

Minuteman®



MAX RIDE | RoboScrub 20
Powered by BrainOS®



Battery
Powered



OPERATES ON ITS OWN or WITH A DRIVER

A smart, safe, Autonomous Floor Care solution

Cleanliness is the Roboscrub's profession

The Minuteman MAX Ride Roboscrub 20 powered by BrainOS® represents the next generation of robotic floor care. The AI technology utilised within the Roboscrub 20 navigates complex, real-world environments.

- Dual Mode – Manual or Autonomous, providing flexibility of cleaning on site when needed.
- Multi-layer sensor system perceives environment while detecting and avoiding people and obstacles.
- Automatic status messages are sent to the robot operator via SMS message.





Scrubbing technology in detail



Emergency Stop:

Emergency stop buttons are located at the front and rear of the Roboscrub 20.

If activated, these immediately halt all work, the Roboscrub 20 is stationary, and the robotic route is halted. The local supervisor is automatically alerted.



Warning light:

The warning light flashes when the RoboScrub 20 is operating in robotic mode. This serves as an indicator to passersby that the RoboScrub 20 is currently in operation.



Start/Pause button:

The RoboScrub 20 is equipped with a blue start/pause button on the back that is used to begin running a saved route in robotic mode, or to pause an in-process robotic route. When pressed, the scrub brush raises.



Mobile Alerts!

- Phone alerts include:
- Needs more solution
 - Needs to be charged
 - Obstacle (not obstruction)

Maximizing Efficiency. Minimizing Costs

The Max Ride 20 powered by BrainOS® represents the next generation of robotic floor care. Brain's advanced vision-based A.I. system enables the robot to navigate complex, real-world environments.

The machine is designed to work safely and efficiently alongside employees and can still be used manually for ad-hoc situations.



Sensors

The RoboScrub 20 is equipped with LIDAR, 3D and 2D cameras, all of which allow machine visions for the robotic software. All sensors and cameras constantly surveille the robot's surroundings for both stationary and moving obstacles. When an obstacle is detected, the RoboScrub 20 will attempt to navigate around it and continue on its robotic map.

User Interface (UI) Touch Screen:

The RoboScrub 20 is equipped with BrainOS software that is accessible via the User Interface (UI) Touch Screen, located on the left side of the control console.

BrainOS technology offers a robotic mode feature that provides the ability for the RoboScrub 20 to perform floor cleaning by following one of the saved navigation routes without direct, real-time operator control.

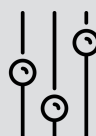
ROBOTIC FEATURES



Automatic status messages are sent to the robot operator via SMS message.



Multi-layer sensor system perceives environment, while detecting & avoiding people and obstacles.



Dual mode. Manual & Autonomous



The Roboscrub at a glance

Technical data

Technical data Roboscrub	
Robotic Features	
Control	<ul style="list-style-type: none"> Manual and Autonomous
Learning System	<ul style="list-style-type: none"> Autonomous function is trained by user to replicate multiple scrubbing routes
Navigation	<ul style="list-style-type: none"> Multi-layer sensor system perceives environment, controlling vehicle and navigation.
Safety	<ul style="list-style-type: none"> Overlapping sensors detect and avoid people and obstacles Equipped with auto-stop button. Beeps alert passersby.
Support	<ul style="list-style-type: none"> Robot Operations Center (ROC), managed by Brain Corp technicians, provides remote monitoring, usage analytics and first line customer service.
Scrubber Specifications	
Cleaning Path Width	<ul style="list-style-type: none"> 508 mm
Squeegee Width	<ul style="list-style-type: none"> 635 mm
Brush Speed Brush	<ul style="list-style-type: none"> 200–350–450 rpm
Pad Pressure	<ul style="list-style-type: none"> Floating - Locked
Water Flow Rate	<ul style="list-style-type: none"> 0 – 1.5 L/min
Max. Manual Speed	<ul style="list-style-type: none"> 5 kph
Max. Manual Productivity Rate	2,527 m ² /h
Max. Autonomous Speed	<ul style="list-style-type: none"> 4 kph
Noise	<ul style="list-style-type: none"> 68 dBA
Max. Autonomous Productivity Rate	1895 m ² /h
Dimensions & Capacity	
Length	1207 mm
Width	648 mm
Height	1143 mm
Weight With Batteries	313 kg
Solution Tank Capacity	68 L
Recovery Tank Capacity	68 L
Power	
Vacuum Power	550W
Nominal Voltage	24V DC
Batteries	2 x 12v 234 Ah/ Maintenance free
Run Time	3.5 – 4 hrs

In the interest of further technical development we reserve the right to colour-, structural or design modifications. Pictures may show optional equipment.



Hako: Environmentally friendly right from the start

It is our legacy to leave behind a clean planet. That is why resources-, environmental- and climate protection characterise each and every process at Hako which has been certified by independent institutions. Learn more about our ongoing commitment at www.hako.com.

Everywhere and always close by

Our efficient sales & service network guarantees close proximity and rapid help.

Cleanliness combined with safety

Our machines meet the highest standards. Reliable quality "Made by Hako".

Buying, leasing, renting

We offer you a wide range of attractive individual financing and procurement options.

We are available 24/7

Hako's spare part express and on-call service guarantees best possible availability.

BLUECOMPETENCE

Alliance Member

Partner of the Engineering Industry Sustainability Initiative



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