery capacity (Jonas 1450 E), radiator water temperature (Jonas 1450 V, D), oil pressure (1450 V, D), parking brake. Central indication of faults. Hour meter with integrated fault diagnostic system.		
Dust filter and vacuum:	Fine dust filter package (filter cassette) easily accessible made of non-rotting material. Filter area 5,6 m ² . Degree of separation >99,0%. The filter corresponds to class S of ZH 1/487, German BIA Institute. Electric filter shaker device with different modes to set. Suction can be switvhed on and off (i.e. for sweeping on wet areas).		
Dirt hopper:	Sheet steel construction with 250 litres hopper capacity. Easy to empty as a result of hydraulic high-dump directly into astandard rubbish container. Dumping height up to 1.520 mm.		
Special fittings and accessories:	Overhead guard, lighting kit. warning beacon, additional working lughts located on the overhead guard. Driver's cabin. Catalyc convertor. Left-hand side brush. Right-hand side brush vacuum.		
LPG kit (1450 V):	LPG kit using an 11 kg exchangeable gas bottle with valve. Delivered without gas bottle.		
Protection against corrosion:	Synthetic material colour coating which is burnt into the metal to protect against sub-surface rust.		
Dimension and weights:	Length with side brush: 2.230 mm, width: 1.335 mm, height without/with overhead guard: 1.800/1.980 mm Climbing ability up to: 18 % Weight empty: 1.080 kg.	Climbing ability up to: 18 % Weight empty: 1.080 kg.	Climbing ability up to: 16 % Weight 1.054 kg without batteries
CE	The Hako-Jonas 1450 fulfils 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 standard EN 292 und EN 60335.		

Ausführung, Form und Farbgebung im Interesse der technischen Weiterentwicklung vorbehalten.

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
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