

**KÄRCHER**

# GALACTIC POWER. ENDLESS POSSIBILITIES.

Unleash the full power.

PROFESSIONAL | KÄRCHER BATTERY UNIVERSE

# ENDLESS POWER. NO CABLE.

ENDLESS POSSIBILITIES The world of professionals.  
This is the 21st century. It's all about the new star in the  
battery sky: welcome to the Kärcher Battery Universe.  
Endless compatibility, performance and safety.



**18 V / 36 V**

**BATTERY POWER+**

# BATTERY PLATFORMS DISCOVERED.

Explore our range of battery powered machines, featuring either an 18V or 36V battery platform but all benefiting from the benefits of battery.



## 18V MACHINES

HV 1/1 Bp

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BR 30/1 C Bp

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ES 1/7 Bp

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## 36V MACHINES

HD 4/11 C Bp

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BVL 5/1 Bp

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NT 22/1 Ap Bp L

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Puzzi 9/1 Bp

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CVS 65/1

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BR 30/4 C Bp Pack

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T 9/1 Bp

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A woman with glasses, wearing a blue Kärcher polo shirt and dark jeans, is operating a grey Kärcher floor cleaning machine. She is standing in a modern office hallway with grey carpeting and white cubicle walls. The machine has a large black handle and a yellow Kärcher logo on the front. The text "BATTERY TECHNOLOGY REDESIGNED" is overlaid in large white letters on the lower half of the image.

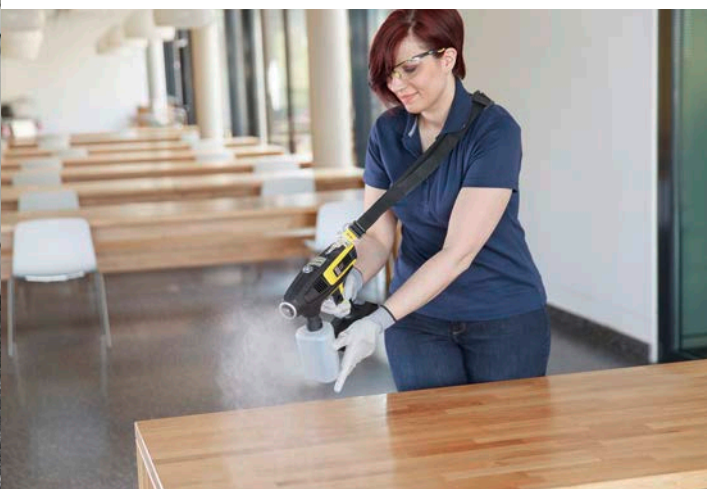
# BATTERY TECHNOLOGY REDESIGNED

## **There are batteries – and there is the Kärcher Battery Universe**

Technical improvements mean that battery technology is increasingly replacing mains power. This is also true for high-performance devices and machines. This opens up more and more new professional application possibilities in the cleaning world as well. Being able to work without power outlets and cables gives you a previously unknown degree of flexibility and comfort in many activities, whether you are cutting hedges or vacuuming in the narrow rows of seats of an

aeroplane or cinema. Kärcher battery technology also allows facade cleaning at high pressure, with large trailers serving as a mobile water source. All applications are noticeably easier and you save time as you no longer need to wind and unwind cables or look for power sockets. And you'll never trip over a cable again.





So that you can also use Kärcher battery technology as universally as possible, we developed the 2 Kärcher Battery Power+ battery platforms for professional users: batteries with 18 or 36 V voltage and capacities which are compatible with all devices and machines in a voltage class. This maximum compatibility gives you freedom of use and minimises the investment costs.

# KÄRCHER BATTERY POWER+

With the development of our new battery technology, we created products that are not only innovative, but also sophisticated. And we did so deliberately to meet the widest possible range of requirements.

The display of the charging state of the battery in real time (Real Time Technology), for example, shows you exactly the current charging state. You get not only a modern, but also a completely future-oriented battery system. Kärcher Battery Power+ is prepared for new cell technologies, which can be set up on the same interface and offer even greater power and endurance.





**Endless compatibility:** all batteries in the Kärcher Battery Universe are exchangeable within their voltage class without any restrictions, even between Professional and Home & Garden machines.

**Real Time Technology:** integrated LC display with intelligent indication of remaining running time and charging time to improve information and increase safety.

**Automatic battery monitoring:** protection against overloading when charging and discharging, as well as against overheating, deep discharge and other harmful states.

**Watertight:** once inserted in the machine, the battery is protected against water spray from all directions (protection class IPX5).

**Housing with integrated soft components:** utmost mechanical sturdiness and grip in any situation.

**High peak performance:** processor-based and with optimised heat buffering.

**Powerful lithium-ion cells:** consistent performance with low self-discharge and no memory effect. The battery can be charged to maximum capacity in every charging state loss-free.

**Battery Power+ batteries:** extremely powerful lithium-ion batteries with long runtime and service life. Available in 18 V/3.0 Ah, as well as in 36 V/6.0 Ah or 36 V/7.5 Ah.

**Battery Power+ battery chargers:** battery chargers compatible with our batteries in a modern, high-quality design with LED operating state display. Short charging times thanks to the high, electronically controlled charging current of max. 6 A. Low current consumption in standby. Can also be wall-mounted.

**Battery Power+ 18/60 battery charger for 18 V/6 Ah batteries.**  
**Battery Power+ 36/60 battery charger for 36 V/6 Ah batteries.**





# STATE-OF- THE-ART TECHNOLOGY FOR HEAVY-DUTY USE

Technology must serve mankind.  
For professional users in cleaning we  
applied this principle to the robust  
extreme of battery technology.

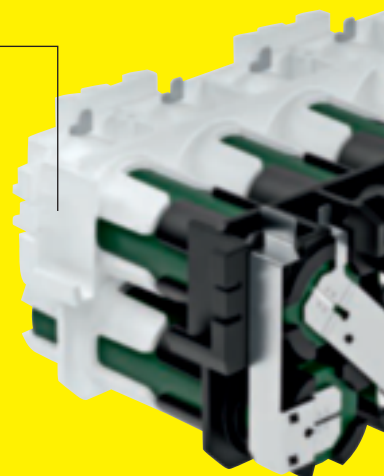
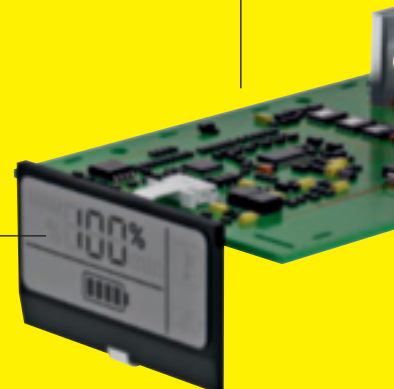
## USP

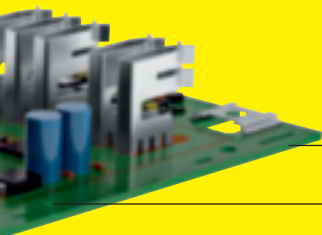
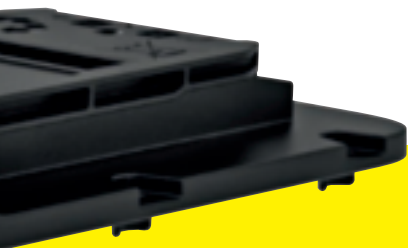
**Knowing instead of estimating – Real Time Technology.** Traditional batteries display their charging state via a simple bar chart, which only allows a rough estimate of the remaining runtime. Because it often happens that the remaining runtime is assessed too optimistically. Then the machine suddenly gives up and the work comes to a halt. Our new Kärcher batteries display the charging state and the remaining running time continuously in real time and to the exact minute – depending on the power requirement in the current application. And the battery chargers in the Kärcher Battery Universe, whether a plug-in charger or desktop charger, show the remaining charging time in minutes.

**Power and safety – temperature monitoring.** With batteries safety and optimal power depend largely on the temperature management. The Kärcher battery management always keeps the battery in an optimal temperature range and thus protects it against overheating, possible spontaneous combustion and premature ageing. The intelligent mechanical design also helps here, assisting with efficient heat dissipation and thus a stable heat balance. The battery temperature is measured and monitored precisely on a continuous basis in order to guarantee the maximum possible power output at any time. The power is reduced accordingly only if the battery becomes too hot. A sudden temperature-related shutdown is prevented, as can happen with traditional batteries.

## USP

**Pleasant and comfortable – the handling.** It always comes down to the details. Soft components are integrated in our battery-powered machines and Battery Power+ batteries, which allow simple handling and a good grip. For a battery this is technically insignificant, but a major benefit for the professional user.





#### **When technology thinks for itself - the machine communication.**

The batteries of the Kärcher Battery Power+ platform communicate with the machine in which they are used. This way information can be read from the machine and displayed in the machine, even if the battery is in a difficult to access position.

**Always fast and never too much - overload protection.** All battery cells are protected against overcurrent with active and passive safety devices. Very fast current measurement connected to a cut-off device in the form of power conductors is carried out in the battery. The passive protection comprises a cleverly integrated safety fuse in the event of a complete electronics failure. The protection electronics are entirely integrated in the battery and thus independent of the machine.

**USP**

**Voltage without any surprises - voltage monitoring.** In Kärcher batteries the voltage monitoring monitors the voltage in all cells. For instance, the battery is protected against a low voltage range during operation, i.e. deep discharge with the risk of a short circuit within a cell. Overvoltage during the charging process, which could lead to spontaneous combustion, is also ruled out.

**Working instead of staying alert - protection against water spray and dust.** Robust quality and the protection of user and machine are essential in daily professional use. You have to focus on your tasks and not on whether dust or water could get into the electronics. Battery Power+ batteries are protected against dust and spray water in accordance with IPX5. The battery housings are made from robust plastic and are extremely shock-resistant. Our batteries have proven this in the toughest bench and application tests.





## SAFE ENERGY SOURCES

**Unscheduled breaks because the battery is empty? Not with our Battery Power+ quick chargers.** They charge their Battery Power+ batteries to maximum capacity in just 60 minutes. Or they can perform a quick charge so that the final tasks can be completed. On the LED display and the control lamps you see at an instant the progress of the charging process and when it will be completed. With 2 to 3 batteries you won't have to take any unscheduled breaks either. The 2 metre charging cable permits professionals to locate the charger safely and close at hand.

Battery Power+ 18/30	Battery Power+ 36/60	Battery Power+ 36/75
Voltage	18 V	36 V
Capacity	3.0 Ah	6.0 Ah
Battery energy	54 Wh	216 Wh
Charging time	60 min (100%)	68 min (100%)

Quick charger Battery Power+ 18/60	Quick charger Battery Power+ 36/60	Universal battery charger Battery Power+ 18-36/60
Voltage	100 - 240 V	100 - 240 V
Frequency	50/60 Hz	50/60 Hz
Max. charging current	6.0 A	6.0 A



**36 V  
POWER  
FOR  
ANYWHERE**





# HIGH PRESSURE OFF 2 × 36 V

## Always have an overview of the runtime

On the externally visible battery charge level indicator with LC display you see the charging state and the remaining runtime at a glance. And with the eco!efficiency button you extend the runtime for less intensive cleaning tasks.

## Innovation based on experience

Our HD 4/11 C Bp is based on the HD compact class - our best-selling professional pressure washers. Technology that has proved its worth a million times over, combined with cordless innovation.

**Made for heavy-duty use** The water- and dirt-repellent battery compartment reliably protects the two 36 V/7.5 Ah Battery Power+ batteries.

**Fully independent** Clean everywhere with Battery Power+. Independent of the power supply and even completely independent thanks to the suction hose and water tank.



**HD 4/11 C Bp**

Brushless 72 V motor

2 × 36 V/7.5 Ah Battery Power+

Working pressure 110 bar

Runtime 24 min

in ecoefficiency mode 34 min

Water volume 320 - 400 l/h

You no longer have to dream about high-pressure cleaning without the need for a power or water supply. Make it simple. Our HD 4/11 C Bp is the first battery-powered professional high-pressure cleaner on the market.

Driven by 2 powerful 36 V Battery Power+ batteries, 72 V is available for maximum cleaning power and endurance. In eco!efficiency mode for a longer operating time at reduced power, you can clean for 34 minutes without any interruptions. Using the water suction hose supplied with the machine, you can even work without access to the water mains. This opens up brand new applications and areas of use. You save lots of time thanks to the high flexibility and minimal set-up times as you need no power and water connection. And this quickly brings you higher revenues.



# 36 V FREE. POWERFUL. MOBILE



**Ultra lightweight** thanks to the innovative EPP material which is extra robust and meets the highest Professional requirements when it comes to ergonomics and stability, the BVL 5/1 Bp is up to -50% to predecessor

**Work without any strain** Easy and comfortable working with the ergonomic carrying frame, allowing for a fatigue-free working experience which ultimately protects users and saves time.

**Brushless turbine** reduce maintenance costs and significantly extend the lifetime of the BVL 5/1 Bp with technology that delivers a higher efficiency rate and lower power consumption.

**BVL 5/1 Bp**

Air flow	40 l/s
Vacuum	223 mbar
Container capacity	5 l
Nominal power	4.6 W

The BVL 5/1 Bp is the world's first battery-operated backpack vacuum cleaner made of innovative & ultra-lightweight EPP material!

The BVL 5/1 Bp is the ultra-lightweight, compact and powerful battery-operated backpack vacuum cleaner with large container capacity for cleaning in all difficult accessible locations. With an outstanding performance and increased flexibility enables increased productivity and a whole new working experience. You'll also save on costs too, with no power cables proving the opportunity to fail.



# 36 V CORDLESS VACUUMING



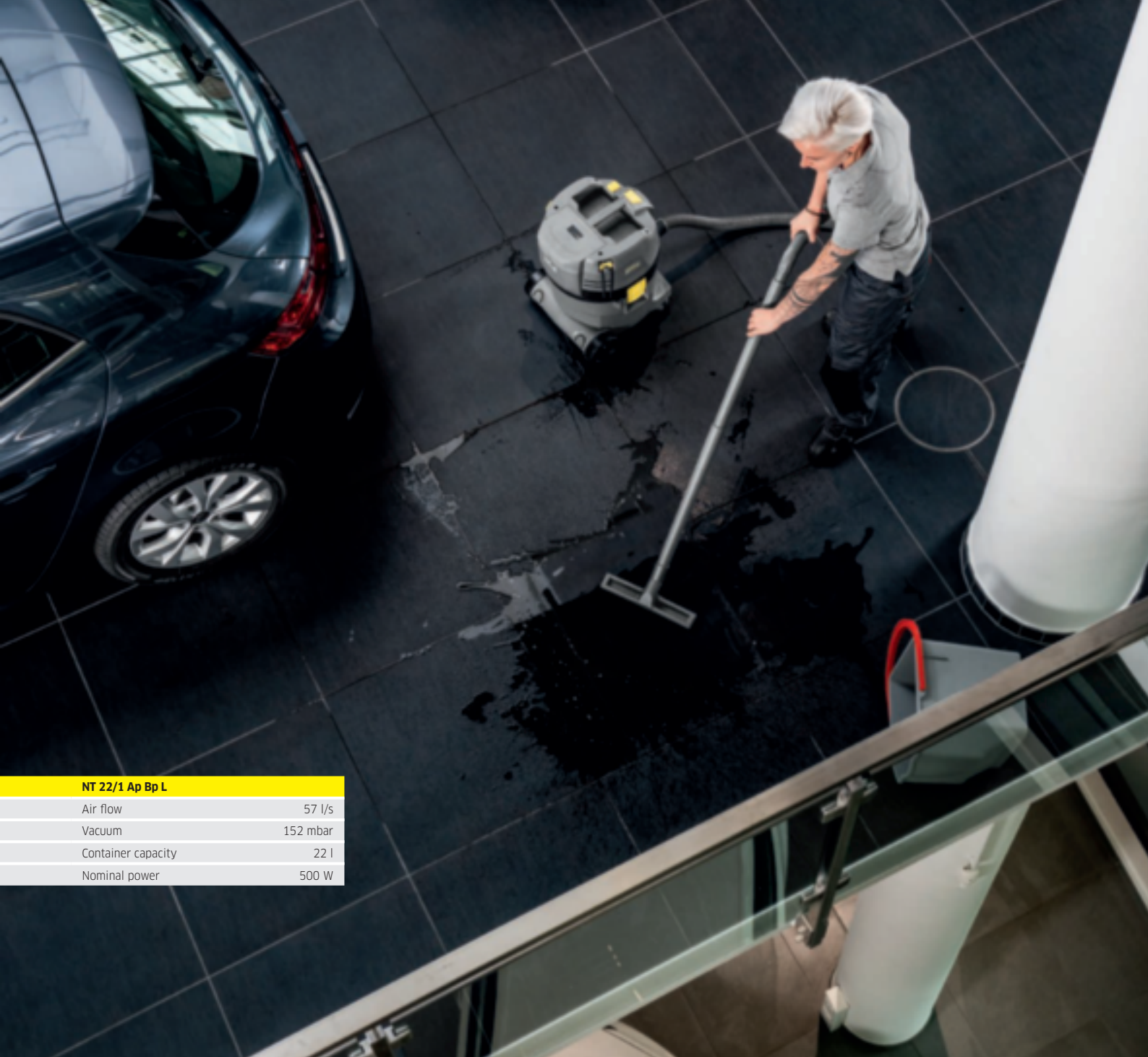
**Continue working at the touch of a button**

The semi-automatic filter cleaning maintains the high suction power and extends the life of the filter.

**Light and compact** With its low weight and compact dimensions, the NT 22/1 Ap Bp L is very mobile and can be used practically anywhere.

**Well protected with cover** The protection cover for the battery compartment effectively protects the battery against dirt and liquids.

**Everything in its head** The flat machine head provides a storage area for small parts.

**NT 22/1 Ap Bp L**

Air flow	57 l/s
Vacuum	152 mbar
Container capacity	22 l
Nominal power	500 W

The distances to power outlets are often long and corded vacuum cleaners cause dangerous tripping hazards, e.g. in salesrooms or foyers/lobbies. But that doesn't matter now. With our new wet and dry vacuum cleaner NT 22/1 Ap Bp L, you can clean anywhere, without the need for a power supply.

A top innovation. Our NT 22/1 Ap Bp L is the first really professional battery-powered wet and dry vacuum cleaner on the market. With Battery Power+ 36 V you have the same suction power as a corded machine. The batteries can be exchanged freely between all Kärcher 36 V machines. At full power the NT 22/1 Ap achieves a run-time of 31 minutes and a significantly better suction power than any competitor machine. With its low weight of only 8.8 kg, the NT 22/1 Ap Bp is the ideal vacuum cleaner for mobile use. The powerful 36 V battery with 7.5 Ah, as well as the quick charger, are included in the scope of delivery of the pack version.

# 36 V CORDLESS



**Splash protected** the optimum battery design means water splashes or dropping during filling and accidental spraying on the battery are harmless.

**100% mobility** unlimited, flexible cleaning wherever necessary with the Battery Power+ 36/75

**Time's on your side** comfortable operation time of 35 min. with one machine filling



**Puzzi 9/1 Bp**

Air flow	57 l/s
Spray pressure	0.16 MPa
Power rating	max. 575 W
Weight	9.8 kg

Our Puzzi 9/1 Bp offers customers a new level of independence: no cable, no socket, cleaning wherever necessary.

The cordless Puzzi 9/1 Bp is the first professional battery-driven spray-extractor in the world. Its innovative technology allows the user to be 100% mobile and clean wherever needed.

Although its handling is simple, the machine was built to be robust and powerful, providing excellent cleaning results on all textiles wherever they may be.

# 36 V CORDLESS



**Unlimited power** a second battery can be carried inside of the machine for almost non-stop operation.

**Compact and quiet** with a sound power level of < 60 DB work cleaning is still possible during busy working environments

**Second battery on board** don't waste time searching for a second battery when it's kept on board



**CVS 65/1**

Sound pressure level	< 60 dB(A)
Brush speed	640 1/min.
Vacuum	< 1 mbar

The CVS 65/1 Bp is the ideal partner for cleaning medium to large carpet areas, with low noise and maximum flexibility.

Our CVS 65/1 Bp carpet vacuum cleaner's powerful 36 V lithium-ion battery enables up to 60 minutes of highly effective carpet cleaning at a time. The carpet sweeper is particularly suitable for cleaning needle fleece and short velour. Since the machine's main sweeper roller can be optimally adjusted to a wide variety of carpet types, it is easy to use on loop-pile carpets and long velour.

# 36 V CORDLESS



**Compact and lightweight design** making it the ideal partner for cleaning in tight areas

**Roller brush technology** highly versatile and suitable for any floor type

**Unrestricted and cordless** easily move between cleaning areas and reach places you've never been able to reach



**BR 30/4 C Bp Pack**

Sound level	69 db/A
Weight	14 kg
Area performance	max. 200 m <sup>2</sup> /h
Brush down pressure	100 g/cm <sup>2</sup>

The very mobile, cordless machine is ideal for cleaning floors in small areas or even in addition to existing larger scrubber dryers.

Like manual cleaning, only much better: our battery-powered BR 30/4 C Bp Pack scrubber dryer is a real alternative to the manual cleaning of hard surfaces of up to 200 m<sup>2</sup> due to its compact shape and its very lightweight design. With a 10x greater contact pressure than a conventional mop, see significantly better cleaning results every time.



# 36 V CORDLESS



**Efficient vacuuming for longer** The eco!efficiency function reduces the suction power if needed, thus extending the battery runtime.

**Lightweight** With its low weight and compact dimensions the T 9/1 Bp is very mobile and can be used practically anywhere.


**Best for your posture** The ergonomic bend with soft components sits comfortably in your hand, making it possible to work comfortably without fatigue, even for long periods.

**T 9/1 Bp**

Air flow	40 l/s
Vacuum	220 mbar
Container capacity	9 l
Nominal power	500 W

It no longer matters whether it is a battery-powered or mains-operated machine with our powerful battery-operated dry vacuum cleaner T 9/1 Bp: power and cleaning results like a corded dry vacuum cleaner.

With our battery-powered dry vacuum cleaner T 9/1 Bp you get the best cleaning performance on the market and you experience this every day in use. You will be impressed by the free, unobstructed work without a cable, as well as the surprising mobility and flexibility. And the enhanced productivity with less effort and a significant time saving will convince you. All this makes our T 9/1 Bp the ideal dry vacuum cleaner for building service providers and cleaning tasks in the transport sector, hotel industry and retail trade.

A close-up photograph of a person's hand holding a black flexible vacuum hose, which is being used to clean a grey carpet. The person's arm and part of their torso are visible on the right side of the frame. The background is a plain, light-colored wall.

**18V  
VACUUMING  
WITHOUT  
ANY  
DETOURS**





# 18 V VACUUMING WITHOUT ANY DETOURS

**All-round flexibility** The 360°-rotatable port allows you to work in all directions. You can easily attach a variety of accessories at the port and thus use your HV 1/1 Bp for various applications.

**Easy to handle** The HV 1/1 Bp is extra light and compact. This makes it extremely easy to work with. And you can take your handheld vacuum cleaner anywhere.

**Economical and quiet** In eco!efficiency mode the reduced energy requirement allows for a longer battery runtime and an extremely quiet working environment.

**Incredibly powerful** The new battery-powered handheld vacuum cleaner HV 1/1 Bp impresses with its powerful turbine power and high air flow rate. The energy required is supplied by a 18 V li-ion Kärcher Battery Power+ battery: for the best cleaning performance on the market and an extra long runtime.

**Super ergonomic** Thanks to soft components in the handle area, the HV 1/1 Bp sits comfortably in the hand and is easy to guide.





**HV 1/1 Bp**

Air flow	33 l/s
Vacuum	47 mbar
Container capacity	0.9 l
Nominal power	115 W

Our HV 1/1 Bp with 18 V Battery Power+ battery delivers the best cleaning performance of all battery-powered handheld vacuum cleaners on the market: high suction power and extra long runtimes. The perfect vacuum cleaner for building cleaning, trade and the automotive industry.

Thanks to its ergonomic design with soft components, the robust HV 1/1 Bp sits securely in the hand. No slipping. Secure footing in any position. And it saves you unnecessary journeys and thus time. Unwinding and winding up the cable and looking for a power outlet are now a thing of the past. You can move around any piece of furniture without having to watch out for the cable. Think about how much time this previously cost you. And how many steps and journeys you no longer have to make in the future. Then you understand why battery-powered machines have the potential to increase productivity by up to 25 percent.



# 18 V HYGIENIC CLEANING



**60% faster drying result** helps to increase safety and reduce the risk of accidents

**Integrated pre-sweep function** reduce cleaning time by up to 50% as vacuuming in many cases is no longer required before

**Comfortable design** there's no need to carry a bucket around anymore, increase productivity with higher comfort

**BR 30/1 C Bp**

Working width	300 mm
Roller pressure	40 g/cm <sup>2</sup>
Sound pressure level	55 dB(A)

Ideal for hygienic maintenance cleaning and floor disinfection on small areas: we introduce the compact BR 30/1 C Bp Pack cordless scrubber dryer.

Our new, ultra-compact BR 30/1 C Bp Pack cordless scrubber dryer is the ideal choice for hygienic cleaning of all types of hard flooring, including tiles and safety flooring. Compared with manual floor cleaning, the microfibre roller technology achieves up to 20 per cent better cleaning results and up to 60 per cent quicker drying times.

# 18 V FLEXIBLE CLEANING.

**Cordless handheld lightweight design** making it easy to carry around and reach all the necessary areas

**Extremely quiet** can be used day or night without disturbing those around

**Electrostatic function** save money by wasting less disinfectant





**ES 1/7 Bp**

Sound level	57 dB(A)
Pressure	7 bar
Weight (including battery)	1.9 kg
Solution spray rate	0.1 l/min

Perfect for anywhere that cannot be reached with conventional wiping methods: The ES 1/7 Bp cordless hand sprayer with electrostatic function for disinfection of hard-to-reach areas.

The electrostatic function charges electrically the disinfectant solution so it's able to stick and coat evenly the surfaces and objects, ensuring a better coverage. This way no area is left untouched by the disinfectant solution, ensuring total disinfection.



makes a difference

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