KIRA B 50

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



DESIGN AWARD 2024

reddot winner 2024

Made in Germany

Order no.	1.533-002.0

Technical data		
EAN code		4054278512860
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
Area performance per tank filling	m²	approx. 1830
Power supply	V	24
Number of batteries		2
Battery type		Li-ion
Battery voltage/capacity	V / Ah	24 / 160
Battery runtime	h	approx. 3.5
Battery charging time	h	max. 5.2
Autonomous speed	km/h	max. 4.3
Sound pressure level	dB(A)	69
Autonomous aisle turning width	m	1.5
Climbing ability	%	max. 6

Equipment		
Battery and battery charger		■
Squeegee included		■
Type of suction lips		oil-proof
Roller brush	Piece(s)	2
Side brush		■
Flashing beacon		■
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		■
Notifications on mobile devices		■
Schedule function		■
Auto Fill		■

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Autonomous clearance width	**m**	min. 0.9
Unladen weight	**kg**	228
Weight without accessories	**kg**	225
Weight (with accessories)	**kg**	238.4
Weight incl. packaging	**kg**	249.4
Dimensions (L × W × H)	**mm**	1100 × 750 × 1200

Coloured lights to display the robot's behaviour and operating status	■
Kärcher colour and operating concept	■
electrical and mechanical float switch	■
Communication interface	VDA 5050
Detergent dosing unit	■

■ Included in the scope of supply.

This machine requires instruction.



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.

KIRA B 50, 1.533-002.0, 2025-09-29

KÄRCHER

ACCESSORIES FOR KIRA B 50
1.533-002.0


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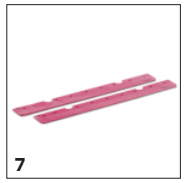

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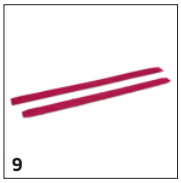

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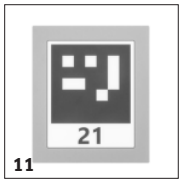

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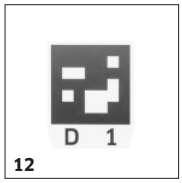

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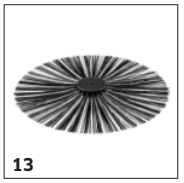

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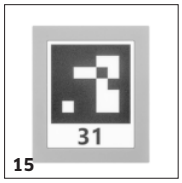

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		Order no.	Description	
HOSES				
Connector set	1	2.645-122.0	Connection set: G3/4 brass tap adaptor with G1/2 reducer, 2 × universal hose connector and 1.5 m PrimoFlex® hose (5/8"). For connecting hose trolleys and hose reels to taps.	■
ROLLER BRUSHES				
Roller brush, medium, red, 550 mm	2	4.035-184.0	Red standard roller brush for maintenance cleaning.	■
Roller brush, soft, White, 550 mm	3	4.762-409.0	White roller brush for cleaning sensitive floor coverings.	☐
Roller brush, high / low, orange, 550 mm	4	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	5	4.762-411.0	Green, abrasive roller brush for deep cleaning and removal of sticky dirt.	☐
WIPING FLAPS				
Lateral squeegee blades, oil-resistant	6	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.	■
Lateral squeegee blades, Linard	7	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.	☐
SQUEEGEES AND SQUEEGEE BLADES				
Squeegee blades				
Squeegee blades for V-squeegee, oil-resistant, slotted, 850 mm	8	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.	■
Squeegee blades, Linatex®, 850 mm	9	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 SCRUBBER DRIERS				
Miscellaneous				
Detergent tank	10	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	11	4.042-130.0	Set with position codes to define extra starting points for cleaning robot and to increase efficiency by making autonomous transport routes shorter.	■
Standard set position codes docking station	12	4.043-185.0		■
Side broom	13	4.042-048.0	Spare side brush with black bristles for cleaning right to the edge.	■
KIRA B 50 docking station	14	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.	☐

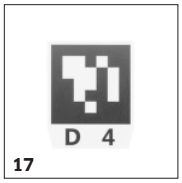
■ Included in the scope of supply. ☐ Available accessories.

ACCESSORIES FOR KIRA B 50
1.533-002.0



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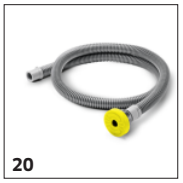

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		Order no.	Description	
OTHER ACCESSORIES SCRUBBER DRIERS				
Miscellaneous				
Expansion set position codes	15	4.042-128.0	The position codes extension set can be used to define additional starting points in the vicinity of the robot. This reduces autonomous journeys and improves the system's overall performance.	☐
Spotlight Blue attachment kit	16	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.	☐
Expansion set position codes docking station	17	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.	☐
KIRA roller shutter control transmitter	18	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 for KIRA roller shutter control	19	6.043-058.0		☐
Filling hose	20	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.	☐
TRACTION BATTERIES AND CHARGERS				
Batteries				
Drive battery LIB 25,6V / 80Ah, 25,6 V, 80 Ah, Li-ion	21	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.	■
POWER CABLE				
Power cable with IEC plug EU	22	6.640-202.0	Power cable with IEC plug for Europe.	■
ROLLER PADS / ROLLER PAD SHAFTS				
Pad roller shafts				
Pad roller shaft, 550 mm	23	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	24	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	25	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	26	4.114-010.0	Ideal for fine stoneware tiles. Microfibre roller for the reliable and gentle removal of grey haze.	☐

■ Included in the scope of supply. ☐ Available accessories.