

KIRA BD 50

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



Order no.

1.533-050.0

- Lithium iron phosphate battery
- Coarse dirt scraper
- Docking-enabled

Technical data

EAN code		4066529153272
Drive type		Battery
Rated input power	W	1600
Traction motor power	W	560
Turbine capacity	W	630
Motor rating of brush motor	W	900
Working width, brushes	mm	600
Brush contact pressure	g/cm ²	20
Brush speed	rpm	150
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	m ² /h	max. 2578
Area performance per tank filling	m ²	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
Sound pressure level	dB(A)	69

Scope of supply

Battery and battery charger
Squeegee included
Disc brush: 2 Piece(s)
Flashing beacon

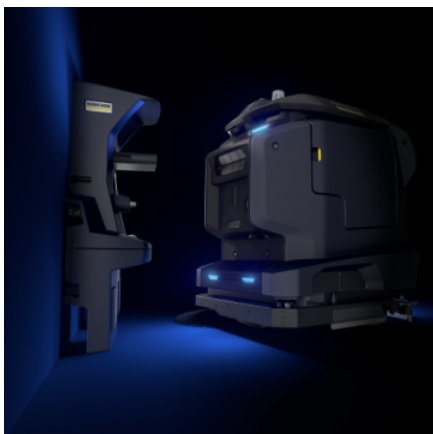
Equipment

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
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

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	236
Weight (with accessories)	kg	236.3
Weight incl. packaging	kg	250.2
Dimensions (L × W × H)	mm	1100 × 750 × 1200

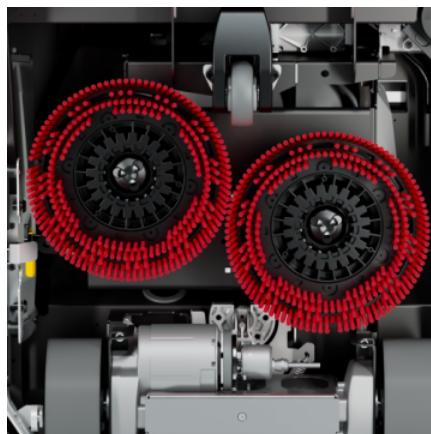
Auto Fill
Coloured lights to display the robot's behaviour and operating status
Kärcher colour and operating concept
electrical and mechanical float switch
Underpressure sensor for detecting blockages
Detection of empty detergent tank
Communication interface: VDA 5050
Detergent dosing unit

This machine requires instruction.



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.



Proven disc brush engineering

- Extra powerful yet gentle cleaning on smooth and delicate surfaces.
- Low brush wear.
- Wide selection of different brushes and pads to choose from, including diamond pads that can be used to achieve/maintain a glossy finish.



Coarse dirt scraper

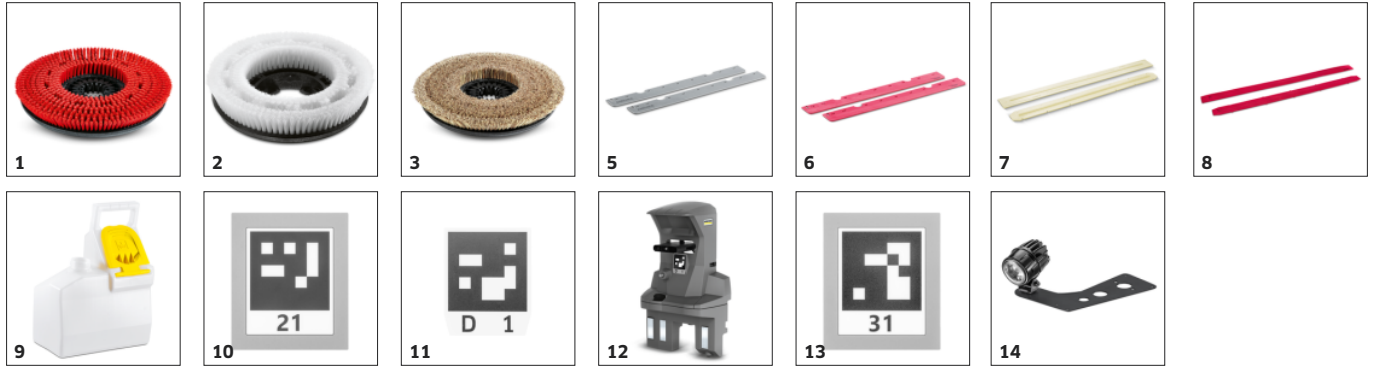
- Prevents coarse dirt from entering the machine.
- Protects the disc brushes from coarse dirt particles.
- Prevents blockage of the squeegee.

SUSTAINABILITY ASPECTS OF KIRA BD 50
1.533-050.0

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

ACCESSORIES FOR KIRA BD 50

1.533-050.0



		Order no.	Description	
DISC BRUSHES				
Disc brush, medium, red, 300 mm	1	4.905-014.0	Red standard disc brush for regular maintenance cleaning.	■
Disc brush, very soft, White, 300 mm	2	4.905-015.0	White, soft disc brush for the gentle cleaning of sensitive floor coverings.	□
Disc brush, Soft, natural, 300 mm	3	4.905-016.0	Natural-coloured, soft disc brush for cleaning and polishing textured floor coverings.	□
Disc brush, hard, black, 300 mm	4	4.905-017.0	Black, very abrasive disc brush for the deep cleaning of hard-wearing floor coverings with very sticky dirt.	□
WIPING FLAPS				
Lateral squeegee blades, 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.	■
Lateral squeegee blades, Linard	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.	□
SQUEEGEES AND SQUEEGEE BLADES				
Squeegee blades				
Squeegee blades for V-squeegee, 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.	■
Squeegee blades, 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 SCRUBBER DRIERS				
Miscellaneous				
Detergent tank	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 for cleaning robot and to increase efficiency by making autonomous transport routes shorter.	■
Standard set position codes docking station	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.	■
KIRA B 50 docking station	12	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.	□
Expansion set position codes	13	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	14	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.	□

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

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OTHER ACCESSORIES SCRUBBER DRIERS				
Miscellaneous				
Expansion set position codes docking station	15	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	16	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	17	6.043-058.0		☐
Filling hose	18	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	19	6.640-202.0	Power cable with IEC plug for Europe.	☒
DISC PADS / PAD DRIVE BOARDS				
Microfibre pad				
Microfibre pad, White, 306 mm, 5 Piece(s)	20	6.369-958.0	5 microfibre pads, white With centre hole, 306 mm diameter. Excellent cleaning power. Also effectively cleans fine stoneware tiles.	☐
Pads				
Pad, medium-soft, red, 306 mm, 5 Piece(s)	21	6.369-826.0	5 pads, medium-soft, red, 306 mm diameter. For cleaning all floors.	☐
Pad, medium-hard, green, 306 mm, 5 Piece(s)	22	6.369-827.0	5 pads, medium-hard, green, 306 mm diameter. For removing stubborn dirt and basic cleaning.	☐
Pad, hard, black, 306 mm, 5 Piece(s)	23	6.369-828.0	5 pads, hard, black, 306 mm diameter. For removing stubborn dirt and basic cleaning.	☐
Pad drive boards				
STRONG pad drive board, 280 mm	24	4.762-445.0	Required for use of melamine pads, but can also be used for normal pads. Pad drive board with lots of extra hooks for holding pads. 2 pieces required.	☐
Diamond pad				
Diamond pad, fine, green, 306 mm, 2 Piece(s)	25	6.944-025.0	Ideal for maintenance cleaning: The green diamond pad cleans and polishes in a single step. It restores shine to matt hard floors and can also be used without chemicals.	☐
Diamond pad, coarse, White, 306 mm, 5 Piece(s)	26	6.371-248.0	White, coarse diamond disc pad for hard floor coverings. Removes minor scratches and creates a clean, even matt base for further treatment with yellow diamond disc pad.	☐
Diamond pad, medium, Yellow, 306 mm, 5 Piece(s)	27	6.371-249.0	Yellow, diamond disc pad for treating and maintaining hard floor coverings. For a silky matt surface which can then be polished with the green diamond disc pad.	☐
Diamond pad, fine, green, 306 mm, 5 Piece(s)	28	6.371-234.0	Green, fine diamond disc pad for polishing polishable floor coverings. Creates high-gloss surfaces and can also be used for crystallisation.	☐

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

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		Order no.	Description	
DISC PADS / PAD DRIVE BOARDS				
Melamine pads				
Melamine pad, Grey/white, 305 mm, 2 Piece(s)	29	6.371-361.0	White melamine disc pad for intermediate and deep cleaning of microporous surfaces, as well as fine stone and other hard floor coverings. Can also be used for removing grey haze.	☐
TRACTION BATTERIES AND CHARGERS				
Batteries				
Drive battery LIB 25,6V / 80Ah, 25,6 V, 80 Ah, Li-ion	30	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.	☐

☐ Available accessories.