

KÄRCHER

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Do it fully autonomous. **kaercher.com**



GOOD FOR BUSINESS. EVEN BETTER FOR YOUR TEAM.

Floor cleaning is time-intensive, and qualified personnel are scarce. The Kärcher KIRA B 50 cleaning robot is the ideal solution and a great addition to any cleaning team. While it cleans medium and large areas efficiently, just like a scrubber dryer, it does so fully autonomously. Your cleaning team can use this time to focus on more complex cleaning tasks. That's good for business – and even better for your team.



FIVE ADVANTAGES OF THE KIRA B 50 CLEANING ROBOT

- Less work: cleaners no longer have to perform monotonous tasks, instead taking on more complex work.
- Cost-effectiveness: the ability to perform cleaning tasks in parallel saves time and increases productivity.
- Operation: intuitive operation thanks to a large touch display, simple maintenance and servicing.
- Safety: safety certified for public areas thanks to excellent perception of environment.
- Autonomy: an optional docking station facilitates fully autonomous replacement of resources. The cleaning module keeps manual preparatory work and rework to a minimum.

MANY BENEFITS RIGHT FROM THE START

Comprehensive equipment, excellent cleaning performance, cost-effective and intuitive operation: the KIRA B 50 cleaning robot is impressive both at first glance and during day-to-day use.



Docking station

- Enables fully autonomous operation
- Automatic resource replacement (charging the battery, refilling with fresh water, draining dirty water and rinsing the tank)
- Docking station is optionally available (operation also possible without docking station)



Roller brush head

- Pre-sweeping and scrubbing in a single step
- Keeps manual preparatory work and rework to a minimum
- Excellent cleaning performance, even on textured and uneven floors

Side brush

- For cleaning right up to the edge
- Conveys dirt from the edge into the cleaning path
- Keeps manual preparatory work and rework to a minimum

Multisensor system

- Powerful optical and acoustic sensors
- 360° view from laser sensors
- Reliable detection of glass and overhangs
- Sensor monitoring of side areas

ONE MORE TIP:

For maintenance cleaning of the cleaning robot's sensors, the SurfacePro Glass Cleaner CA 40 R eco!perform is particularly suitable, as is the velour microfibre cloth from Kärcher.

EXCELLENCE IS IN THE DETAIL

It's the many details, big as well as small, that turn good ideas into excellent cleaning robots. For maximum performance and safety.



Extensive standard equipment

- High-performance lithium-ion battery
- Dose cleaning agent dosing system that conserves resources
- Time-saving auto-fill function and auto-matic dirty water tank rinsing
- Speed-dependent water dosing
- Flashing beacons to increase safety
- Innovative LED light modules



Connectivity

- Access to detailed information via the KIRA web portal
- Web portal containing cleaning reports, notifications, machine statuses and much more
- Sending of notifications and status messages to mobile devices



Compactness

- Compact design
- Facilitates use in narrow spaces



Obstacle avoidance

- Reliably recognises unknown obstacles
- Automatic planning of route alterations to avoid obstacles
- Autonomous recovery manoeuvres prevent cleaning interruptions



Safety certifications

- Safe, contactless detection of obstacles, potential for falls and people
- Safety certified in accordance with CSA_22.2 No. 336-17 and IEC 63327
- Suitable for operation in public areas



Operation

- Large, high-resolution touch display for easy, intuitive control of all machine functions
- Graphic user interface provides clear instructions, illustrations and animations, guiding the user through all steps required in a straightforward and understandable way
- Simple to set up and operate the robot without the need for expert knowledge



Operating modes

- Autonomous and manual operation possible
- Allows for manual spot cleaning
- Several user profiles can be set with individual levels of authorisation

KIRA B 50. EFFICIENCY. AS STANDARD.



Thanks to the powerful 160 Ah lithium-ion battery, roller brush technique with pre-sweeping function, side brush and 55-centimetre working width, the cleaning performance of the KIRA B 50 is comparable to that of a conventional scrubber dryer in every way.

The compact, manoeuvrable scrubber dryer robot is impressive, not only in environments where space is limited, but also over large areas, making it ideal for floor cleaning in the transport sector (airports, stations, logistics warehouses), retail units and shopping centres, healthcare settings (hospitals, care facilities), public buildings (schools, universities, museums, sports halls) or for cleaning production and manufacturing halls in industry.

With efficiency as standard, the machine ensures consistently outstanding cleaning results within a pre-determinable time frame. To do so, the water volume, detergent dosing and speed of cleaning used can be preset.

This allows for well-calculated consumption of resources and therefore also approximately consistent costs for each individual cleaning process. Furthermore, the cleaning solution is applied in accordance with the speed of the machine. This ensures that the quality of cleaning is to a high standard, as well as saving resources and money.

CLEAN FLOORS PERFECTLY. BUT ALSO COST-EFFECTIVELY.

Anywhere that large floor areas regularly have to be cleaned, the cost-effectiveness as well as the quality of cleaning will be the focus for customers and contractors.

Cleaning professionals in building cleaning, airports, supermarkets or in manufacturing halls know that floor cleaning is fundamentally hugely staff-intensive and time-intensive, meaning it is also unfortunately relatively expensive.

Often, qualified cleaners who could in fact be using their time to do more complex tasks are called on to carry out the work. In other cases, such as in retail units or in the trans-

port and logistics sectors, other employees often fill the gap, yet they are then not available to contribute to the core business.

The fully automated KIRA B 50 scrubber dryer provides a solution here, cleaning floor areas independently and, if desired, fully autonomously. This reduces not only the use of personnel but also enables cleaning tasks to be performed in parallel.



As the machine cleans floors without any decrease in quality, doing so reliably right up to the edges, this significantly frees up the team, who can then use this time to perform more challenging tasks in other locations. In this way, people and machines can work particularly productively together, ensuring that cost-effectiveness is significantly higher for floor cleaning than was previously possible.

FULLY AUTOMATED, WELL-THOUGHT-OUT CLEANING FROM START TO FINISH

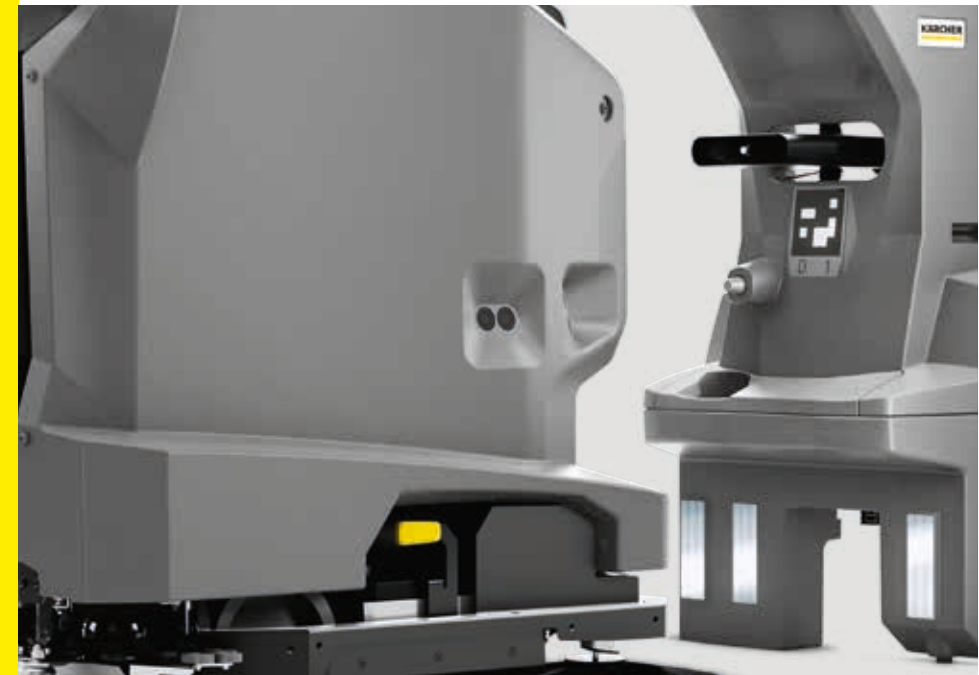
Once started, the KIRA 50 B cleans a predefined area completely independently. The optional docking station takes cleaning to a whole new level.

Cleaning floor areas autonomously using the Kärcher cleaning robot means that the cleaning team no longer have to perform monotonous tasks, which increases productivity.

The tried-and-tested roller brush technique with pre-sweeping function for coarse dirt, as well as a side brush for cleaning right up to the edge, not only ensure excellent cleaning results but also reduce the need for manual preparatory and follow-up work to a minimum. As a result, the only human intervention that is required, apart from maintenance, is refilling the fresh water, cleaning the dirty water tank and, of course, also making sure that the battery is charged.

The docking station even removes the need for these tasks, turning the independent cleaning robot into a fully autonomous machine that looks after itself. All it needs? Connections for fresh water and electricity for the docking station at the planned site. A floor drain, ideally located at floor level, should also be present.

As needed, the KIRA B 50 docks at the docking station and everything else happens automatically – from refilling the fresh water tank to emptying and rinsing the dirty water tank and charging the lithium-ion battery. Using several stations in parallel is also perfectly possible – for example, to reduce pathways and optimise processes for cleaning very large areas.



YES. OPERATING THE MACHINE REALLY IS THAT SIMPLE.

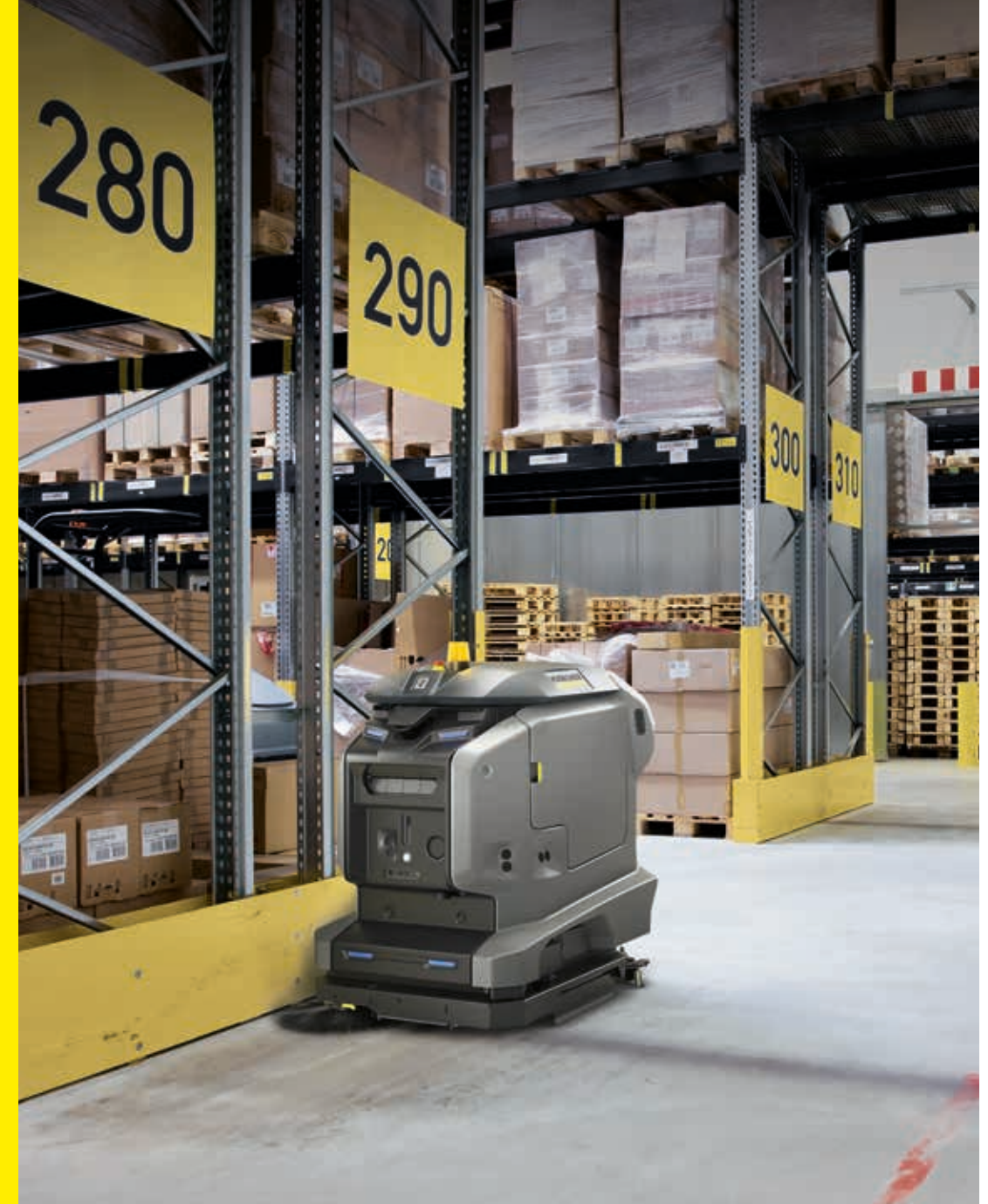
Anyone who can operate a smartphone will have no problem with the KIRA B 50. No need for any expert knowledge or specialist expertise. And that's a promise.

Highly complex technology can only be said to have fully come into its own once it has become easy to operate. This is the case for smartphones as well as for today's generation of vehicles, and, of course, it is also the case for a fully autonomous scrubber dryer.

This is why all the settings on the KIRA B 50 – even its full operation – are very easy for non-specialists without expert knowledge to perform, thanks to intuitive menu and user guidance and straightforward set-up concepts. No one will find themselves having to remember countless knobs and levers, because there

simply aren't any. Everything works in a user-friendly manner with various languages that can be selected via a large, central touch display.

Clear instructions and straightforward illustrations ensure that operation is simple in any situation, including setting up the machine for the intended cleaning tasks, starting autonomous cleaning, activating the cleaning units and using manual cleaning mode. The display always shows the buttons required for the current task only – unambiguous, clear and safe. Even the surroundings detected by



the sensors can be visualised using a map during set-up, so that you can see even more precisely what the cleaning robot detects and where it has already cleaned.

To ensure security, several user profiles with different levels of authorisation can also be assigned. This means that you decide who is allowed to carry out which settings on the machine, and as a result you can almost completely exclude the possibility of incorrect operation by unauthorised persons.

DOES EXACTLY WHAT YOU WANT

The KIRA B 50 is not about strict schedules. Instead, it offers the maximum level of flexibility in use – perfectly attuned to your actual current cleaning requirements.

In short, a cleaning robot should take the weight off the shoulders of your cleaning team, provide support and do exactly what is required of it at any point. In addition, environmental conditions and cleaning requirements can change almost daily, for example if there are barriers in an airport or obstacles have to be dealt with in a logistics warehouse, or, in public buildings with a high footfall, cleaning requirements increase due to wet weather. Flexible availability and robust, reliable navigation are crucial here – qualities that the KIRA B 50 effortlessly brings to bear, offering the highest level of flexibility.

Be it extensive cleaning tasks over large areas or quick use as a manual scrubber dryer, the intelligent concept allows for both options and everything in between. Thanks to its easy operation, setting up the machine for your intended purpose is a breeze and can be done without the need for expert knowledge. Partial areas can also be cleaned individually instead of complete large surfaces, and cleaning sequences can be adapted to current, day-to-day needs. Even in the event of changes to the surroundings in a partial area, all you need to do is set this part up again; the settings for the remaining area are retained.





SAFE NAVIGATION. CERTIFIED SAFETY.

Safety is paramount. Always. That is why the cleaning robot's environment perception system is designed for optimal navigation, as well as with a particular focus on guaranteeing the safety of people in the area.

Integrated laser scanners, 3D and ultrasound sensors, a powerful on-board computer: the comprehensive equipment on the cleaning robot simultaneously ensures optimal 360° detection of the environment, recognition of overhangs over the entire machine height and on the side areas, quick responsiveness and reliable navigation. The sensors reliably detect changes in the environment and even transparent obstacles such as glass doors, independently performing avoidance manoeuvres where necessary. Thanks to intelligent recovery manoeuvres, the KIRA B 50 finds its own navigation solutions, even in tricky situations such as dead ends.

To do so, an integrated warning light concept safely and reliably informs people in the area about the cleaning robot's behaviour and change in direction. The robot is safety certified in accordance with CSA_22.2 No. 336-17 and IEC 63327 for use in public areas. Upon request, a spotlight can also be fitted, which draws attention to the cleaning robot, for example at corridor junctions in buildings.



FULL CONTROL. AT ALL TIMES. EVERY- WHERE.



The cleaning robot is connected directly to a web portal, which shows you all the important machine data at a glance, at any time and from anywhere, so that you have everything under control at all times.

Whether you have a single machine or a full fleet of cleaning robots, the dedicated web portal allows you to manage everything conveniently and clearly in just a few clicks – from your desk or when you're out and about. The KIRA B 50 automatically sends clear cleaning reports with detailed usage information, providing you with perfect documentation, and also keeps track of other messages in a notification log.

You can receive important notifications, such as machine malfunctions or the status of a cleaning task, directly by e-mail or text message. Of course, it is also possible to select employees on-site to receive notifications, so that they can intervene if necessary.

FULLY EQUIPPED. STRAIGHT FROM THE FACTORY.

Either with or without a docking station, the KIRA B 50 is always prepared for fully autonomous operation, offering an abundance of outstanding equipment features.



Alongside expected features such as high-tech sensors, powerful lithium-ion batteries and innovative LED light modules, the cleaning robot offers a range of equipment features to achieve the best cleaning results and convenient operation. The tried-and-tested roller brush system with pre-sweeping function and side brush ensures your floors are clean and keeps manual preparatory work and rework to a minimum. The convenient auto-fill function reduces the time required to fill the fresh water tank, and the dirty water tank is also rinsed automatically. The Dose cleaning agent dosing system allows cleaning agent to be dosed precisely, and speed-dependent water dosing ensures optimal water

consumption. Together, the systems help to conserve resources and reduce costs. When using the optional docking station, resource replacement on the cleaning robot takes place automatically, as does charging. Human intervention is therefore only required for maintenance purposes.

Technical data		
Working width	mm	550
Fresh/dirty water volumes	l	55 / 55
Brush type		Roller brushes
Battery type		Li-ion
Battery	V / Ah	24 / 160
Battery runtime	h	3.5
Maximum speed, autonomous	km/h	3.6
Max. area performance	m²/h	2,000
Length x width x height	mm	1,062 x 760 x 1,161
Weight without water	kg	228
Climbing ability, autonomous	%	6
Min. clearance width, autonomous	mm	1,000
Wall clearance, autonomous	mm	100

KIRA CARE: OUR SERVICE. YOUR BENEFIT.

When calculating your costs, nothing is more helpful than being able to determine your expenditure in advance as precisely as possible. With the KIRA Care and KIRA Care Plus service packages, you know in advance exactly what lies ahead. Benefit from comprehensive services that make your day-to-day business operations so much easier.



The KIRA Care package always includes access to the web portal, software updates and a functional guarantee, which also covers the battery. Of course, you can rest assured that only original spare parts and trained and experienced service technicians will come to your aid should maintenance be required, the cost of which is naturally already covered by your care package. There's no need for you to expend any time or effort, since we plan and coordinate our Factory Customer Service visits so that you don't have to worry about a thing.

You can cover even more eventualities with the KIRA Care Plus package. For example, in the event of a machine failure, you will receive a replacement immediately, as well as benefiting from particularly fast response times or simply having all required consumables included upfront. What is more, you will regularly receive tailored advice for efficient use of your cleaning robot.

Whether it is for purchasing, renting or financing, the KIRA Care packages are the perfect complement to your autonomous Kärcher scrubber dryer.

Features	KIRA Care	KIRA Care Plus
Set-up	■	■
Instruction and user training	■	■
KIRA success management	-	■
Inspection and maintenance	■	■
Functional guarantee	■	■
Replacement machines	-	■
Battery	■	■
Consumables	-	■
Mobile communications and connectivity	■	■
Software updates	■	■
Technical hotline/support	Business hours	Priority/extended
Reaction time	Standard	24 h
Resolution time	Standard	48 h

RESEARCHED. TESTED. SUCCESSFUL.



Forty years of experience in chemicals development – our experts collaborate across disciplines in the research, development and testing of new cleaning agents and application methods. To achieve the best results and safe application, the team have state-of-the-art laboratories and top research and testing facilities at their disposal.

Through close collaboration with industrial customers and private users, our technologies are always setting new standards. Worldwide.

Top-level development The new chemical laboratory is at the centre of the research and development of innovative cleaning and care agents. Our experts analyse every type of dirt on all surfaces so that it can be professionally removed, picked up and disposed of. Every product that is developed here for our industrial and private customers is created using holistic thinking from the very beginning, systematically and entirely at Kärcher.

Sustainable right from the start Meeting environmental standards is becoming increasingly important. This is why Kärcher places particular value on the sustainable selection of raw materials, the development and production process and the use of resource-conserving packaging solutions throughout the whole production chain.

Made in Germany Highest quality – Kärcher produces its own cleaning products in order to achieve consistently high quality, sustainable production and the best delivery capacity. Using our highly flexible system, 0.5-litre bottles and tankers with capacities of up to 20,000 litres can be filled promptly and very economically from 25,000-litre mixing drums.

Perfect cleaning solution Kärcher cleaning and care agents are just as versatile and powerful as the units and machines in which they are used – because they are specially developed for use with Kärcher cleaning machines. This combination is key: the effective interplay between machine and cleaning agent guarantees optimal cleaning.

POWERFUL. SAFE. ENVI- RONMENTALLY FRIENDLY.



FloorPro Cleaner
CA 50 C eco!perform



FloorPro Fine Stoneware Cleaner
RM 753



FloorPro Wipe Care Extra
RM 780



FloorPro Industrial Cleaner
RM 69

Depending on the location of use, the floor covering and how dirty it is, Kärcher recommends various cleaning agents to be used with the KIRA B 50 cleaning robot – every one, of course, perfectly tailored to the machine, safe to use and environmentally friendly.

FloorPro Cleaner CA 50 C eco!perform
This all-rounder can be used universally, virtually anywhere and on all water-resistant and alcohol-resistant hard and flexible surfaces. The cleaner reliably removes footprints, dust, dirt caused by emissions, prevents quick recontamination and achieves streak-free cleaning even on high-gloss surfaces. What is more, the CA 50 C eco!perform boasts EU Ecolabel certification.

FloorPro Fine Stoneware Cleaner RM 753
This special cleaning agent for fine stone-ware tiles reliably removes even stubborn oil, fat and mineral contamination, whilst preserving the slip-resistant effect of the tiles. This makes it particularly suitable for use in retail units and shopping centres.

FloorPro Wipe Care Extra RM 780
Powerful cleaning and care agent for maintenance cleaning of all water-resistant, hard and resilient floors and floor coverings. Anti-slip certified in accordance with DIN V 18032-2:2001-04 and therefore particularly suited to use in sports halls and multi-purpose halls.

FloorPro Industrial Cleaner RM 69
In areas with the highest levels of contamination, such as in industrial contexts or in the transport sector, the industrial cleaner ensures powerful and low-foam removal of even the most stubborn fat, oil, soot and mineral contamination on all water-resistant, alkali-sensitive and alkali-resistant floors.

WE ARE JUST A QUESTION AWAY



services

By professionals for professionals – as a global market leader, Kärcher offers you a diverse range of top-class services, as well as innovative and customised solutions for your requirements. We are happy to help. Every time you need our support.



cleaning consulting



all brands service



financial solutions



original spare parts



pay per use



service



service packages



used



rental

MORE INFORMATION

Our support for your success: we are your reliable partner when it comes to cleaning.

More information about our top services can be found at [kaercher.com](https://www.kaercher.com)



makes a difference

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