

The Hakomatic B 1500 is a large-area scrubber-drier with integrated sweeping unit for economical dry and wet cleaning of hard floors. Equipped with the most modern technology and developed for heavy commercial use with large area and cleaning capacity. Particularly economical due to simultaneous sweeping with dust vacuum, wet scrubbing and dry vacuum in one operation. Robust, compact build with driver's seat located at the front in the middle giving an excellent all-round view of the area to be cleaned. Environmentally-friendly as a result of battery-electric drive with infinitely variable electronic drive control. Easy automatic control over the operation due to ability to pre-set a standard cleaning program according to the application.

**Drive steering:** Infinitely variable control of drive speed 0 – 8.4 km/h via electronic drive steering (impulse control) of the geared motor on the front steering wheel. Single pedal control of all speeds, forward and reverse. The maximum drive speed can be individually pre-programmed according to the customers' requirements. High performance drive motor with power reserves to negotiate gradients of up to 20%.

**Sweeping system:** Integrated sweeping system for picking up dirt in the dry area in the front of the scrubbing system. Main broom 120 cm and two side brushes driven by separate electro-motors. Complete working width 155 cm, Dust filter with electric shaker and vacuum that can be switched off. Filter system category U according to ZH 1/487 (BIA). Dirt container with approx. 100 l hopper volume. Hydraulic high dump directly into container, up to 106 cm.

**Scrubbing system:** Three plate brushes with excellent cleaning performance directly powered by three water proof electric motors (IP 54) with helical gears. Automatic lowering/engaging and lifting disengaging by electric elevating pressure jacks with simultaneously control to the flow of clean water. Electric brush pressure adjustment for stubborn dirt.

**Water tanks:** Robust, shock resistant synthetic material, chemical resistant and corrosion-free. 410 l tank with flexible wall between clean and dirty water tanks. Overflow protection thanks to electric water level gauge with automatic switch-off of vacuum motor. Quick change of water thanks to automatic filling system and large drain hose and cleaning flap.

**Thorough wet cleaning:** Optimal adjustment of the scrubbing brushes also on uneven floors thanks to flexible fixing of brushes and wide overlapping. Adapts well to the type and amount of dirt as a result of the electric pump dosage directly at the scrubbing brushes. High degree of dryness thanks to powerful, three phase vacuum motor and parabolically formed independently suspended squeegee.

**Comfortable operation:** Operation through pre-setting of the standard cleaning program depending upon the application in question. Automatic lift of squeegee when reversing protects from wear and tear. Excellent manoeuvrability thanks to front wheel drive. Weight adjustable sprung driver's seat. Adjustable steering column. Option of connection for additional tools.

**Safe handling:** Key lock to avoid unauthorized use. Safety switch under driver's seat. Battery saver with gauge for remaining charge capacity, visual signal and automatic cut-off to protect the batteries from low discharge. Rear-view mirror and reverse drive warning signal. Light diode to indicate full dirty water tank. Electronic current monitoring by means of light diode gauge. Malfunction analysis program. Hydraulic operation brake. Independent parking brake with light diode when activated. Overhead guard according to safety requirements described in DIN 15165 (forklift). Two-handed safety operation when using high dump.

**Robust quality and easy maintenance:** Robust steel frame construction (heavy-duty version with all-round bumper). Shock-proof, corrosion-free synthetic material tanks. Large tank opening to clean and fill tanks. Service-friendly construction. All components are within easy reach and component groups can be exchanged completely. Brushes can be exchanged without use of additional tools.

#### Special fittings and accessories:

**Trough battery 36 volt/960 Ah PzS:** low maintenance battery, 2 x 18 individual cells, 8 PzS in steel tray including battery solution refill system and cable set. Quick battery change for multiple-shift operation by means of fork-lift truck or hoist.

**Battery charger 36 Volt/125 Ampere:** fully automatic. IU1a-line, safety off-switch. Mains connection 380 (400) V/50 Hz.

**Battery exchange tray:** For multiple shift operation. Removable by fork lift truck, for exchange with standard battery tray.

**Side scrubbing brush:** Additional scrubbing unit mounted on the right hand side of the machine to enable cleaning close to walls and under shelves. Increases the total working width to 146 cm. The side scrubbing brush is independently suspended.

**Hazard warning light:**  
To be mounted onto the overhead guard.

**Working lights:**  
Two working lights mounted at the front.

**Scrubbing brushes:**  
Plate brushes with various types of bristles.

**Additional tools for use with suction hose:** For wet cleaning and in order to clean areas which are difficult to reach.

## Technical data:

Theoretical area performance	m <sup>2</sup>	9750
Drive speed	km/h	8,4
Working speed	km/h	7,5
Working width, sweeping	cm	155
Working width, scrubbing	cm	130
Working width, vacuuming	cm	151
Mains rating	V	36
Protection class (VDE 0700)		III
Drive motor	W	2500
<b>Sweeping unit:</b>		
Dirt hopper capacity, gross	l	100
High dump facility	cm	106
Dust filter	category	U (BIA)
<b>Scrubbing unit:</b>		
Brush motor	W	3 x 750
Number of brushes	Stück	3
Brush speed	1/min	220
Brush pressure	kp	70/115
Specific brush pressure	N/cm <sup>2</sup>	0,20 – 0,32

Tank		
clean/dirty water	l	410
Suction motor	W	2000
Air flow	m <sup>3</sup> /h	270
Vacuum (static water lift)	mmWS	2300
Climbing ability	%	20

## Dimensions and weights:

Length	cm	282
Width without squeegee	cm	142
Width with squeegee	cm	151
Height	cm	205
Ø turning circle	cm	240

Specific wheel pressure front/rear	N/mm <sup>2</sup>	1,36/1,12
Weight empty (w/o batteries)	kg	1420
Total weight ready for operation	kg	3160
Noise level according to DIN 45635	dB(A)	80