

KÄRCHER

makes a difference



NO WEEDS STAND A CHANCE

Mobile, environmentally friendly, effective: weed removal with hot water

PROFESSIONAL | MUNICIPAL | IMPLEMENTS | WRS 200

EXTREMELY EFFECTIVE AND HIGHLY COMPATIBLE

Most people think of powerful high-pressure cleaners when they hear the name Kärcher. And rightly so. Based on all our know-how and expertise in the area of high pressure, we further developed systems for mobile weed removal. High pressure made mobile for you in the form of implements and that can be used everywhere and on many Kärcher municipal vehicles – from the MIC 42 through to the MC 130 Plus – in combination with hot water for the eradication of weeds.





JUST AS VARIED AS YOUR DAY-TO-DAY WORK

Mounted on a Kärcher implement carrier, our WRS 200 does not need an external power or water supply and can therefore also be used in remote areas. Besides the effective removal of weeds, it is also suitable for a variety of other applications.



Weed removal with hot water

Whether by machine with the mounted front beam or by hand with the hand lance: undesired weeds stand no chance. Even without herbicides neither the visible plant nor its root can stand up to the 98°C hot water, whilst the environment and surfaces are protected.



Professional high-pressure cleaning

Cold water high-pressure cleaning

Hot water high-pressure cleaning



Professional high-pressure cleaning

High-pressure cleaning is part of day-to-day business in the municipal area. The WRS 200 also offers diverse options for high-pressure cleaning and maximum mobility and flexibility. 200 bar water pressure and if required up to 98 °C water temperature prove that the performance is also not neglected.

Irrigation with hand lance

Instead of relentlessly tackling weeds, the WRS 200 can also give the water urgently required in the warm season quite differently to flowerbeds or flower islands. Simply using a hand lance and in the low-pressure as well as cold water operation mode.

Removal of chewing gum

The often arduous, time-consuming and costly task of removing annoying chewing gum residue from hard floor coverings such as tar, footpaths or cobblestones is possible and easy with the WRS 200. The chewing gum is removed in just a few seconds and conveniently disposed of in a collection container.

BECAUSE YOU WANT TO ELIMINATE WEEDS PERMANENTLY

It can also be used without herbicides

To protect people and the environment, the use of herbicides for weed control is generally strictly regulated or prohibited in public areas. With our hot water method you have an environmentally friendly and extremely effective alternative. The hot water destroys the weeds by penetrating right to the root and denaturing the plant proteins with the abrupt increase in temperature, whereby the weed is permanently damaged and killed off.

The hotter, the better

Hot water achieves optimum penetration right down to the roots of the plant. The water temperature is decisive here: just below the steam limit is ideal. Kärcher HDS machines provide hot water at consistently high temperatures of up to 98 °C – ideal for weed removal with hot water. And the hot water generation is very energy efficient thanks to maximum burner effectiveness.

No danger, no damage

In contrast to mechanical methods, with hot water there is no risk of damaging or destroying surfaces. The low working pressure (below 1 bar) guarantees gentle treatment and is therefore suitable for every surface. There is also no risk of fire like with flaming.

More flexible than any weed

With the weed removers or the WRS 200 implement for municipal implement carriers, you can eliminate weeds practically everywhere, also in places that are difficult to access where other methods cannot be used. And you benefit from the option of standalone weed removal with the HDS trailers – totally independent of a power supply and water connection.

Annual costs per m²

Costs may vary depending on the application.

Foam	€ 2.20
Weed brush	€ 1.30
Hot water	€ 0.55
Chemicals	€ 0.28

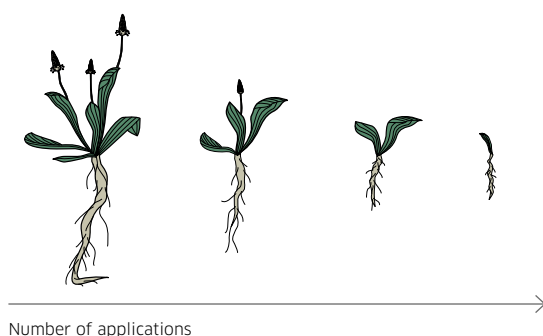


BAD WEEDS GROW TALL? NOT WITH HOT WATER.

The principle of thermal weed control is based on a fundamental biochemical rule: proteins denature from a temperature of roughly 42°C.

This means that the proteins change, break up and can no longer fulfil their functions. The heat required is generated by burning gas or oil and implemented in various ways: directly as a flame or indirectly via thermal radiation or as hot water or steam. Hot water is the only chemical-free method that also reaches the roots.

Even if the roots are not completely destroyed straightaway, the weed is further weakened with each hot water application. If you perform the application regularly from the beginning, regrowth is hampered and the application frequency will decrease considerably already in the second year. As a rule of thumb, 3 to 4 treatments are sufficient in the year.



Owing to its thermal conductivity, hot water achieves the deepest penetration compared with all thermal methods. Sustainable death of the plant and the root are thus guaranteed.

WE LISTEN CAREFULLY TO WHAT YOU HAVE TO SAY IN ORDER TO MAKE OURSELVES BETTER

All our machines are developed, produced and tested so meticulously and precisely: there is nothing like direct feedback from our customers. This allows us to keep on improving – down to the last detail. Details which offer the user comfort, from the logical operating concept through to the driving experience, and allow the user to concentrate fully on his task.

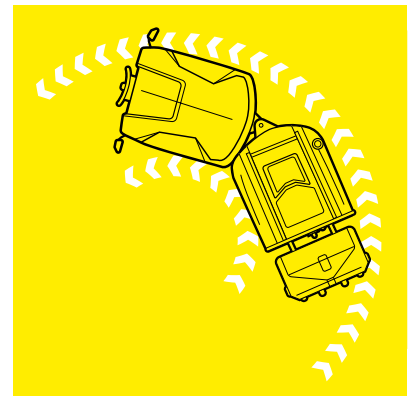


Compact design

Our WRS 200 is so compact that even the rear of the vehicle remains visible in the mirror when cornering and also the entire width of the vehicle is not affected. This not only reduces the risk of getting stuck against house walls or vehicles, but also makes high manoeuvrability possible. Nothing stands in the way of applications in narrow, confined areas, like on footpaths. The WRS 200 in combination with our MIC 42 implement carrier from the 2.5 tonne class is ideal. It also fits very well on the MC 130.

Low vehicle centre of gravity

A prime example of this is how our customers' requirements are incorporated into our products. The WRS 200 is designed so that it is located at the rear of the vehicle and the up to 800 litre water tank sits optimally on the rear trolley and ensures a low vehicle centre of gravity. This enhances the comfort in road traffic and at the same time reduces risk. The WRS is connected to our implement carriers MIC 42, MIC 50, MIC 70 and MC 130 by means of a standard coupling triangle municipal mounting.



Logical operating concept

As simple and as logical as possible so operating errors and risks for the operator can be ruled out in principle. This is evident for example in the clear separation of operation and maintenance of the machine. On the left of the machine are the parts associated with maintenance and service and on the right are the operating elements. Temperature setting, pressure control or the switch for the burner are always accessible from the roadside or the path. The operator does not have to stand on the road to operate the machine. Thanks to our clever Easy Operation system a separate display becomes superfluous.

Automatic decalcifying system

The automatic decalcifying system for protecting the burner can also be traced back to suggestions from our customers. Considering the total cost of ownership concept, an automatic dosing of the cleaning agent is not only more precise and thus safer. It is also more economical overall due to the operator spending less time working. In addition, the more accurate dosing of our cleaning agent PressurePro Machine Protector RM 110 helps extend the service life of the burner.

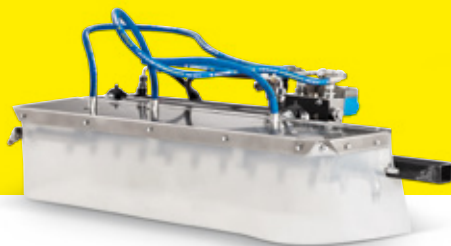
EFFECTIVE AND EFFICIENT. COMFORTABLE AND SAFE.

We offer our decades of know-how and expertise in the development and production of high-pressure pumps and burners as well as high-quality and long-lasting components in our system for mobile hot water weed control.



Quick operational readiness

In less than 2 minutes the 105 kW single burner system heats the water to the maximum work temperature of 98 °C. Despite this enormous output, it works extremely effectively and very economically with fuel consumption of 6 to 8 litres per hour.



Front beam: large areas, by machine

With a working width of 1 metre the front beam that can be operated directly from the cab is perfect for larger areas. Thanks to side nozzles, side pre-sweep function and splash guard, weed control can also be easily performed down to the last detail and right into the kerb.



EASY!Force high-pressure gun

Our EASY!Force high-pressure gun makes work much easier. It uses the recoil force of the high-pressure jet in order to reduce the holding force to practically zero and has a hinge so that the hose remains capable of moving freely without getting tangled.





WR 20: small areas, very precise

Sometimes the spatial situation is so confined that only smaller tools make sense. With the WR 20 you have such a tool to hand that removes weeds at up to 80 m² per hour despite the small working width of 20 centimetres.



WR 50: medium areas, comfortable

Large wheels and a working width of 50 centimetres make comfortable and effective work possible on medium-sized areas. For an area performance of around 150 m² per hour.



WR 100: large areas, manual

Eliminate up to 350 m² of unwanted weeds per hour with the WR 100. With a working width of 1 metre it can be used everywhere where machine work with the implement carrier is not possible.

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