Versatile high-performance milling machine for professional applications

Cold Milling Machine W 210/W 210i
By the pros for the pros

Maximum flexibility

State-of-the-art construction machines need to cope with ever higher demands. Contractors expect high performance levels and economic efficiency without wanting to compromise on maximum flexibility.

The W 210/W 210i perfectly meets these requirements: milling performance and versatility in application are tremendous, and the intelligent WIDRIVE machine management system cuts operating costs. Additional highlights of the W 210/W 210i include the PTS parallel alignment system, ISC track control, FCS Light quick-change system for milling drums, three adjustable milling drum speeds and, unprecedented in the cold milling industry, the innovative Dual Engine Concept. The drive design of the W 210/W 210i featuring two combustion engines offers maximum economic efficiency regardless of the working situation. The engines of the W 210 comply with the specifications of exhaust emission standards EC Stage 3a/US Tier 3; the engines of the W 210i comply with those of EC Stage 4/US Tier 4f.

The innovative W 210/W 210i is a role model in performance and economy.

Ergonomically optimized design and ease of operation prevent fatigue during work.
High productivity tailored to accurate fit
The lightweight W 210/W 210i is considered a role model in performance capacity – and an ideal candidate in a broad range of applications. While its high engine power caters to all needs on large milling sites, its high milling performance, outstanding manoeuvrability and compact design ensure swift and professional completion also on small to medium-sized construction projects. The large milling machine rehabilitates all kinds of large areas with maximum efficiency – from the milling of surface courses to the complete removal of individual motorway lanes at full depth. The W 210/W 210i lets performance speak for itself even when space is limited, for example, in the area of a road junction or on urban milling sites. Regardless of whether a milling drum assembly with a working width of 1.5 m, 2.0 m or 2.2 m is used, the unrivalled milling depth enables the removal of complete pavements in a single pass.
Cut cost – boost revenue
Our design engineers know how to fully utilize the potential a cold milling machine has to offer. They have succeeded in presenting a true innovation that enables ideal milling outputs to be achieved not only under frequently varying and highly demanding conditions but also in a wide variety of different applications.

A selector switch on the operator’s platform serves to set three different speed levels of the engine and/or the milling drum. The W 210/W 210i usually runs at the medium milling drum speed, whereas the high speed is selected for large-scale fine milling jobs. The low speed is chosen to achieve maximum milling performance levels at reduced fuel consumption rates per cubic metre of milled material and low cutting tool wear and tear. To put it in a nutshell: minimum cost and maximum productivity – made by Wirtgen.
Gaining control quickly

A small number of buttons and switches

Climb the operator’s platform, and here goes! It takes no more than a short training period to be able to operate the W 210/W 210i just as intuitively as a milling pro. True to the saying that “less is more”, the operator needs to familiarize himself with a small number of controls only as the WIDRIVE machine management system will take care of many functions fully automatically. The clearly arranged controls are labelled in a language-neutral fashion, enable perfect handling and help to prevent fatigue during work. In addition, the clearly structured colour control screen keeps the operator informed of important machine and operation parameters.

Innovative, user-friendly diagnostic tools enable the operator to easily diagnose the condition of the machine. The large number of features provided includes continuous logging of events during the entire milling process.
Giving operators the full picture – at all times

Overview of cameras:

1. Camera at the rear
2. Camera at end of conveyor
3. Camera at scraper
4. Camera front, centre
5. Camera front, right
6. Camera front, left
From his platform, the machine operator is always up to date on what is happening behind or underneath the W 210/W 210i, or on the performance levels of the cold milling machine on its current job. He can view up to six different camera settings of different work areas on the control screen, and additionally has an overview of major parameters related to the current milling job. The control system calculates job parameters automatically based on the input of material density and milling width. It displays information such as the number of trucks loaded, weight and volume of the material milled, and size of the milled area. Operation is assisted further by displaying the milling performance, truck loading counter or consumption indicator.

The multifunctional control screen can be switched to camera mode to monitor important work processes. When using six cameras, an additional camera screen is installed to allow the simultaneous display of two different camera views.

Two or six high-resolution colour cameras can be installed in accordance with customer specifications.

Optional installation of an intelligent data converter enables defined machine parameters to be read out from the machine’s control system coded in accordance with the standardized WIFMS norm.
Milling machine operators want to operate their machines at maximum performance levels, yet come down from the operator’s platform at the end of the working day feeling well and fit. The W 210/W 210i combines both requirements as it offers a truly perfect ergonomic design. One of the main features is the slender wasp waist of the W 210/W 210i which enables an unobstructed view of the milling edge, track units and protective side plates. It is complemented by individually adjustable dual control panels and height-adjustable driver’s seats. A swivel arm enables the seats to be positioned between the control panel and guard rail. All of these features combine into a perfect panorama design, and milling in both upright and seated position can proceed with the greatest ease.

The W 210/W 210i negotiates obstacles at the height of the operator’s platform by moving the protective canopy far to the left or the right.

Perfect visibility in a comfortable working posture

Fully focused on the milling job
Perfect visibility from the anti-vibration mounted operator’s platform; the railing is movable to the outside.

Working in upright or seated position, movable ...

... control panels, individually adjustable comfort seats.
LEVEL PRO – state-of-the-art levelling technology

Electronic slope sensor for the milling of predefined cross slopes.

Crew members on the ground can enter adjusted parameters in LEVEL PRO.
Precise measurement of the milling depth by means of displacement sensors installed in the hydraulic cylinders.

Hydraulic milling depth sensors capture the level at the side plates and in front of the milling drum.

Wirtgen has developed an ultra-precise proprietary levelling system which includes a software designed specifically for cold milling machines – LEVEL PRO. The overall system includes the clearly structured LEVEL PRO panel, a controller and several sensors. A multitude of different sensors can be integrated into the automatic levelling system, such as hydraulic milling depth, cross slope or ultrasonic sensors. The graphics-enabled LEVEL PRO panel provides a clear readout of key parameters. Set and actual values for the left and right milling depth as well as slope parameters are clearly shown on the screens as work progresses. An additionally computed reference value enables convenient control of the actual milling depth on both sides. In addition, the memory feature is very useful to program, store and retrieve set values.

Precise milling results
W 210 – state-of-the-art dual engine concept

For emission standards EC Stage 3a/US Tier 3

The engine technology used in the W 210 cold milling machine complies with the emission standards of EC Stage 3a/US Tier 3 or lower.

The W 210 is equipped with two independently operating, powerful and economical ECO engines, the second engine being switched on or off as needed in the working situation.

The fully electronic WIDRIVE machine management system enables both of the W 210's engines to always work in the ideal performance and torque ranges, at extremely low fuel consumption rates and low operating costs.
W 210i – optimizing environmental protection

For emission standards EC Stage 4/US Tier 4f

The W 210i features state-of-the-art engine technology for extremely low environmental emission levels, complying with the stringent specifications of exhaust emission standards EC Stage 3b/US Tier 4i.

To ensure effective exhaust gas purification, both engines of the W 210i are equipped with a two-way catalytic converter and SCR catalytic converter each.

The WIDRIVE machine management system guarantees consistently high performance levels even when working at full load. Operating costs of the W 210i are reduced further by means of intelligent diesel engine control.
State-of-the-art Dual Engine Concept

It takes two to boost economic efficiency

Wirtgen is the first cold milling machine manufacturer worldwide to offer uncompromising performance characteristics and maximum efficiency by connecting two diesel engines by means of a multiple V-belt. Taken together, the two engines provide tremendous power, enabling the W 210/W 210i to achieve unmatched performance levels. Engine 1 only is in operation in those conditions where the performance level required to achieve the specified results is low. While engine 1 drives all functional groups, engine 2 is switched on automatically or at the push of a button for full milling power.

This offers significant advantages: switching off engine 2 results in reduced noise emissions, the operator is exposed to fewer vibrations, and lower exhaust gas emission levels cause less harm to the environment. Needless to say that diesel fuel consumption rates are also lowered significantly.
PTS – always parallel to the road surface

Parallel machine alignment

It takes quite a lot to throw the W 210/W 210i off balance. Its stability is based on PTS: the intelligent automatic system aligns the machine parallel to the road surface in a dynamic process without requiring major manual adjustments by the operator. The front and rear track systems are lowered evenly and in parallel to each other. In addition, the four-fold full-floating axle that forms part of the PTS system quickly and reliably compensates for any irregularities transverse to the direction of travel.

Surface irregularities are compensated for by the machine’s four hydraulically interlinked lifting columns. The effective stability control of the W 210/W 210i pays for itself – it ensures precise maintenance of the milling depth and speeds up the entire work process without the operator having to intervene manually.

If one of the track units hits an obstacle (such as an elevated milling edge) during the milling operation, the other three units contribute to compensating for the height offset: this design ensures that height compensation occurs much more rapidly.
ISC – gaining ground quickly the intelligent way

All four track units feature large steering angles permitting surprisingly small turning circles.

Crab steering enables the machine to precisely approach existing milled cuts.

Full traction and outstanding manoeuvrability

Work on milling sites is often made difficult by rough and uneven terrain. The magic word is – traction. Optimal, uniform traction is ensured by the intelligent ISC track control system: electronic traction control minimizes the slip of individual track units even in difficult milling situations. In addition, ISC keeps the machine’s advance rate within the optimal engine load range and electronically aligns the cornering speeds of the inner and outer track units, thus minimizing track pad wear.

The steering angles of the front and rear axles are coordinated, and the rear axle is tracked automatically for perfect milling results. But the W 210/W 210i has even more to offer: small turning radii, selectable steering modes and height-adjustable track units offer excellent driving properties.
High milling power comes from cutting-edge technology

Designed with productivity in mind

Cutting technology is a science in its own right that we from Wirtgen have mastered to perfection – from the use of high-quality, highly wear-resistant materials to extensive manufacturing expertise and highly precise, application-specific positioning of the cutting tools. The broad range of different types of milling drums enables an equally broad range of applications. Wear and tear has been minimized in favour of extended durability so that heavy-duty milling drums from Wirtgen will ultimately always prevail in tough everyday conditions on the job site.

The toolholders are arranged in an ideal pattern to ensure excellent milling performance, a precise milling texture and low vibration levels during operation. Special edge segments or edge tools ensure clean milling edges, in particular when driving through bends. The ejectors can be turned about 180° and can thus be used twice as wear occurs predominantly in the upper area.
Wirtgen milling drums are the right choice both for milling at full working depth …

… and for the removal of surface courses.
Boosting economic efficiency with the HT22 quick-change toolholder system

Long service life in even the toughest jobs

Our heavy-duty HT22 quick-change toolholder system has been designed for tough job site conditions and minimizes breaks in operation.

This is ensured by the use of particularly wear-resistant materials, perfect tool rotation and easy tool replacement – to name just a few of its many advantages. In addition, tool replacement can be facilitated by means of a hydraulic drum turning device and an additional seat mounted between the rear track units.

Cutting tools can be replaced using standard manual or pneumatic tools. Tool replacement is optimized by using an electro-hydraulic tool extractor which extracts cutting tools effortlessly with the engine switched off.

The electrohydraulically operated cutting tool extractor helps to improve the machine’s overall productivity.

The HT22 quick-change toolholder system in detail.
Milling drum assemblies
1.5 m, 2.0 m and 2.2 m wide

The W 210 / W 210 i comes with a 2.0-m wide milling drum assembly in the standard package; 1.5-m or 2.2-m wide assemblies are available as equipment options. At a working width of 2.2 m, a 4.35 m wide road surface (first lane and median strip) is milled off in two passes while a working width of 2.0 m would require three passes.

The 2.0-m and 2.2-m milling drum assemblies are suitable for use with the FCS Light system so that milling drums of equal width can be exchanged without difficulty.
FCS Light increases flexibility and machine utilization

FCS Light for milling widths of 2.0 m and 2.2 m

High levels of utilization are a key factor in the profitable operation of large cold milling machines. The W 210/W 210i fully meets this requirement when equipped with the FCS Light Flexible Cutter System: milling drums of equal working widths – but with different tool spacings – can be exchanged with only little effort. The system’s real-life design and supporting tools, such as a special mounting carriage, allow the drums to be exchanged in an extremely short period of time.

In that way, a single cold milling machine can remove wheel ruts on a country road, prepare a surface for the application of a thin pavement layer by means of fine milling, or remove the coating from an asphalt or concrete pavement when equipped with a micro-fine milling drum. FCS Light is available for working widths of 2 m and 2.2 m.
The ECO cutters equipped with a reduced number of point-attack tools ensure the highest possible area performance.

Standard milling drums are ideally suited to the removal of one or more pavement layers, ensuring a good interlock between the milled surface and the new pavement.

Fine milling drums create finely textured surfaces ideally suited as a base for the application of thin pavement layers.

Micro-fine milling drums are used to roughen road pavements and to improve their evenness and skid resistance.
Flexible milling drum assembly

The milling drum assembly of the W 210/W 210i offers an extremely high degree of flexibility. The hydraulically height-adjustable protective side plates left and right permit precise milling along road fixtures. The side plates on the right side of the machine can be raised by 450 mm. Milling flush to kerb is thus possible also at large working depths.

The scraper blade is raised and lowered hydraulically in order to load all or part of the milled material, or to leave it behind in the milled cut. To prevent collisions during manoeuvring, the gradation control beam, scraper blade and side plates are raised automatically together with the lifting columns when in transport mode. To ensure optimal tool cooling, pressure in the two separate water spray bars is adjusted in accordance with the machine’s performance, and the amount of water is continuously variable. This feature increases tool durability and reduces the generation of dust.

An intelligently designed unit

Dimensions in mm:

The right-hand side plate can be raised by a total of 450 mm.
Highly efficient mechanical milling drum drive

Maximum efficiency

The power of the W 210/W 210i large milling machine is provided by a mechanical milling drum drive offering an exceptionally high degree of efficiency.

An automatic belt tensioner ensures uniform power transmission, while the power belts absorb peak loads and reduce the load exerted on the various components of the drive system.

Additional marks in favour of the tried-and-tested drive design are reduced fuel consumption rates, high wear resistance and ease of maintenance.
Automatic lowering of the milling drum into working position

Start milling without losing time

The innovative automatic system used to initiate the milling process allows the machine to mill at the maximum depth of 330 mm right from the very first metre.

When the automatic levelling system is engaged, the lifting columns and rotating milling drum are lowered automatically at maximum speed.

Once the side plates reach the ground, the lifting columns continue lowering in slow mode; the lowering rate is adjusted further in the milled cut if required.

The milling machine retains its parallel alignment – no time is wasted on complex manual lowering operations front and rear.

The cold milling machine retains its parallel alignment.

Front and rear track systems are lowered quickly to the set milling depth.
Vacuum Cutting System offers a pleasant working environment

When developing the W 210/W 210i, particular attention was paid to the health and well-being of the operating crew. For this reason, the cold milling machine can be fitted with the Vacuum Cutting System to extract fine material particles. Its principle is simple: by creating a negative pressure in the drum housing, the mix of air and water vapour is evacuated and then fed back into the flow of milled material transported on the conveyor via a hose system. It goes without saying that better air quality and visibility in the working environment of the machine operator and ground crew members significantly improve the working conditions and boost staff performance. Reduced soiling of components, such as the engine or air filter, results in savings in the replacement of spare parts.

Free view of the milling edge

The centrifugal fan is unaffected by contamination and can be adjusted in speed.

VCS ensures a perfect view of the milling edge regardless of the time of day or night.
Making quick work of removing the milled material

High-performance conveyor

Prompt removal of the milled material from site significantly contributes to the smooth completion of large milling projects. Accordingly, as many trucks as possible need to be loaded within the shortest possible time. Our W 210/W 210i large milling machine has no problem at all with mastering this job, as its conveyor system easily copes with clearing many tonnes of milled material due to extremely high conveyor capacity and drive power.

The conveyor system is equipped with automatic, continuously adjustable belt speed control. The belt speed can also be adjusted manually to achieve perfect distribution of the milled material on the truck by setting a variable discharge range. In addition, large slewing angles enable even challenging loading procedures to be effected smoothly in narrow bends or in those sections where space is limited.
Slewing angles of 60° to both sides ensure flexibility in material loading.

High belt speed
Low belt speed

Continuously adjustable belt speed and discharge range.

For quiet work at night: clearly visible “Stop” and “Go” instructions given to the truck driver.
Intelligent maintenance pays off
Enabling the operator to complete maintenance procedures quickly and reliably is a major criterion for ensuring maximum availability of a machine on the construction site. The engine compartment of the W 210/W 210i opens at the push of a button, and the service panels can be slewed wide open. The few points of maintenance are arranged in a clear pattern and offer easy access from the ground or from the operator's platform. Maintenance procedures on the filters, engine or hydraulic system are completed in a few simple steps.

As a result, the W 210/W 210i is always in top shape and prepared to deliver top milling results. And the operator is happy, too.
Ready for operation – whatever the time of day

Good lighting for perfect operation at night

Road construction projects are often carried out under tremendous time pressure, making it impossible for milling contractors to care about adverse weather conditions, darkness or even night time. This is where the generous lighting equipment of our versatile large milling machine comes into play. Numerous adjustable working lights are attached quickly and easily to fully illuminate the main working areas of the W 210/W 210i.

In addition, lighting balloons are available to light up extensive parts of the construction site. At the end of the day, the first-class lighting system is a perfect addition when it comes to extending the working capacity of the W 210/W 210i.
Machine transport without detours

Transport of the W 210/W 210i is easy, making sure that the machine is ready for operation again quickly on the next job location. The conveyor in folding design reduces the machine’s overall transport length and permits the use of smaller transport vehicles. The canopy can be lowered hydraulically for transport. Removable supplementary weights enable transport of the W 210/W 210i on vehicles with a low maximum permissible payload.

Strong loading and lashing lugs enable the machine to be safely lashed down on a trailer or loaded by crane.

Our range of optional equipment features includes conveyor support legs for machine transport on a flatbed truck.

Ready for operation quickly
Setting the standard in active environmental protection

The W 210/W 210i is leading the way

WIDRIVE is the key to the high degree of environmental compatibility: the intelligent machine management system not only achieves a significant reduction in diesel fuel consumption but also reduces exhaust gas emissions, noise levels and vibrations from the engine. Different engine or milling drum speeds, which can be selected in line with the milling job, ensure exceptionally low fuel consumption rates. This is complemented by the efficient Dual Engine Concept as the intelligent interplay of the two economical diesel engines increases the environmental friendliness of the W 210/W 210i even further. The engines of the W 210 comply with the specifications of exhaust emission standards EC Stage 3a/US Tier 3; the engines of the W 210i comply with those of EC Stage 4/US Tier 4f. In addition, the VCS extraction system reduces dust emissions, efficient soundproofing of the engine compartment and anti-vibration engine support reduce noise levels, and the stoplight system replaces the loud horn during night operations.
# Technical specification

Dimensions in mm

<table>
<thead>
<tr>
<th>Milling width</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
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</thead>
<tbody>
<tr>
<td>1,500</td>
<td>2,500</td>
<td>15,640</td>
<td>14,770</td>
<td>12,810</td>
<td>8,640</td>
<td>600</td>
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<td>2,000</td>
<td>2,500</td>
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<td>14,930</td>
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<td>8,800</td>
<td>760</td>
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<tr>
<td>2,200</td>
<td>2,700</td>
<td></td>
<td></td>
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</tr>
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</table>

Canopy in transport position

Machine centre of gravity*

* = Based on operating weight, CE with conveyor folded out
Milling radius, milling depth 150 mm
Dimensions in mm

Milling width 2,000: \( R_{\text{min}} = 13,500 \)

Milling width 2,200: \( R_{\text{min}} = 7,900 \)

Milling width 1,500: \( R_{\text{min}} = 13,500 \)

Milling width 2,000: \( R_{\text{min}} = 2,150 \)

Milling width 2,200: \( R_{\text{min}} = 1,950 \)

Milling width 1,500: \( R_{\text{min}} = 2,150 \)
Equipment features

Standard equipment features

Basic machine
- Water-cooled engine
- Water cooler with temperature-governed fan speed
- Machine frame in dual "wasp waist" design
- Hydraulically opening engine cowling with highly effective soundproofing
- Air compressor system
- Battery-operated hydraulic module for hydraulic cylinder functions and for emergency functions
- Automatically engaging high-pressure water system, 18 bar, 67 l/min
- Standard painting in Wirtgen white with orange stripes

Milling drum assembly
- Milling drum housing for milling width 2,000 mm, excluding FCS features
- Three electrically switchable milling drum speeds 127 l/min - 109 l/min - 97 l/min
- Hydraulic gradation control beam with conveyor lift function
- Hydraulically movable and adjustable scarper blade with automatic locking function
- Hydraulically lifting side plates left and right; working stroke right 450 mm, working stroke left 330 mm
- Separately engageable water spray bar in the milling drum assembly

Milling drums
- Milling drum, milling width 2,000 mm, HT22 quick-change toolholder system, tool spacing 15 mm
- Full set of point-attack cutting tools
- Multiple-use ejector system

Loading of the milled material
- Discharge conveyor system with adjustable conveying speed
- Discharge conveyor slewing angle 60° to the left, 60° to the right
- Water spray system at primary conveyor

Machine and levelling control
- Colour control screen displaying the milling depth and all important operation parameters
- Multifunctional truck loading indicator integrated in control screen
- Comprehensive diagnostic system included in control screen
- Automatically engaging milling power control unit
- Four exterior control panels for operation by ground staff
- Digital electric height indicator
- Full pre-installation for up to 7 levelling sensors per machine side

Operator’s platform
- Convenient access to operator’s platform including stand-up seat, left and right
- Fully anti-vibration mounted operator's platform
- Convenient, individually adjustable control panel
- Robust anti-vandalism control panel
- Mirror set comprising two mirrors at the front, one mirror at the centre, one mirror at the rear of the machine

Chassis and height adjustment
- PTS – automatic alignment of machine parallel to the pavement surface
- ISC – intelligent track speed control including hydraulic four-track drive
- Four-fold full-floating axle for high machine stability
- Four-track steering with selectable steering modes
- Extremely wear-resistant, two-piece EPS polyurethane track pads

Miscellaneous
- Lighting package including 11 halogen working lights
- Four LED lights at the milling drum assembly
- “Welcome” and “Go home” lights feature including LED lighting at the operator’s access and platform
- Comprehensive toolkit in lockable toolbox
- Large, lockable storage compartments for cutting tool containers
- Comprehensive safety package including 6 emergency stop switches
- European design type certification, GS mark (Geprüfte Sicherheit = Tested Safety) and CE conformity
- Standard warranty of 12 months or 1,000 engine operating hours
- Machine commissioning by qualified personnel
- Comprehensive operating manual and machine documentation
Optional equipment features

**Basic machine**
- Special painting, one or several colours
- Electrical preheating of fuel filter

**Milling drum assembly**
- Milling drum housing for milling width 1,500 mm
- Milling drum housing for milling width 2,200 mm
- Milling drum housing for milling width 1,200 mm, FCS Light
- Milling drum housing for milling width 2,000 mm, FCS Light
- Drum turning device for cutting tool replacement
  - Max. two pneumatically operated cutting tool drivers and extractors
  - Max. 2 electrohydraulically operated cutting tool extractors
- Additional fold-out seats at the rear track units for cutting tool replacement

**Milling drums**
- Milling drum, milling width 2,200 mm, HT22 quick-change toolholder system, tool spacing 15 mm
- Milling drum, milling width 600 mm, HT22 quick-change toolholder system, tool spacing 15 mm, FCS Light
- Milling drum, milling width 900 mm, HT22 quick-change toolholder system, tool spacing 15 mm, FCS Light
- Milling drum, milling width 1,200 mm, HT22 quick-change toolholder system, tool spacing 15 mm, FCS Light
- Milling drum, milling width 2,000 mm, HT22 quick-change toolholder system, tool spacing 15 mm, FCS Light
- Milling drum, milling width 2,200 mm, HT22 quick-change toolholder system, tool spacing 15 mm, FCS Light
- Milling drum, milling width 2,000 mm, HT22 quick-change toolholder system, tool spacing 8 mm, FCS Light
- Milling drum, milling width 2,200 mm, HT22 quick-change toolholder system, tool spacing 8 mm, FCS Light
- Milling drum, milling width 2,000 mm, HT5 toolholder system, tool spacing 25 mm, FCS Light
- Milling drum, milling width 2,200 mm, HT5 toolholder system, tool spacing 25 mm, FCS Light
- Milling drum, milling width 2,000 mm, HT22 quick-change toolholder system, tool spacing 18 mm, FCS Light
- Milling drum, milling width 2,200 mm, HT22 quick-change toolholder system, tool spacing 18 mm, FCS Light
- Mounting carriage for milling drums

**Loading of the milled material**
- Discharge conveyor in hydraulic folding design
  - VCS – Vacuum Cutting System
- Conveyor support legs for machine transport

**Machine and levelling control**
- LEVEL PRO automatic levelling system including sensors installed in the side plate hydraulic cylinders
  - Max. two additional LEVEL PRO control panels
- Measurement of the actual milling depth via a sensor package installed at the scraper and readout on the LEVEL PRO and machine screens
- RAPID SLOPE sensor for additional cross slope levelling
- Hydraulic cylinder sensor capturing the milling depth in front of the milling drum, right
- Hydraulic cylinder sensor capturing the milling depth in front of the milling drum, left and right
- Laser sensor including levelling arm movable laterally by 4 m hydraulically including laser transmitter and laser receiver
- SONIC SKI sensor for additional ultrasonic level scanning
- Multiplex sensors with two additional ultrasonic sensors including bracket and cable in 3-fold Multiplex system package, right
- Multiplex sensors with two additional ultrasonic sensors including bracket and cable in 3-fold Multiplex system package, left and right
- Pre-installation of laser sensor including laser signal receiver but excluding laser signal transmitter
  - Pre-installation for 3D GPS levelling including receiver mast

**Operator’s platform**
- Hydraulically lowering protective canopy
  - Operator’s platform including individually adjustable, comfortable driver’s seats, left and right
  - Operator’s platform including cabin as part of the “Operator Comfort System”
- Hot-air blower heating in the footwell area of the operator’s platform, left and right
- Screen system including two cameras
- Screen system including four additional cameras and additional screen
- Full set of mirrors, partly with electric fold-in function, including stop-and-go indicator

**Miscellaneous**
- WITOS FleetView telematics system including 3-year licence
- Hydraulically operated electrical generator with a capacity of 4 kW at 220 volts
- Hydraulically operated electrical generator with a capacity of 4 kW at 110 volts
- Lighting balloon, 2 kW, operated at 220 volts
- Lighting balloon, 2 kW, operated at 110 volts
- Electrically operated diesel tank filling pump
- Hydraulically operated water tank filling pump
- High-performance lighting package including six additional LED lights
- Bolt-on supplementary weight, 1,700 kg
- Large storage compartment in lieu of standard storage compartment at the rear of the machine
- Hydraulically operated high-pressure water cleaner, 150 bar, 15 l/min
## Technical specification

<table>
<thead>
<tr>
<th>Milling drum</th>
<th>Cold milling machine W 210 and W 210i</th>
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<tbody>
<tr>
<td>Milling width</td>
<td>Optional milling width of 1,500 mm</td>
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<tr>
<td>Milling width</td>
<td>1,500 mm</td>
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<td>Milling depth*</td>
<td>0 to 310 mm</td>
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<td>Tool spacing</td>
<td>15 mm</td>
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<tr>
<td>Number of cutting tools</td>
<td>136</td>
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<td>Drum diameter with tools</td>
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### Engine

<table>
<thead>
<tr>
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<th>W 210</th>
<th>W 210i</th>
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<tbody>
<tr>
<td>Engine manufacturer</td>
<td>CUMMINS</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>QSL 8.9 + QSC 8.3</td>
<td>QSL 9 + QSL 9</td>
</tr>
<tr>
<td>Cooling</td>
<td>Water</td>
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<tr>
<td>Number of cylinders</td>
<td>6 + 6</td>
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<tr>
<td>Rated power at 2,100 min(^{-1})</td>
<td>470 kW / 630 HP / 639 PS</td>
<td>514 kW / 690 HP / 699 PS</td>
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<tr>
<td>Maximum power at 1,900 min(^{-1})</td>
<td>500 kW / 671 HP / 680 PS</td>
<td>537 kW / 720 HP / 730 PS</td>
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<td>Operating power at 1,600 min(^{-1})</td>
<td>469 kW / 628 HP / 638 PS</td>
<td>494 kW / 663 HP / 672 PS</td>
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<td>Displacement</td>
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<td>18 l</td>
</tr>
<tr>
<td>Emission standards</td>
<td>EC Stage 3a / US Tier 3</td>
<td>EC Stage 4 / US Tier 4f</td>
</tr>
<tr>
<td>Electrical system</td>
<td>24 V</td>
<td></td>
</tr>
</tbody>
</table>

### Tank capacities

<table>
<thead>
<tr>
<th></th>
<th>W 210</th>
<th>W 210i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>1,220 l</td>
<td>1,120 l</td>
</tr>
<tr>
<td>AdBlue® / DEF tank</td>
<td>–</td>
<td>100 l</td>
</tr>
<tr>
<td>Hydraulic oil tank</td>
<td></td>
<td>200 l</td>
</tr>
<tr>
<td>Water tank</td>
<td>3,350 l</td>
<td></td>
</tr>
</tbody>
</table>

### Driving properties

| Max. travel and milling speed | 0 to 85 m/min (5 km/h) |
| Track units                 | 1,730 x 300 x 610 mm |

### Loading of the milled material

| Belt width of primary conveyor | 850 mm |
| Belt width of discharge conveyor | 850 mm |
| Theoretical capacity of discharge conveyor | 375 m\(^3\)/h |

### Shipping dimensions

<table>
<thead>
<tr>
<th></th>
<th>W 210</th>
<th>W 210i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machine, optional milling width of 1,500 mm (L x W x H)</td>
<td>8,640 mm x 2,500 x 3,000 mm</td>
<td>8,800 mm x 2,500 x 3,000 mm</td>
</tr>
<tr>
<td>Machine, standard milling width of 2,000 mm (L x W x H)</td>
<td>8,640 mm x 2,500 x 3,000 mm</td>
<td>8,800 mm x 2,500 x 3,000 mm</td>
</tr>
<tr>
<td>Machine, optional milling width of 2,200 mm (L x W x H)</td>
<td>8,640 mm x 2,700 x 3,000 mm</td>
<td>8,800 mm x 2,700 x 3,000 mm</td>
</tr>
<tr>
<td>Discharge conveyor (L x W x H)</td>
<td>7,900 x 1,450 x 1,500 mm</td>
<td></td>
</tr>
</tbody>
</table>

* = The maximum milling depth may deviate from the value indicated due to tolerances and wear.
## Technical specification

<table>
<thead>
<tr>
<th>Machine weights</th>
<th>W 210</th>
<th>W 210i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty weight of machine excluding tank contents</td>
<td>26,600 kg</td>
<td>26,850 kg</td>
</tr>
<tr>
<td>Operating weight, CE *</td>
<td>28,900 kg</td>
<td>29,150 kg</td>
</tr>
<tr>
<td>Maximum operating weight (full tanks, full range of equipment), milling width 2,200 mm</td>
<td>36,050 kg</td>
<td>36,300 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Weights of tank contents</th>
<th>W 210</th>
<th>W 210i</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water tank filling in kg</td>
<td>3,350 kg</td>
<td>3,350 kg</td>
</tr>
<tr>
<td>Diesel tank filling in kg (0.83 kg/l)</td>
<td>1,000 kg</td>
<td>930 kg</td>
</tr>
<tr>
<td>AdBlue®/DEF tank filling in kg (1.1 kg/l)</td>
<td>–</td>
<td>100 kg</td>
</tr>
</tbody>
</table>

### Optional equipment features increasing/reducing empty weight

**Driver and tools**
- Driver: 75 kg
- Weight of 5 cutting tool containers: 125 kg
- On-board tools: 30 kg

**Optional milling drum assemblies in lieu of standard**
- Milling drum housing, milling width 1,500 mm: 100 kg
- Milling drum housing, milling width 2,200 mm: 200 kg
- Milling drum housing, milling width 2,000 mm, FCS Light: 650 kg
- Milling drum housing, milling width 2,200 mm, FCS Light: 900 kg

**Optional milling drums in lieu of standard**
- Milling drum, milling width 1,500 mm, tool spacing 15 mm: -460 kg
- Milling drum, milling width 2,200 mm, tool spacing 15 mm: 180 kg

### Optional FCS milling drums in lieu of standard
- Milling drum, milling width 2,000 mm, tool spacing 6x2 mm, FCS Light: 960 kg
- Milling drum, milling width 2,000 mm, tool spacing 8 mm, FCS Light: 660 kg
- Milling drum, milling width 2,000 mm, tool spacing 15 mm, FCS Light: -150 kg
- Milling drum, milling width 2,200 mm, tool spacing 18 mm, FCS Light: -260 kg
- Milling drum, milling width 2,200 mm, tool spacing 6x2 mm, FCS Light: 1,060 kg
- Milling drum, milling width 2,200 mm, tool spacing 8 mm, FCS Light: 900 kg
- Milling drum, milling width 2,200 mm, tool spacing 15 mm, FCS Light: 0 kg
- Milling drum, milling width 2,200 mm, tool spacing 18 mm, FCS Light: -30 kg

**Optional additional equipment**
- Operator’s platform including comfortable seats in lieu of standard: 250 kg
- Canopy in lieu of standard: 280 kg
- Cabin in lieu of standard: 600 kg
- Folding conveyor in lieu of standard: 520 kg
- VCS – Vacuum Cutting System: 150 kg
- Supplementary weight 1 for flexible use: 1,700 kg

* = Weight of machine, half-full water tank, half-full fuel tank, driver, on-board tools, excluding optional equipment features.