KIRA BR 50

Efficient, time-saving, simple, safe, flexible – and fully autonomous on request: the KIRA BR 50 scrubber dryer robot for economical floor cleaning in medium to large areas.



DESIGN AWARD 2024

reddot winner 2024

Made in Germany

Order no. **1.533-003.0**

- Fully autonomous scrubber dryer with a maximum area performance of 2365 m²/h
- 550 mm working width with roller brushes, pre-sweeping function, side brush
- Dockable, compatible with roller door control and VDA 5050

Technical data		
EAN code		4066529153289
Drive type		Battery
Rated input power	**W**	1600
Traction motor power	**W**	560
Turbine capacity	**W**	630
Motor rating of brush motor	**W**	600
Working width, brushes	**mm**	550
Brush contact pressure	**g/cm²**	80
Brush speed	**rpm**	1200
Working width, vacuuming	**mm**	750
Fresh/dirty water tank	**l**	55 / 55
Detergent tank	**l**	5
Sweeper drawer volume	**l**	2
Theoretical area performance, autonomous	**m²/h**	max. 2365
Cleaning performance per tank filling (approx.)	**m²**	approx. 1830
Voltage	**V**	24
Number of batteries		2
Battery type		Li-ion
Battery voltage/capacity	**V / Ah**	24 / 180
Battery run time	**h**	approx. 4
Battery charging time	**h**	max. 5.8
Autonomous speed	**km/h**	max. 4.3

Scope of supply
Battery and battery charger
Squeegee included
Roller brush: 2 Piece(s)
Side brush
Flashing beacon

Equipment
Type of suction lips: oil-proof
DOSE
with speed-dependent water dosing
Large, high-definition touch display
Docking-enabled
Roller shutter control prepared
autonomous cleaning
Automatic pre-sweeping
with manual drive mode
Ramp mode
Easy and intuitive set-up without the need for expert knowledge
High-performance sensors
obstacle and crash detection
autonomous swerving upon meeting obstacles
Safety certified for public areas
creation of cleaning reports

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Sound pressure level	**dB(A)**	69
Autonomous aisle turning width	**m**	1.5
Climbing ability	**%**	max. 12
Autonomous clearance width	**m**	min. 0.9
Software updates available until		2033-01-01
Unladen weight	**kg**	228
Weight without accessories	**kg**	230
Weight (with accessories)	**kg**	243.4
Weight incl. packaging	**kg**	254.4
Dimensions (L × W × H)	**mm**	1100 × 750 × 1200

This machine requires instruction.

Notifications on mobile devices
Schedule function
Auto Fill
Coloured lights to display the robot's behaviour and operating status
Kärcher colour and operating concept
electrical and mechanical float switch
Underpressure sensor for detecting blockages
Detection of empty detergent tank
Communication interface: VDA 5050
Detergent dosing unit





Easy operation

- Clearly organised, safe control of all device functions via the touch display.
- Step-by-step user guidance for easy, intuitive operation.
- Simple to set up and easy to use the robot without expert knowledge.



Robust and reliable navigation

- High-performance sensors with 360° detection of the environment and lateral monitoring.
- Safe avoidance of collisions and obstacle guide.
- Intelligent free travel manoeuvres in the event of blockages.



Docking station (optional)

- Enables fully autonomous operation.
- Resources can be autonomously topped up by a robot (refilling the fresh water, draining the dirty water, rinsing the tank, charging the battery).
- Optional accessory, the robot can also be operated without the docking station.

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SUSTAINABILITY ASPECTS OF KIRA BR 50
1.533-003.0

Sustainability aspects of Beyond Cleaning		
Standby Mode		
DOSE (detergent dosage system)		

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EQUIPMENT FOR KIRA BR 50
1.533-003.0

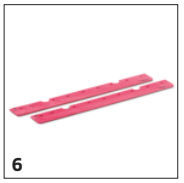

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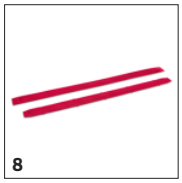

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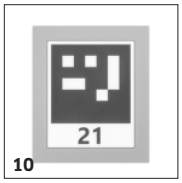

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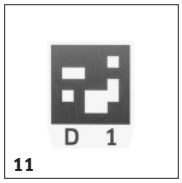

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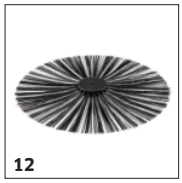

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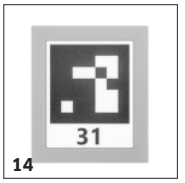
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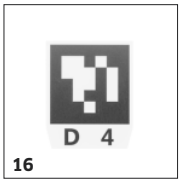
		Order no.	Description	
ROLLER BRUSHES FOR BR				
Roller brush complete for replacement BR, Medium, Red, 550 mm	1	4.035-184.0	Red standard roller brush for maintenance cleaning.	■
Roller brush, Soft, white, 550 mm	2	4.762-409.0	White roller brush for cleaning sensitive floor coverings.	☐
Roller brush, high / low, Orange, 550 mm	3	4.762-410.0	Orange roller brush with high-low structure for particularly effective cleaning of textured floor coverings.	☐
Roller brush, Hard, green, 550 mm	4	4.762-411.0	Green, abrasive roller brush for deep cleaning and removal of sticky dirt.	☐
WIPING LIPS				
Set side strip oil resistant	5	4.037-167.0	Set of low-wear, oil-proof squeegee blades made of Polyurethane. For optimum cleaning results with curve movements and reliable keeping of the cleaning water in the working area of the brush head.	■
Set side strip	6	4.037-166.0	Set of tear-resistant squeegee blades made of Linard. They keep the cleaning water in the working area of the brush head and ensure optimum squeegee performance in turning manoeuvres.	☐
SUCTION BARS AND SQUEEGEES				
Squeegees for suction bars				
Rubber lip set corrugated oil resistant, oil-resistant, slotted, 850 mm	7	6.273-027.0	Squeegee blade kit includes front and rear squeegee blades, 850 mm. Slotted squeegee blades of hard-wearing, oil-resistant, transparent polyurethane. For sensitive floors.	■
Suction lips set replacement Linatex, Linatex®, 850 mm	8	4.043-196.0	Linatex® suction lip set, 850 mm in width. The tear-proof material adapts perfectly to profiled floor coverings, thus ensuring very good wiping and suction results.	☐
OTHER ACCESSORIES FOR SCRUBBER DRYERS				
Miscellaneous				
Suction lips set replacement Naturkautsc	9	4.042-050.0	Detergent tank with large filling opening from Kärcher. The accessory part acts an extra tank for pre-filling – speeds up set-up times thanks to quick canister changes.	■
Standard set position codes	10	4.042-130.0	Set with position codes to define extra starting points and direct autonomous transport routes for the cleaning robot.	■
Foil docking station Aruco Code D1- D3	11	4.043-185.0	Standard set of position codes for docking station. Enables the operation of up to three robot docking stations in the same environment.	■
Side broom replacement	12	4.042-048.0	Spare side brush with black bristles for cleaning right to the edge.	■
Docking station complete	13	2.042-000.0	The docking station for fully autonomous applications of cleaning robots reduces manual interventions to a minimum and extends the range and area performance of robots.	☐
Tag set Aruco Code 31-40	14	4.042-128.0	The position codes extension set can be used to define additional starting points in the vicinity of the robot. This reduces autonomous journeys and improves the system's overall performance.	☐

■ Included in delivery. ☐ Available accessories.

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EQUIPMENT FOR KIRA BR 50
1.533-003.0


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		Order no.	Description	
OTHER ACCESSORIES FOR SCRUBBER DRYERS				
Miscellaneous				
Add-on kit blue headlight Spot	15	4.042-129.0	The Spotlight Blue attachment kit increases the visibility and therefore the safety for applications in the immediate vicinity of people, other machines and vehicles.	☐
Foil docking station Aruco Code D4- D20	16	4.043-190.0	Set with position codes for flexible operation of cleaning robots with more than four docking stations in the same area. For shorter transport routes and more efficient cleaning.	☐
Transmitter roller shutter complete incl	17	6.043-057.0	Roller shutter control attachment kit: enables the KIRA B 50 and KIRA B 200 cleaning robots to control roller shutters automatically.	☐
Receiver roller shutter cpl.	18	6.043-058.0		☐
Filling hose	19	6.680-124.0	1,500-mm filling hose for easy device filling from a water tap. With universal tapered fitting for all standard taps.	☐
POWER CABLE				
Power cable with IEC plug EU	20	6.640-202.0	Power cable with IEC plug for Europe.	■
ROLLER PADS / ROLLER PAD SHAFT				
Roller pad shaft				
Pad roller shaft, 550 mm	21	4.762-415.0	Pad roller shaft suitable for holding roller pads or microfibre rollers.	☐
Roller pads				
Roller pad on sleeve, Medium, Red, 530 mm	22	6.369-734.0	Red standard roller pad for the maintenance cleaning of non-textured floor coverings.	☐
Roller pad on sleeve, Hard, green, 530 mm	23	6.369-733.0	Green, abrasive roller pad for deep cleaning, as well as the removal of sticky dirt on non-textured floor coverings.	☐
Microfibre shaft				
Microfibre roller, 550 mm	24	4.114-010.0	Ideal for fine stoneware tiles. Microfibre roller for the reliable and gentle removal of grey haze.	☐
TRACTION BATTERIES AND CHARGERS				
Batteries				
Drive battery LIB 25,6V / 80Ah, 25,6 V, 80 Ah, Li-ion	25	6.654-454.0	Lithium-ion battery (25.6 V/80 Ah) for scrubber dryers from Kärcher. The traction battery offers up to 4-fold cycle stability compared to lead-acid batteries.	☐

■ Included in delivery. ☐ Available accessories.