Versatile, economical, professional
Cold Milling Machine W 2000
Always in top shape – high-performance cold milling machine W 2000

For professional contractors requiring a versatile road milling machine with high performance reserves, the tried and tested W 2000 paves the way to an all-round success. This multi-purpose machine in the range of Wirtgen large milling machines of the 2-m class achieves excellent results in particular in the removal of pavement surfaces on a large scale – the state-of-the-art, robust diesel engine providing sufficient power regardless of the job at hand. In addition, the innovative FCS Light ensures that even micro-fine milling jobs are completed to the highest quality standards. At the end of the day, it is the wide range of applications that makes the compact W 2000 such an economically efficient machine.
The Wirtgen Flexible Cutter System Light (FCS Light) greatly enlarges the range of applications of the W 2000.

The working width can optionally be extended to 2.20 m to enable even more applications and make the machine even more efficient.

The LEVEL PRO automatic levelling system guarantees accurate, high-quality milling results.

The experience and expertise gained in the manufacture of over a thousand W 2000 machines and in countless jobs have been utilized to the benefit of this highly mature machine.

Working width of 2.20 m as an option
Compact 2-m milling machine with high performance reserves

At home on construction sites big and small

Its milling width of 2 m and high engine power enable the W 2000 to mill large areas economically at maximum milling depths of up to 320 mm. Our large milling machine stands up to any comparison – regardless of whether the job demands the milling of individual pavement layers or the removal of entire road pavements. Its high milling performance and compact design ensure swift job completion also, however, on small or medium-sized milling sites, such as the rehabilitation of an inner-city road pavement. The W 2000 is also eminently suitable for the low-cost rehabilitation of road surfaces by fine milling. The performance diagram of the W 2000 can be used to roughly estimate the machine’s theoretical milling performance.
Mastering operation of the W 2000 quickly

Easy handling of the W 2000 enables highly productive work right from the start. Clearly arranged controls allow the large milling machine to be operated intuitively while the unambiguous symbols provide clarity and safety. In addition, the proprietary WIDIS 32 on-board information and diagnostic system developed by Wirtgen displays all parameters pertaining to the machine, engine and hydraulic system. Ergonomic standards play an important role, too: anti-vibration mounted treads on the walk-through operator’s platform add to the high degree of operator comfort. Last but not least, the control panels and driver’s seats can be adjusted individually to allow efficient working in both standing and seated position.
LEVEL PRO guarantees top-class milling results

Wirtgen has developed a highly accurate, proprietary levelling system including a software that has been designed specifically for cold milling machines: LEVEL PRO. The overall system includes an operating panel, a controller unit and several sensors. The graphics-enabled LEVEL PRO screen shows key parameters in a clearly legible fashion.

For example, target and actual values for the left and right milling depth and slope parameters are clearly and unambiguously shown on the displays. In addition, the memory feature is very useful to program, store and invoke target values.
Large tactile switches enable the operator to enter or correct parameters quickly and safely.

A great variety of sensors can be integrated into the automatic levelling system as and when required, such as wire-rope, slope and ultrasonic sensors.

The optional multiplex system can be used to perfectly compensate irregularities in longitudinal direction.

The multiplex system analyses the output of three, five or seven sensors on each side of the machine, which is very useful to ensure perfectly level surfaces during fine milling.
Wide range of applications ensures efficiency

Adding even more versatility: the 2.20 m housing

Versatility is what makes a cold milling machine economical! The Flexible Cutter System Light (FCS Light) enables the W 2000 to be equipped with milling drums of various tool spacings. From deep milling using the eco cutter or standard milling drum to fine milling or micro-fine milling – the W 2000 completes a wide range of demanding jobs all on its own. In addition, a housing extension enables the W 2000 to be upgraded for 2.20 m wide milling drums – for an even wider range of applications and greater efficiency. It goes without saying that both side plates are adjustable in height hydraulically. The same applies to the scraper blade: it can be adjusted in height hydraulically in order to load all or part of the milled material, or to leave it behind in the milled cut.

<table>
<thead>
<tr>
<th>Tool Type</th>
<th>Milling Width</th>
<th>Milling Depth</th>
<th>Tool Spacing</th>
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<tbody>
<tr>
<td>ECO cutter</td>
<td>2,000 mm</td>
<td>0 – 320 mm</td>
<td>25 mm</td>
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<tr>
<td>Standard milling drum</td>
<td>2,000 mm</td>
<td>0 – 320 mm</td>
<td>15 mm</td>
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<tr>
<td>Fine milling drum</td>
<td>2,000 mm</td>
<td>0 – 100 mm</td>
<td>8 mm</td>
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The scraper blade can be swung open hydraulically for cutting tool replacement.

Range of milling drums for the W 2000 with a working width of 2 m.
HT11 makes operation of the W 2000 even more economical

Long service life in even the toughest jobs

Toolholders are subject to a high degree of stress and strain. Our patented HT11 quick-change toolholder system has been designed for demanding everyday use on the construction site, extending uptimes and significantly cutting operating costs. Clear marks in favour of the HT11 system are the use of particularly wear-resistant materials, additional tool cooling enabled by an optimized toolholder design, as well as ease of use and maintenance. The integrated water spray system provides highly effective cooling of the cutting tools, thus extending their service life. Additional features, such as the hydraulically opening scraper blade, dual seats at the rear crawler track units and pneumatic cutting tool extractor, ensure quick and easy replacement of cutting tools.
Flexible, high-performance loading of milled material

The conveyor in folding design simplifies transport.

The conveyor keeps up with any milling speed.

Fast, efficient transport of the milled material away from the job site makes a significant contribution to ensuring smooth progress of the milling operation. The loading system of the W 2000 effortlessly copes with transport requirements even when fully utilizing its enormous milling capacity: the conveyor’s wide slewing angles enable one truck to wait on the side while another, driving alongside the machine, is still being loaded. The great discharge height and variable belt speed enable large trucks to be loaded to full capacity. The operator’s platform provides a good view of the discharge conveyor and the truck driving in front.
The 800 mm wide conveyor belt ensures swift loading even when large amounts of material need to be conveyed.

The manually adjustable discharge conveyor belt speed ensures a flexible discharge pattern, thus permitting articulated trucks to be loaded to full capacity.

The hydraulically folding discharge conveyor reduces the transport length of the entire machine.

The gradation control beam is positioned right in front of the milling drum, preventing the pavement from breaking into slabs and protecting the belt against premature wear and tear.
Optimum traction regardless of the working situation

The W 2000 – always on track

Working independently of the level selected, the parallel sliding block guide ensures precise steering.

Crab steering enables the machine to precisely approach existing cuts.

Tremendous manoeuvrability

Whether manoeuvring on difficult ground, turning in one go, easy loading or approaching existing cuts in crab steering mode: the excellent driving properties of the W 2000 result in a lucrative time-saving potential. This favourable behaviour is ensured primarily by the smooth, hydraulic all-track steering system with manually selectable, hydraulic flow divider that acts as a differential lock and guarantees uniform traction in particular in adverse conditions. The high-lift, individually height-adjustable crawler track units result in ample ground clearance. In addition, all four track units provide large steering angles, which allow the compact W 2000 to perform an amazingly small turning circle.
Intelligent maintenance pays off

Doing a quick check of the W 2000

Even though the W 2000 has been designed for long working days, a minimum amount of checking and maintenance needs to be done. This is not a big deal at all, however, as all important components are readily accessible without using tools. The wide-opening service panels provide full access to carry out all necessary maintenance and servicing procedures. In addition, lubrication and service points have been grouped together intelligently in just a few places of the machine, and visual inspections are performed quickly from the operator’s platform or from the ground. Ample storage space is available for tools, wearing parts or cutting tools. The overall operational availability of the W 2000 is increased significantly on account of this intelligent maintenance concept.
High-tech components and state-of-the-art production make for top quality

Over a thousand tried-and-tested W 2000 large milling machines have left the Wirtgen plant to date and have demonstrated their skills on countless job sites around the globe. This wealth of experience is continuously utilized to the benefit of the machine. In the process of selecting components for the W 2000, we additionally consider only those suppliers who meet the highest quality criteria in terms of the durability, failure safety and strength of their products. A prime example of this is the state-of-the-art, economical diesel engine. The fully electronic machine control system ensures that it always works in the optimal performance and torque ranges. This minimizes fuel consumption and directly results in low operating cost.

Components from manufacturers of good reputation

The heavy-duty diesel engine offers an ideal combination of power, torque and fuel consumption.

“Made in Germany” – electrical cabinet and hydraulic system.

Ideal characteristic curve: the engine output remains constant even at extreme engine lugging.

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<tr>
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Highly qualified German engineers and technicians are in charge of the engineering and design of the W 2000 machine.

The machines are manufactured in state-of-the-art production facilities by highly qualified expert staff and in mature production processes.

The global Wirtgen service network enables service technicians to be on location quickly, however remote the construction site.

The high-quality original spare parts from Wirtgen can also be supplied worldwide and at extremely short notice.