

Cold Recyclers and Stabilizers for Maximum Mixing Performance and Quality

WR SERIES

WR 200 X | WR 240 X | WR 250 X



THREE MACHINES THREE WORLD CLASS PERFORMERS

The WR series machines are ideal for a variety of application scenarios from cold recycling (structural road rehabilitation) to the stabilization of a wide range of construction materials in processes such as soil stabilization or consolidation in road construction.

The WR 200 X boasts compact dimensions and low machine weight that guarantee maximum flexibility when transporting it from place to place.

The WR 240 X strikes a perfect balance between machine performance and weight that assures high daily productivity.

The WR 250 X is the most powerful machine of the WR series and provides the highest productivity and power reserves in every situation.



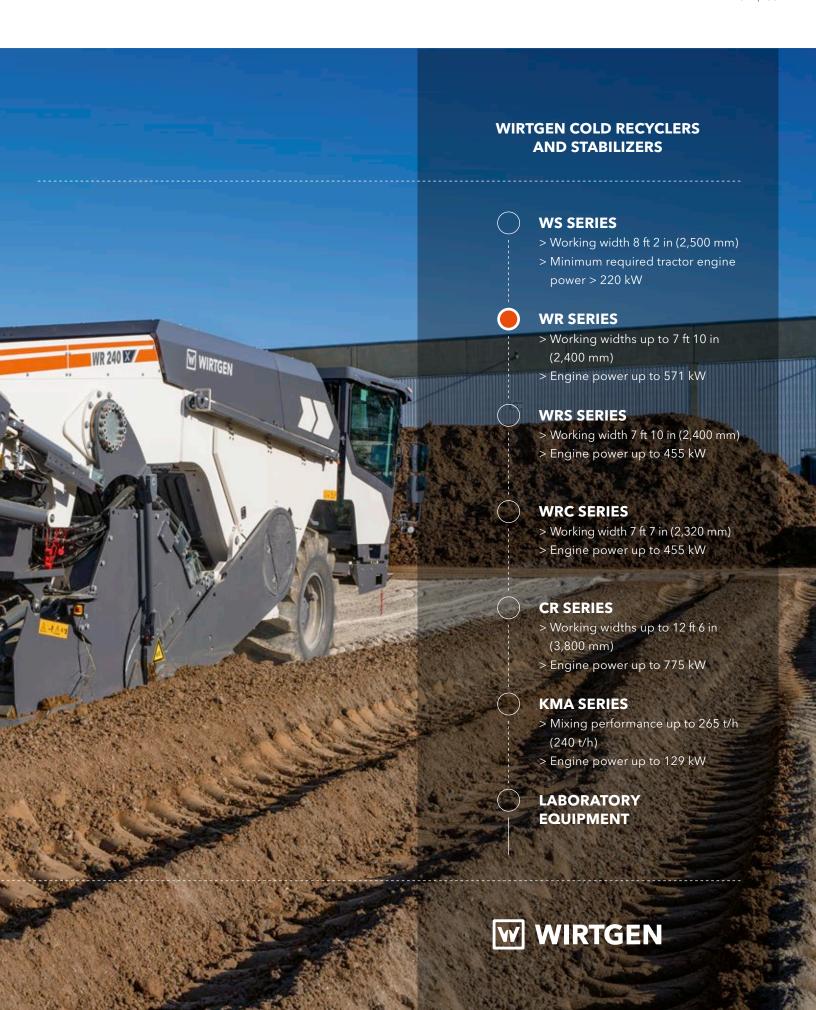


LEADING EDGE

Premium edge with innovative technology

The intuitive human-machine interface (HMI) of the X-Tier models provides comprehensive assistance to increase the in-situ mixing quality of the construction material being produced and to boost machine productivity.

The digital components MIX ASSIST and WIRTGEN GROUP COPILOT enable a significant efficiency boost, which in turn leads to considerably lower operating costs per square meter.



OVERVIEW OF HIGHLIGHTS

World Leaders in Performance, Quality, and Efficiency

Maximum Comfort and Safety for Fatigue-Free Operating

- > Cabin with ROPS / FOPS standards for maximum operator safety
- > Hydraulic, laterally shiftable operator's cabin with a 90°-rotatable operator's seat
- > Ergonomically designed workspace with logically placed control elements on each of the armrest consoles
- > Views from up to five cameras displayed on a HD touchscreen camera monitor with split-screen display and zoom function
- > Standard reverse assistant
- > Convenient stepladder with "Welcome and Going Home Light"
- > Features for reducing the everyday workload on the construction site

Intuitive HMI - Human-Machine Interface - for Fast Learning and Improved Safety

- > Large, intuitively operable main HD touchscreen display for optimal process monitoring
- > WIRTGEN GROUP COPILOT smart machine operator assistant and digital instructor
- > Practical operator support functions

O3 Simple Maneuvering for Higher Productivity Under All Conditions Encountered on Construction Sites

- > Four different steering modes for easy maneuvering
- > Minimum turning circle of only 10 ft 4 in (3,150 mm)
- > Alternative, sensitive and agile steering with fingertip control on the left armrest console
- > AutoTrac[™] steering assistant for absolute precision on the construction site and fatigue-free working
- > AUTOMATIC REVERSE function for rapid reversal of travel direction

Maximum Productivity and Mixing Performance for High Economic Efficiency

- > Power belt drive for maximum power transmission to the mixing rotor
- > Four-way pendulum with lifting-column concept for optimal all-terrain mobility and ground clearance
- > Powerful all-wheel drive for maximum traction
- > Numerous performance-enhancing assistance functions

Precise Metering Systems for Water and Binding Agents for Best Mixing Results

- > Smart injection systems
- > VARIO injection bars with adjustable nozzle cross-section for consistent injection width
- > Injection bars with automatic self-cleaning during the work process
- > Manual cleaning function



Best Mixing Results for Highest-QualityConstruction Materials

- > MIX ASSIST for predefined, customizable, and efficient workflows at the press of a button
- > Nine or twelve different rotor speeds to adapt to different primary materials
- > ACTIVE SPEED CONTROL for constant machine advance speed
- > Status of the **VARIO** injection nozzles visualized on the operator's display for adding water and bitumen
- > Adjustable pressure for the rotor housing rear door assisted by ACTIVE REAR DOOR FLOAT
- > Variable mixing chamber automatic adjustment of the mixing chamber volume depending on the working depth

Unparalleled Cutting Technology for Maximum Service Life

- > The universal **DURAFORCE** milling and mixing rotor for all applications
- > Extremely hard-wearing quick-change toolholder system HT22 in various versions
- > Exchangeable rotor end ring segments
- > **Go-To-Tool-Change** control panel for efficient and convenient rotor inspection and maintenance

WPT Stabilizing for Seamless ProjectDocumentation

- > Automatic mix performance documentation for an accurate project accounting
- > Comprehensive construction site reports for documented mixing quality
- > Simple and precise construction site accounting

Outstanding Reliability for Maximum Machine Utilization Rates

- > Self-explanatory diagnostics technology
- > Continuous function monitoring
- > Robust and reliable CAN bus
- > Time-saving service and maintenance concept

Minimal Operating Costs and Active Reduction of CO₂e Emissions

- > Improved **DURAFORCE** mixing rotor design
- > Assistance systems such as MIX ASSIST,

 ACTIVE REAR DOOR FLOAT, AutoTrac™ etc. for higher efficiency
- > Maximum performance in the low speed range thanks to smart engine speed management
- > Automatic stop function for diesel engine





WIDE RANGE OF APPLICATIONS

Stabilizing Subgrades

The finely tiered WIRTGEN WR series offers the right solution for every stabilization and cold recycling task. As one example, soil stabilization outperforms soil replacement thanks to fewer material trucking movements, shorter construction times, conserved resources, and lower CO₂e emissions.

When working as a stabilizer, the WR series machine uses its powerful milling and mixing rotor to mix pre-spread binding agents such as lime or cement into the existing, insufficiently stable subgrade

material at working depths of up to 22 in (560 mm) and transforms it in-situ into a high-quality construction material.

The resulting homogeneous mixture of soil and binding agent provides excellent compressive and shear strength, long-term resistance to water and frost, and volume stability. Other typical applications, with or without the addition of binding agents or aggregates, include the construction of paths, roads, highways, routes, parking lots, sports grounds, business parks, industrial plants, airfields, dams, backfilling, and landfills.

PERFORMANCE SPECTRUM IN THE STABILIZATION OF SLIGHTLY TO EXTREMELY COHESIVE SOILS

	WR 200 X	WR 240 X	WR 250 X
Full performance range	598 yd²-9,568 yd²/day	1,196 yd²-11,960 yd²/day	2,392 yd²-17,940 yd²/day
	(500-8,000 m²/day)	(1,000-10,000 m²/day)	(2,000-15,000 m²/day)
Ideal performance range	1,196 yd²-5,980 yd²/day	4,784 yd² - 9,568 yd²/day	7,176 yd²-14,352 yd²/day
	(1,000-5,000 m²/day)	(4,000 - 8,000 m²/day)	(6,000-12,000 m²/day)







01 - 03 Stabilization transforms sub-bases with insufficient bearing capacity into soil that is suitable for paving and compaction.

Cold Recycling for Structural Road Rehabilitation

Over time, the steady increase in car and truck traffic, the aging of the surface layer, and delayed maintenance lead to structural damage to the individual layers of roads and highways. This increasingly reduces their load-bearing capacity. When used in cold recycling, the WR series remedies these deficits quickly, cost-effectively, and in a resource-friendly manner. This is because the WR series is equipped with a powerful milling and mixing rotor as well as state-of-the-art injection systems. The WR series machines use the milling and mixing rotor to granulate bound and unbound layers, add precisely measured doses of

binding agents and water by injection, and produce a homogeneous mix - all in a single pass. The mix produced in situ, which is available as a new base course after compaction, is known for its very high load-bearing capacity and outstanding durability.

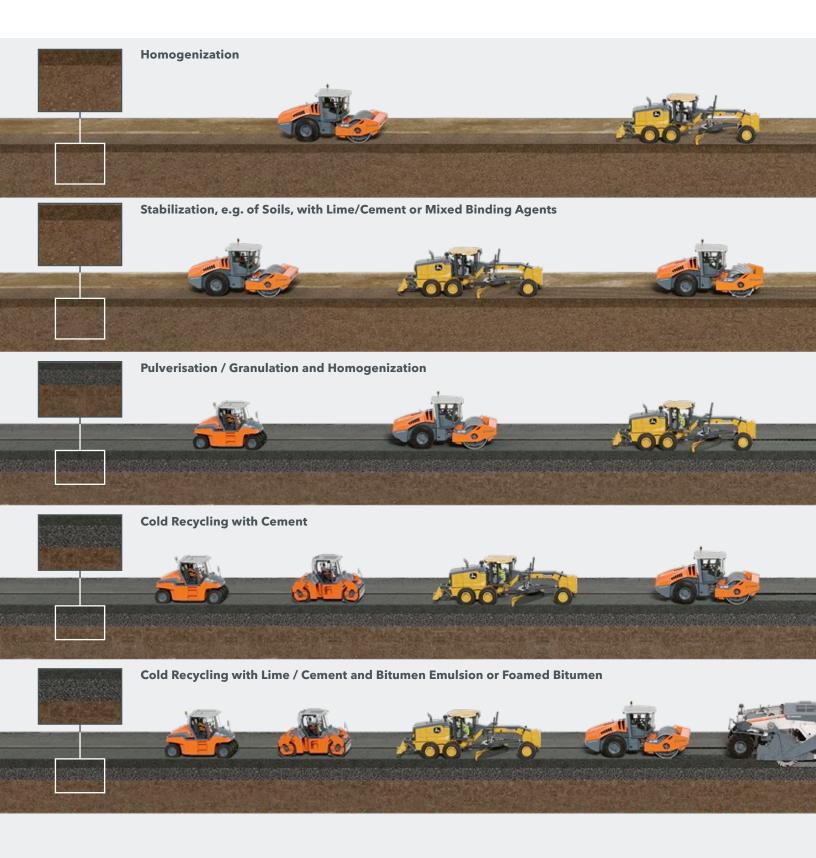
Cement, lime, water, bitumen emulsion, and foamed bitumen can all be used as binding agents. The thickness of the base layers varies according to the mix being produced and the intended load class. New base layers produced by cold recycling are generally paved over with an asphalt surface layer for completion.

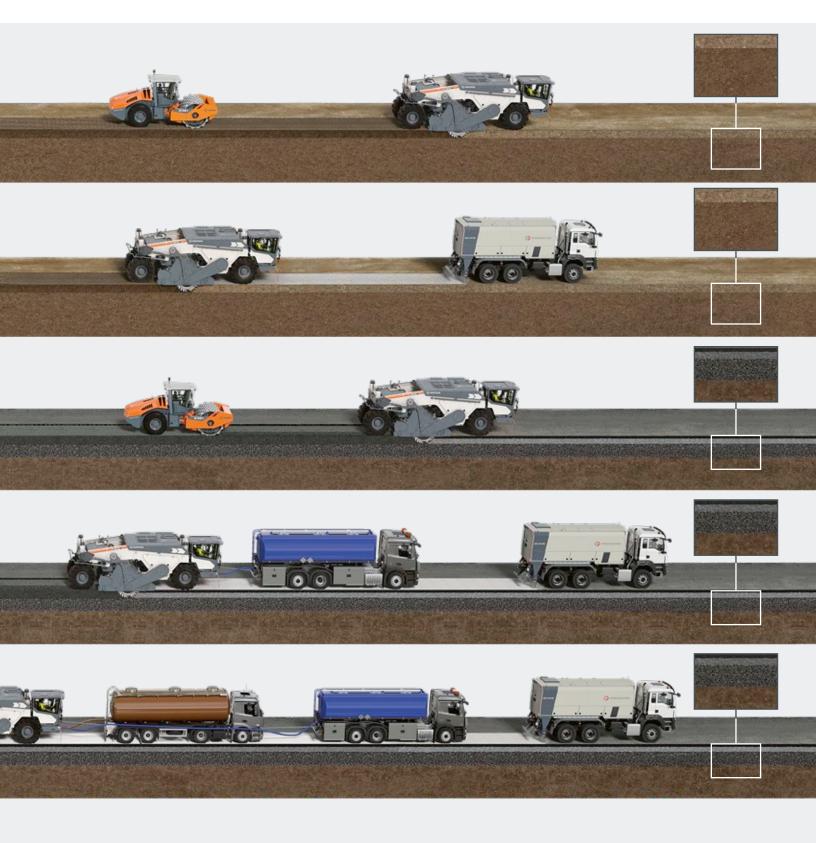
PERFORMANCE SPECTRUM OF COLD RECYCLING IN STRUCTURAL ROAD REHABILITATION WR 200 X WR 240 X WR 250 X Ideal performance range Up to 957 yd²/h (800 m²/h) Up to 1,196 yd²/h (1,000 m²/h) Up to 1,435 yd²/h (1,200 m²/h) Recyclable asphalt thickness 3.9 in - 5.9 in (10 - 15 cm) 5.9 in - 7.9 in (15 - 20 cm) 7.9 in - 9.8 in (20 - 25 cm)



04 - 06 In cold recycling, damaged asphalt layers are granulated, mixed with binding agents, compacted, and repaved.

WIDE RANGE OF APPLICATIONS





MAXIMUM COMFORT AND SAFETY

For Fatigue-Free Operating

Cabin with ROPS / FOPS Standards for Maximum Operator Safety

The spacious operator's cabin complies with all globally recognized safety standards for ROPS / FOPS and provides maximum protection for the machine operator. The WR series models also feature a safety belt as a restraint system for the operator.

Hydraulic, Laterally Shiftable Operator's Cabin with a 90°-Rotatable Operator's Seat

The spacious operator's cabin can be hydraulically moved beyond the edge of the machine on the right and the operator's seat can be rotated by 90° to optimize the view of the entire working edge on the right side. The operator can configure the workspace ergonomically - the use of the measuring rod, the



exterior mirror and/or the digital camera system ensures a clear view of the working edge and thus a precise overlap.

Ergonomically Designed Workspace with Logically Placed Control Elements on each of the Armrest Consoles

Room to move, a comfortable interior, and automatic interior temperature regulation are key features of the spacious, soundproofed cabin of the WR series machines. Comfortable, vibration-damped operator's seat, an individually adjustable steering column, Bluetooth radio, hands-free function, cellphone holder, USB sockets, windshield wipers, and logically arranged, back-lit controls integrated in both adjustable armrest consoles are just a few of the characteristic features.

The easy to reach, application-oriented controls integrated in the right armrest console allow intuitive operation of the machine. Essential machine functions such as the selection of the steering mode, regulation of the advance rate, reverse control, speed control, rotor raising/lowering, and several "favorites" buttons have been logically combined in the multifunctional joystick for maximum ease of use.

Important controls are integrated in the left armrest console with an ergonomically designed handrest. These include, for example, the machine height adjustment and fingertip steering - the ergonomically designed joystick for precise but agile steering control as an alternative to the steering wheel. Another operator-friendly detail is the highly convenient, automatic straight-ahead reset of the front wheels at the press of a button.

- **01** The spacious operator's cabin provides a highly ergonomic and comfortable environment.
- **02** The individually adjustable comfort seat enables the operator to easily find the most comfortable working position.
- 03 The multifunctional joystick on the righthand armrest console fits perfectly into the palm of the operator's hand.
- **04** The left armrest console controls include machine height adjustment and the fingertip steering.









MAXIMUM COMFORT AND SAFETY

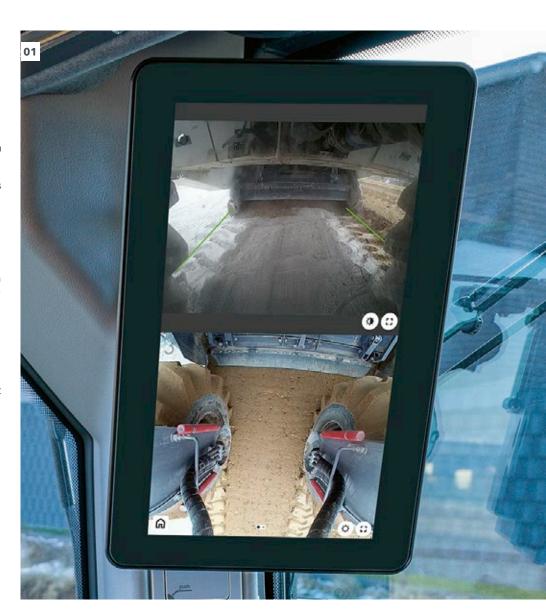
For Fatigue-Free Operating

Views From up to Five Cameras Displayed on a HD Touchscreen Camera Monitor with Split-Screen Display and Zoom Function

The standard equipment of the machines includes a rear-view camera at the rear of the machine. The view is shown on the main control screen. At the customer's request, four additional high-resolution HD cameras can be attached to the mirrors on the left and right and in front of and behind the rotor housing. The views from these cameras are then displayed on the ruggedized, intuitively operable 12.8" color touchscreen camera monitor on the right-hand pillar of the operator's cabin.

When multiple cameras are in use, the views from up to five can be displayed simultaneously on a logically arranged split screen that enables the operator to focus on the most important working areas. The MIX ASSIST automatically alters the hierarchy of the views displayed on the split screen in response to the working steps initiated by the operator.

In addition, bright lines superimposed on the "Rotor housing front door" view indicate the zero edge to the left and right of the rotor. The operator can adapt this as required. Thanks to the optimized night vision and quick brightness adjustment of the digital cameras' zoom function, even the smallest details can be immediately recognized, for example, by using the camera image "Rotor housing rear door" for direct assessment of the mixing quality.



- **01** Up to five cameras including a reverse assistant provide a perfect overview.
- **02** Cabin retracted for transport or passing by obstacles.
- **03** Cabin extended best visibility to, for example, look past a towed tanker vehicle.
- **04** The push bar can be pulled out with a minimum of effort.
- **05** A foldaway stepladder provides easy access to the operator's cabin.

Standard Reverse Assistant

The reverse assistant helps the machine operator by providing guidelines when operating the machine in reverse. The reverse assistant guidelines clearly indicate the driving path to the operator when reversing, depending on the steering angle and steering mode. The display is activated automatically when reversing.

Convenient Stepladder with "Welcome-And- Going-Home Light"

The machine environment can be illuminated by LED lights in the access area and around the rotor housing: When approaching the machine by pressing a button at the access point, or automatically upon leaving through the door contact.

Features for Reducing the Everyday Workload on the Construction Site

The WR series machines offer numerous functions that make work easier and speed it up. These include the optional push bar holder at the front of the machine, directly below the operator's cabin, next to the hitch point. Whenever required, the push bar can be pulled out and hitched up. In addition, the operator can choose from variously sized storage compartments at the rear of the machine: a small storage compartment is provided as standard equipment, while a large storage compartment above the rotor housing rear door and a further compartment for up to eight WIRTGEN toolboxes are available as optional extras. All storage compartments can be securely locked.









INTUITIVE HMI -HUMAN-MACHINE INTERFACE

For Fast Learning and Improved Safety

Intuitive Operating Concept

Customizable User Profiles

Clear and logically structured main display screen Saved personal setting



Large, Intuitively Operable Main HD Touchscreen Display for Optimal Process Monitoring

The control and display elements on the main display screen and in both armrest consoles are clearly laid and logically arranged to meet the needs of each application. They make it possible to quickly and intuitively control machine functions. For example, the rocker switch for the rotor housing rear door is yellow and its counterpart for the rotor housing front door is blue - this color coding corresponds precisely to the colors on the machine display screen and the left armrest console.

The large, 12.8" main HD color touchscreen display provides a comprehensive overview of all relevant process parameters and settings and the ability to apply or change them with the aid of a turn-and-push control and hard keys at the edge of the screen.

After starting up the machine, the first screen to appear on the main display is the home screen with the personal user profile and the choice of language, allowing access to tutorials (introduction/training videos), the guide, or other submenus. Users can create their own user profiles and save their personal settings. This also includes the programming of "favorites" buttons and custom display-configuration presets.

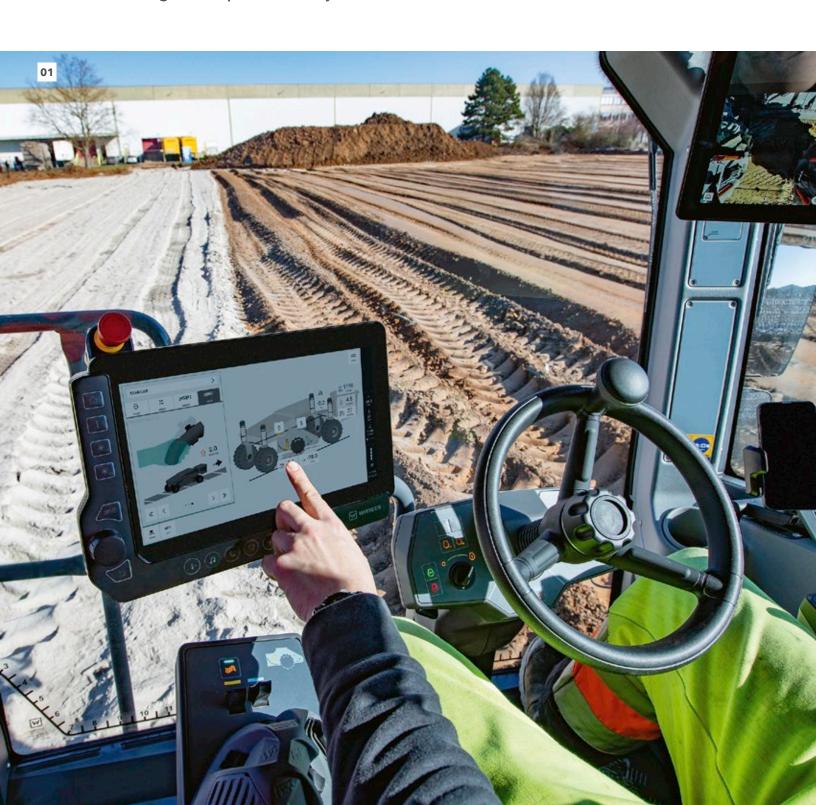
Here, it is also possible to create application-oriented profiles with a variety of relevant process parameters such as screen views, nominal values, material density, dosing quantities, etc. This enables operators to switch between different applications – for instance, soil stabilization and cold recycling of base layers – with a minimum of configuration time and effort.

- **01** The color-coordination of buttons and displays for specific machine functions promotes intuitive operation.
- 02 After starting the machine, the home screen with the user profile is displayed to initiate the subsequent operator steps.



INTUITIVE HMI -HUMAN-MACHINE INTERFACE

For Fast Learning and Improved Safety



WIRTGEN GROUP COPILOT - Smart Machine Operator Assistant and Digital Instructor

The **WIRTGEN GROUP COPILOT** helps machine operators to leverage the full potential of the WR series machines and translate this into highest mixing quality, machine productivity, and efficiency. The **WIRTGEN GROUP COPILOT** consists of three components:

> Tutorials

Learning as if in your own classroom! Training videos with audio instruction in multiple languages explain important machine functions to the operator via the speakers installed as standard in the operator's cabin. These include, for example, maintenance tasks or quides to the achievement of more effective machine utilization.

> Guide

When starting the machine, the app asks what task or application the operator wants to learn more about when working with the machine - e.g. working with water, loading etc.

Instruction in machine operation, such as driving exercises and steering modes, is subdivided into small, interactive steps - supported by application-oriented, easy-to-understand animations. Guide overlays can be called up at any time, even during the work in progress.

- **01** The Guide provides practical information on selected functions.
- **02** Tutorials (training videos) prepare users for optimal machine operation.
- 03 The dosing calculator indicates, for example, the potential range with the available binder or water.

> i-Functions

The i-functions offer help with, and details about, specific functions and buttons. Pressing an i-button and then pressing a membrane key or switch displays a short description of the previously activated function on the main control panel.

In addition to English, Spanish, French, Italian, Portuguese, and German, other languages such as Turkish, Japanese, Thai, or Chinese are also available. In addition, users can choose either the metric or imperial measurement systems, regardless of the selected language.

Maintaining its clear customer focus, WIRTGEN will be enabling an expansion of functions related to the **WIRTGEN GROUP COPILOT**, further tutorials, animations, and tools with future software updates. If required, please feel free to contact one of our sales and service partners.

Practical Operator Support Functions

Thanks to practical auxiliary functions, such as a dosing calculator, it is possible to determine the potential range with the currently available binder. This provides a simple overview of the consumption of resources with current working procedures and enables optimum timing of logistics-related interruptions.





SIMPLE MANEUVERING

For Higher Productivity Under All Conditions Encountered on Construction Sites

Four Different Steering Modes for Easy Maneuvering

The machine operator can choose any of four different steering modes: straight-ahead, crab steering, coordinate, or manual steering. Each of the four steering modes offers the fastest way to reach, in its specific area of application, the desired result. The operator can easily switch between steering modes using the multifunctional joystick, and the currently selected steering mode is always clearly displayed.

Minimum Turning Circle of Only 10 ft 4 in (3,150 mm)

In coordinate mode, the WR series machines boast a minimum turning circle of only 14 ft 9 in (4,500 mm). The oversteering

function further steers the rear wheels. As a result, the machine can achieve an extremely small turning circle of only 10 ft 4 in (3,150 mm), which is even tighter than that of many passenger cars.

Alternative, Sensitive and Agile Steering with Fingertip Control on the Left Armrest Console

For operators, smart fingertip steering – or thumb steering – on the left armrest console is a particularly ergonomic and userfriendly alternative to steering with the steering wheel. This adaptive, proportional steering mode also enables extremely precise but nevertheless agile steering. Located next to the





fingertip steering, there is a push button that, when pressed, automatically realigns the front wheels back to straight-ahead after steering maneuvers.

AutoTrac™ Steering Assistant for Absolute Precision on the Construction Site and Fatigue-Free Working

The GNSS-based steering system controls the machine within centimeter-level accuracy (+/- 1 in (2.5 cm)) using the SF-RTK correction signal, based on a previously created reference path and a defined desired overlap. The system precisely steers the machine and maintains an ideal overlap of the paths. This significantly increases productivity and simultaneously reduces operating costs.

AUTOMATIC REVERSE Function for Rapid Reversal of Travel Direction

With the **AUTOMATIC REVERSE** function, the machine reverses its direction of travel at the press of a button and uses the preset values from **ACTIVE SPEED CONTROL**. This makes maneuvering on the construction site easier, makes working procedures run more smoothly, and saves valuable time.

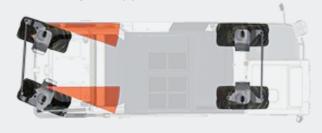


- **01** Fingertip steering on the left armrest console enables extremely ergonomic and precise steering.
- **02** The steering mode can be very easily set on the multifunctional joystick on the right armrest console.

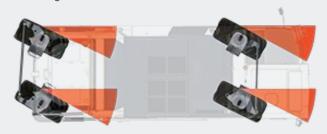
- O3 AutoTrac™: The system precisely steers the machine and maintains an ideal overlap of the paths.
- **04** Different steering modes for particularly easy handling.



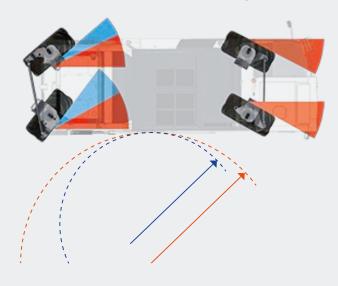
Rear-wheel steering with the joystick



Crab-steering mode



Coordinate mode / coordinate mode with oversteering



- = = Minimum turning circle in coordinate mode:R_{min} = 14 ft 9 in (4,500 mm)
- \blacksquare \blacksquare = Minimum turning circle in coordinate mode with oversteering: $R_{min} = 10$ ft 4 in (3,150 mm)

MAXIMUM PRODUCTIVITY AND MIXING PERFORMANCE

For High Economic Efficiency

Power Belt Drive for Maximum Power Transmission to the Mixing Rotor

Thanks to the large wrap angle of the V-belt pulleys, the heavy-duty power belt drive transmits the engine power to the rotor gearbox with minimal power loss, thus ensuring high efficiency. A positive side effect of the intelligently designed drive concept is its low fuel consumption and easy maintenance.

The power belt drive simultaneously functions as a damping element between the diesel engine and the milling and mixing rotor. This reduces wear, vibration, backlash, etc. In addition, the V-belt pulleys can be swapped with each other to adapt the rotor speed to the respective application or the required mixing quality.



Four-Way Pendulum with Lifting-Column Concept for Optimal All-Terrain Mobility and Ground Clearance

The WR series machines can comfortably handle even particularly uneven terrain. The field-proven, lifting-column concept with four-way pendulum system quickly and dynamically compensates for any unevenness of the ground and guarantees outstanding all-terrain mobility.

Especially in deep, marshy ground, where sufficient ground clearance is essential, the four-way pendulum ensures that all four wheels remain constantly in contact with the ground and that the machine continuously advances.

- **01** The intelligently designed drive concept ensures low fuel consumption and easy maintenance.
- **02** The machine easily compensates for uneven terrain.



MAXIMUM PRODUCTIVITY AND MIXING PERFORMANCE

For High Economic Efficiency

Powerful All-Wheel Drive for Maximum Traction

The key word when it comes to maximum feed performance is traction – and not only on slippery ground. And traction is something the WR series machines have more than enough of: The fully controlled all-wheel drive ensures permanent maximum traction for each of its four independently, hydrostatically driven wheels. The flow divider of the WR series X-Tier models reduces performance losses.

As a result of this, it also enables lower fuel consumption and higher efficiency. The WR series machines are also equipped with a field-proven load-limitation regulator. This controls the machine advance rate according to the current load. As the load increases, the load-limitation regulator reduces the speed or accelerates to a preset value (e.g. from **ACTIVE SPEED CONTROL**) when the load becomes less.

Fast Processes

Efficient MIX ASSIST

Ideal Traction

All-wheel drive



Numerous Performance-Enhancing Assistance Functions

A whole range of assistance functions not only reduce the operator's workload, but also increase the machine's productivity, efficiency, and mixing quality.

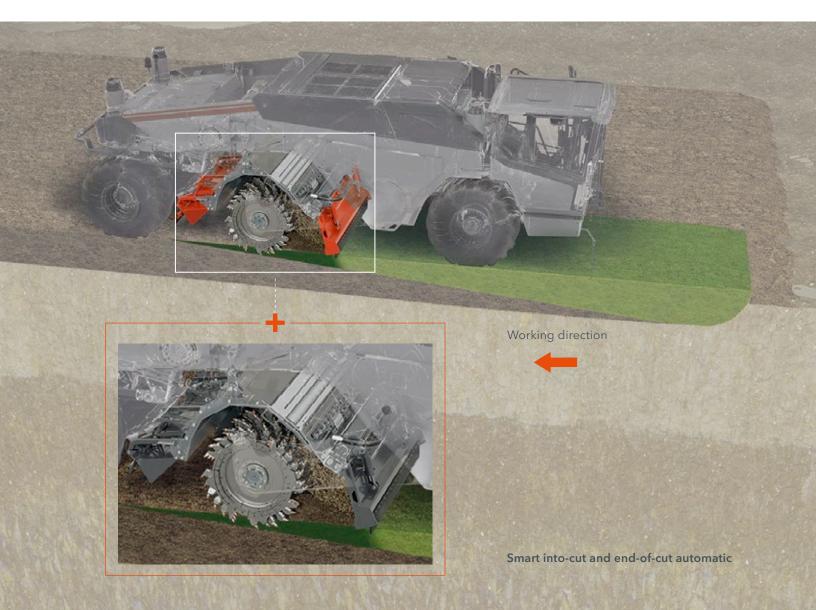
An example is **MIX ASSIST**, which enables individual configuration of a variety of automation functions that can then be activated at the press of a button. The operator can freely combine numerous process steps to create an automated procedure for use in specific situations. As a result, working procedures can be executed identically and to a consistent quality. This reduces the operator's workload enormously while improving machine productivity and significantly reducing emissions.

Another example is the **AUTOMATIC REVERSE** function: This reverses the machine's direction of travel at the press of a button, using the preset values from **ACTIVE SPEED CONTROL**. This

makes maneuvering on the construction site easier, makes working procedures run more smoothly, and saves valuable time.

The operator activates the automatic smart positioning and endof-cut processes on the multifunctional joystick and the machine takes care of everything else. The use of automatic end-of-cut, for example, closes the cut created by the rotor at the end of each path.

Not only the functions mentioned above, but also many others can be linked using **MIX ASSIST**. As a result, work processes are optimized semiautomatically and productivity is increased.



PRECISE METERING SYSTEMS FOR WATER AND BINDING AGENTS

For Best Mixing Results

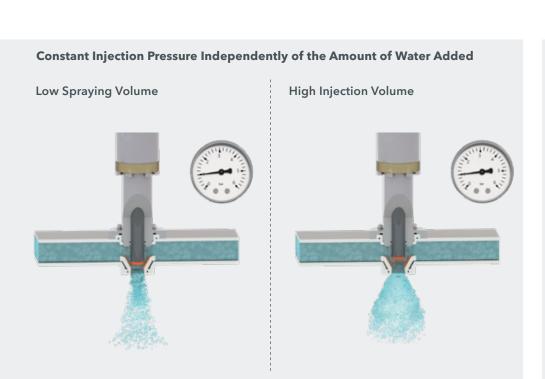
Smart Injection Systems

For the achievement of high-quality mixing results, merely entering the required parameters is not enough. These must also be kept constant as the work progresses. The WR series has all it takes to meet these requirements: Input is convenient and easy with only a few controls on the left armrest console and on-screen. Clearly and logically structured menus enable the operator to quickly access individual pages. Thanks to large, easy-to-understand display indicators, the operator is always optimally informed about the current parameters during the work process. If specific values require correction, these can be adjusted quickly and with minimum effort.

Microprocessor-controlled flow meters regulate the flow rate of the pumps for the addition of water, bitumen, or bitumen emulsion. The respective quantity addition is based on the selected parameters such as working width, depth, material density, and machine feed rate. Depending on the overlap, injection nozzles can be switched on or off to prevent over- dosing during addition.

VARIO Injection Bars with Adjustable Nozzle Cross-Section for Consistent Injection Width

The nozzles of the **VARIO** injection bars for foamed bitumen, bitumen emulsion, and water feature an adjustable nozzle cross-section. This enables the injection width - and the injection pressure - to be kept constant, independently of the volume. This ensures an ideal and even distribution in the milling and mixing unit across the defined injection width, and thus assures the homogeneity of the mix.





on injection bar for water or bitumen emulsion.

Injection Bars with Automatic Self-Cleaning During the Work Process

Individual injection nozzles are regularly opened at short intervals as the work progresses. This flushes out any residues in and around the nozzles.

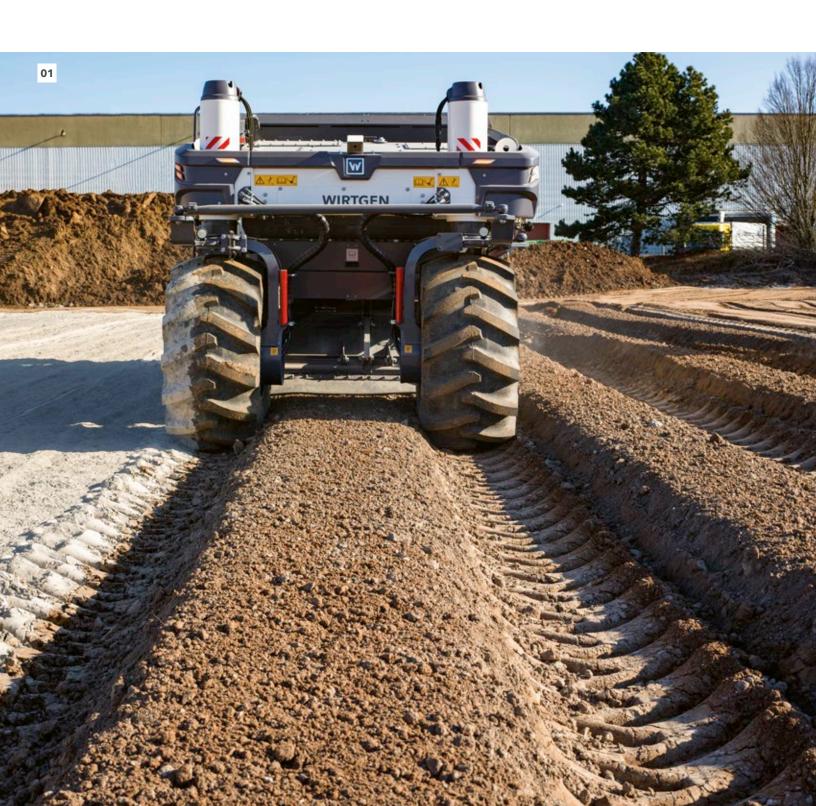
Manual Cleaning Function

The injection nozzles can also be cleaned manually when work is interrupted or finished and the rotor is stopped. To do this, the piston rod is pushed through the injection nozzle outlet to remove any residues.



BEST MIXING RESULTS

For Highest-Quality Construction Materials



MIX ASSIST for Predefined, Customizable, and Efficient Workflows - at the Press of a Button

Thanks to MIX ASSIST, various automation functions can be individually configured and called up at the press of a button. Numerous work steps can be freely combined by the operator in various automated workflows to meet the needs of specific applications. This means that a process chain can be automatically executed with a freely assignable "favorites" button. Functions can be executed in parallel but also sequentially, one after the other - as required.

By combining in **MIX ASSIST** a variety of functions such as rotor speed, machine advance speed (via **ACTIVE SPEED CONTROL**), **ACTIVE REAR DOOR FLOAT**, **AUTOMATIC REVERSE**, rotor housing door settings, injection system, and numerous other parameters, a consistently high-quality mixing result can be ensured.

Nine or Twelve Different Rotor Speeds to Adapt to Different Primary Materials

Through the right arm console in the cabin and by repositioning the pulleys, it is possible to set nine (WR 200 X, WR 240 X) or twelve (thanks to the two-stage switchable rotor gearbox in the WR 250 X) different rotor speeds.

ACTIVE SPEED CONTROL for Constant Machine Advance Speed

The cruise control function **ACTIVE SPEED CONTROL** enables quick, targeted acceleration and regulation of defined feed values in working or transport mode, depending on the direction of travel. Separate speed values for forward and reverse travel can be specified for both modes. Once the operator has set the ideal speed for the application, the machine immediately retrieves this value when the **ACTIVE SPEED CONTROL** function is activated. The speed value can be quickly adjusted via the scroll-wheel on the multifunctional joystick.

Conclusion: The MIX ASSIST, in combination with ACTIVE SPEED CONTROL, optimally selected rotor speed, and many other features, achieves significant operator relief, increased machine productivity, and high, consistent mixing quality. At the same time, fuel consumption, pick consumption, noise emissions, and CO₂e emissions are all significantly reduced.



- **01** The milling and mixing rotor assures high mixing quality on every job.
- 62 Four freely assignable favorite buttons (*) on the multifunction joystick of the right arm console allow for ergonomic access to important functions.

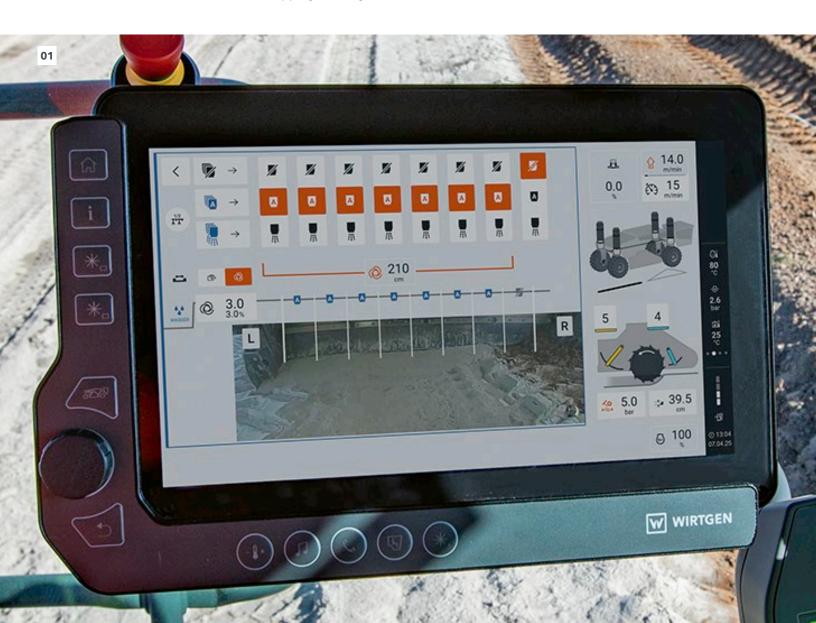
BEST MIXING RESULTS

For Highest-Quality Construction Materials

Status of the VARIO Injection Nozzles Visualized on the Operator's Display for Adding Water and Bitumen

If the machine is equipped with the optional five-camera system, the operator will be able to see the areas in which injection is taking place on the main control panel. The actual injection nozzle status (open/closed/automatic) is displayed next to this visualization in the live camera view. In the case of overlapping, the bright

lines superimposed on the camera view give the operator a good estimate of which nozzles will need to be activated or deactivated during the next parallel pass. The material already milled is easily recognizable, as it will be damp and loose. These guidelines thus show up to where the injection nozzles must be deactivated to avoid overdosing.



- **01** A camera image on the main display clearly shows which injection nozzles need to be activated or deactivated.
- 02 The ideal pressure of the rotor housing rear door optimized by ACTIVE REAR DOOR FLOAT ensures high quality mixing results.
- **03** The crusher bar on the front rotor housing door reliably breaks up slabs.

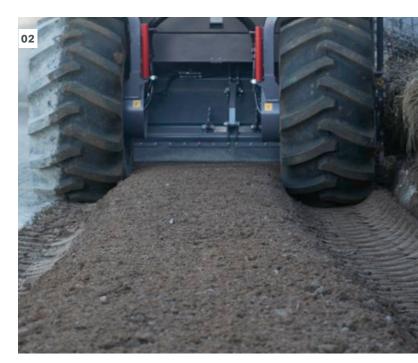
Adjustable Pressure for the Rotor Housing Rear Door - Assisted by ACTIVE REAR DOOR FLOAT

The combination of a variable mixing chamber and adjustable pressure of the rotor housing rear door leads to consistently high, homogeneous mixing quality. The productivity of the machine is further increased by **ACTIVE REAR DOOR FLOAT** - this function makes it easier to start advancing in the cut to get the material flow going. This reduces working time, fuel consumption, and wear and tear.

The rotor housing front door seals off the milling and mixing unit at the front. At the same time, it protects against flying stones and improves controlled rolling of binding agents. The integrated, extremely wear-resistant crusher bar breaks up slabs from asphalt packages and thus ensures high-quality mixing results.

Variable Mixing Chamber - Automatic Adjustment of the Mixing Chamber Volume Depending on the Working Depth

The mixing chamber volume is adjusted by automatically raising and lowering the rotor according to the current working depth and the respective material quantity: The variable mixing chamber increases with the working depth. The adjusted mixing chamber volume enables loosening of the existing material, homogeneous mixing, as well as a high material throughput, resulting in maximum machine productivity at every working depth.









04 - 05 The WR series machines have a proven, variable mixing chamber for optimum mixing results.

UNPARALLELED CUTTING TECHNOLOGY

For Maximum Service Life

The Universal DURAFORCE Milling and Mixing Rotor for All Applications

Cutting technology is our core competence: The extremely wear-resistant WIRTGEN **DURAFORCE** milling and mixing rotor not only transforms difficult soils into high-quality construction materials. It granulates various bound and unbound base layers and impresses with high performance, long service life, and optimal quality regarding the mixing result. The engine power and the mixing performance of the various machine types are ideally

matched to one another and achieve the highest possible productivity and mixing quality at varying working widths and depths.

Efficiency was the key focus in the development of the X-Tier WR series – also for rotor design. The optimized design of the spiral ensures even higher productivity and mixing quality while simultaneously reducing fuel consumption, CO_2e emissions, and wear.

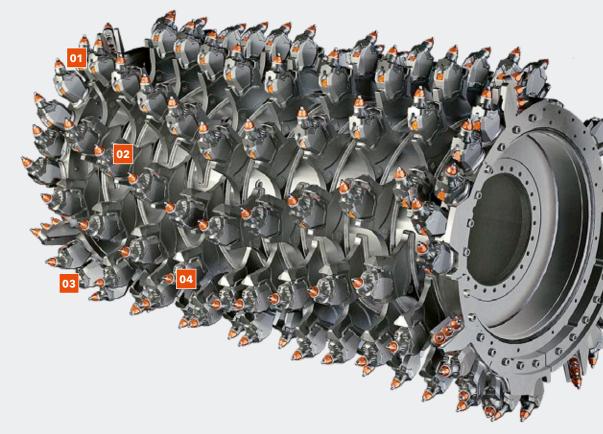
Highlights of the DURAFORCE Milling and Mixing Rotor

- 01 High Service Life
 - > Hard-wearing Generation Z cutting tools for demanding soil stabilization and cold recycling applications
 - > Heavy-duty HT22-quick-change toolholder system for minimal downtimes
- Universal Milling and Mixing
 Rotor

High-productivity milling and mixing rotor for all applications

- Powerful Mixing Performance
 Intelligently designed geometry
 of the holder strut paired with the
 large diameter of the milling and
 mixing rotor ensure optimal,
 homogeneous mixing
- O4 High Performance and Perfect Mixing Results
 Tool spacing and the tool

Tool spacing and the tool pattern are precisely matched to the machine's performance (from the tool to the holder strut)



The robust design of the rotor promotes balanced, shock-free rotational behavior and thus protects the drive components. Tools on high bases arranged in an ideal pattern up to the edges guarantee homogeneous mixing of the construction materials at all working depths.

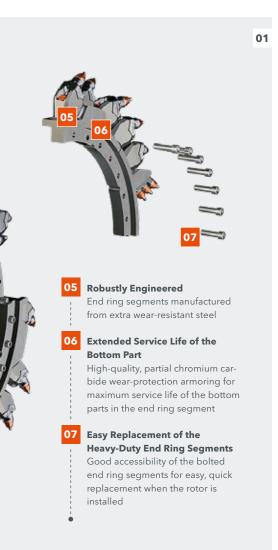
Each model of the WR series requires only one milling and mixing rotor to complete any job - regardless of the material to be processed (soil, bound or unbound base layers).

For instance, the tools on the rotors of both the WR 200 X and the WR 240 X are arranged with a tool spacing of 0.8 in (20 mm). The tool arrangement is thus ideally tailored to the performance of the particular machine.

The rotor of the WR 250 X has a tool spacing of 1.2 in x 2 (30 x 2 mm) – two tools per rotor revolution are positioned at a tool spacing of 1.2 in (30 mm) each. With a larger number of tools, the rotor is perfectly matched to the high engine-power output and, in turn, the tendency towards higher machine advance rates.

The combination of high engine-power output and a particularly robust rotor guarantees the best and finest mixing quality even at higher machine advance rates. Thanks to the **HT22** interface, all rotors can be equipped with a wide range of different tools to meet the specific needs of each construction site. The choice of the right tools simultaneously improves productivity and optimizes operating costs.

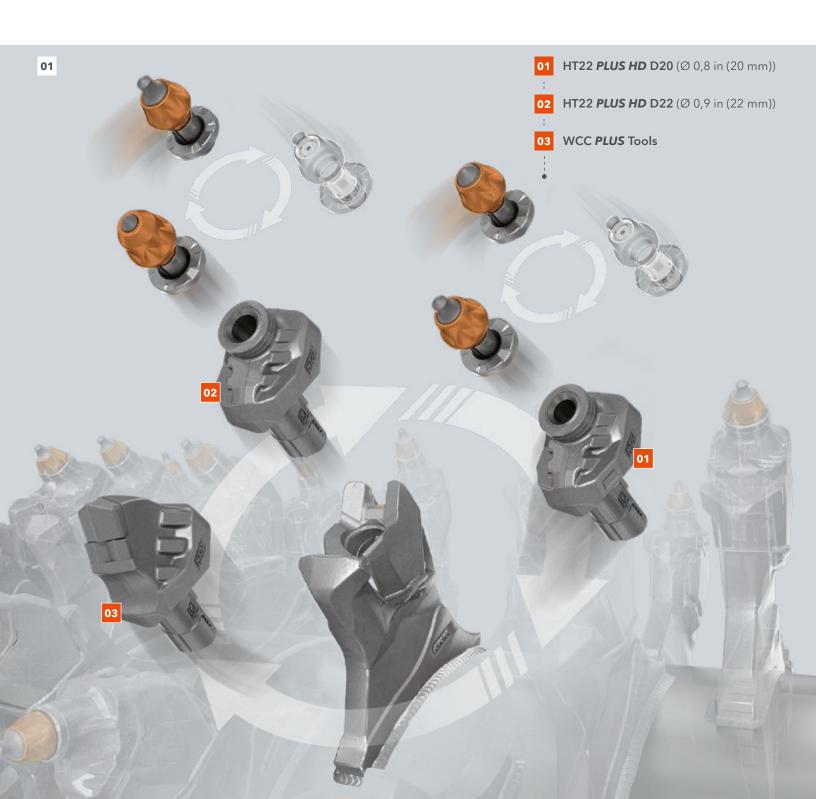
- **01** Highlights of the **DURAFORCE** milling and mixing rotor.
- **02** Quick and easy tool changes with the pneumatic tool extractor.





UNPARALLELED CUTTING TECHNOLOGY

For Maximum Service Life



Less Wear for Higher Utilization Rates

Quick and Easy Rotor Access

Quick-change toolholder system HT22

Go-To-Tool-Change control panel

Extremely Hard-Wearing Quick-Change Toolholder System HT22 in Various Versions

The hard-wearing quick-change toolholder system HT22 enables the use of a variety of different toolholders. Depending on the application and the material in place, this enables further optimization of operating costs.

The HT22 PLUS toolholders impress with greater wear volume in the shoulder and front sections, thereby ensuring a longer service life and providing better protection of the HT22 toolholder base.

The innovative centering embossing on toolholders's contact surface for the wear plate of the **GENERATION Z²** round shank cutting tools results in maximum toolholder service life from the very beginning.

Due to their tool geometry and construction materials, WCC PLUS tools are perfect for mixing cohesive soils containing large rocks or boulders. They also feature extremely wear and shock resistant carbide cutting edges.

Exchangeable Rotor End Ring Segments

The bolted end ring segments made of highly wear-resistant steel are characterized by easy accessibility and allow for quick replacement when the rotor is installed.

- 01 Milling and mixing rotor with quickchange toolholder system HT22.
- **02** Easy rotor inspection with the Go-To-Tool-Change control panel.



Go-To-Tool-Change Control Panel for Efficient and Convenient Rotor Inspection and Maintenance

The separate Go-To-Tool-Change control panel at the rear of the machine enables quick and convenient inspection of the rotor and picks: at the press of a button, the height-adjustment function raises the machine, the rotor housing rear door opens and the rotor is lowered a little, enabling easy access to the rotor. The control panel also offers an engine start-stop function.

If required, the positioning of the rotor and rotor housing door and the setting for the machine height can be individually configured from the main control panel in the operator's cabin.

WPT STABILIZING

For Seamless Project Documentation

Automatic Mixing Performance Tracker

Precise WPT

Analysis of Saving Potentials

Accounted resource consumption



01 Using satellite-based positioning and precise machine sensors, WPT accurately determines the area and volume performance as well as the additives applied.

01

Data center for automatic generation of the WPT report WPT report with the key performance and consumption data for the dispatcher

Automatic Mix Performance Documentation for an Accurate Project Accounting

WIRTGEN GROUP Performance Tracker Stabilizing is a satellite-based monitoring and tracking system for precise documentation of construction sites. It records all site-specific parameters and documents them in a detailed field report. After completion of the work (e.g. the end of the working day), the machine operator presses the send button to transmit the data via the Telematic Control Unit (TCU) of the mobile communication interface. From there, the data are distributed to the designated recipients – e.g. in the form of a report by e-mail.

The GNSS receiver with the licensed SF-RTK correction signal enables accuracy in the range of (+/- 1 in (2.5 cm) from path to path, and this with a very quick pull-in time. This enables the documentation of extremely accurately positioned machine information immediately after the day's work begins, i.e. as soon as the machine is started.

Comprehensive Construction Site Reports for Documented Mixing Quality

In addition to high-precision GNSS machine-positioning data, the report contains a variety of parameters such as the working width and depth, the distance and area covered, the addition of water and binding agents, and consumption figures for resources such as diesel fuel and tools. In addition, the respective working depth as well as the water and binder addition are displayed with precise positioning in a separate layer PDF.

The results enable a precise analysis of performance on the construction site, the quality of the results delivered, and the process efficiency. This in turn enables detailed accounting of all processes on the construction site and the identification of future savings potential.

Simple and Precise Construction Site Accounting

The prompt, simple calculation of the area processed required for the correct invoicing of the work performed saves further costs e.g. as incurred by the employment of an external surveyor.

Machine and WPT data are just as easily transmitted to the John Deere Operations Center for efficient real-time monitoring of construction sites.

OUTSTANDING RELIABILITY

For Maximum Machine Utilization Rates





- **01** Easy diagnostic and parameter settings via the main control panel.
- 02 The optional large rear storage compartment is specially tailored to meet the needs of cold recycling and stabilization applications.
- 03 User-friendly access to the components makes machine maintenance quick and easy.



Self-Explanatory Diagnostics Technology

The diagnostic concept guides the operator easily and intuitively through the diagnosis, parameter-setting, or error-analysis processes with clearly laid out, visually unambiguous diagnostics and setup screens. Through the combination of setup and diagnostics, operators can switch easily between diagnostics and parameter-setting. Any potential malfunction is clearly displayed to the operator, including a fault description, on the main display in the cabin. Comprehensive assistance in text form then enables the operator to begin correcting the fault.

Continuous Monitoring of Functions

The machine's automatic self-diagnostics system autonomously monitors valves, sensors, and control components. Numerous clearly visualized screens quickly provide precise information about the machine's momentary operational status. This also helps ensure maximum machine utilization rates.

Robust and Reliable CAN Bus

Separate CAN-bus systems ensure greater machine reliability. In addition, all important control elements feature dual-channel signal transmission to the CAN bus systems to ensure the reliability of fault analyses and diagnostics. Any faults or malfunctions are immediately displayed on the main control panel in the operator's cabin.

Time-Saving Service and Maintenance Concepts

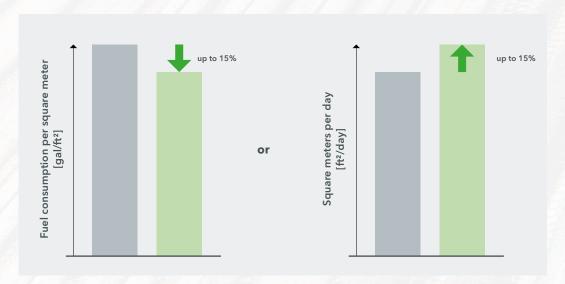
Extended servicing intervals and the smart maintenance concept significantly reduce maintenance effort. The few service points on the machine are clearly positioned and easily accessible either from the ground or from access ladders.

The extra-large storage compartment at the rear of the machine is designed to meet the needs of all applications and enables safe and secure stowage of tools - tools such as the rotor turning device and the portable spotlight can remain permanently connected.

The X-Tier models of the WR series impress with optimized functions and components. These enable the achievement of an increase in operational efficiency of up to 15%. This is primarily due to modifications to the milling and mixing rotor, the innovative flow divider, engine speed management, ACTIVE REAR DOOR FLOAT, and MIX ASSIST.

A closer look at the increased efficiency with regard to a specific project reveals two different perspectives:

- 1. With the same daily output, it comes to faster 2. With same machine operation time, it comes project realization and simultaneously to lower fuel consumption per day or square
 - to higher productivity, and therefore to a higher square meter performance per day.



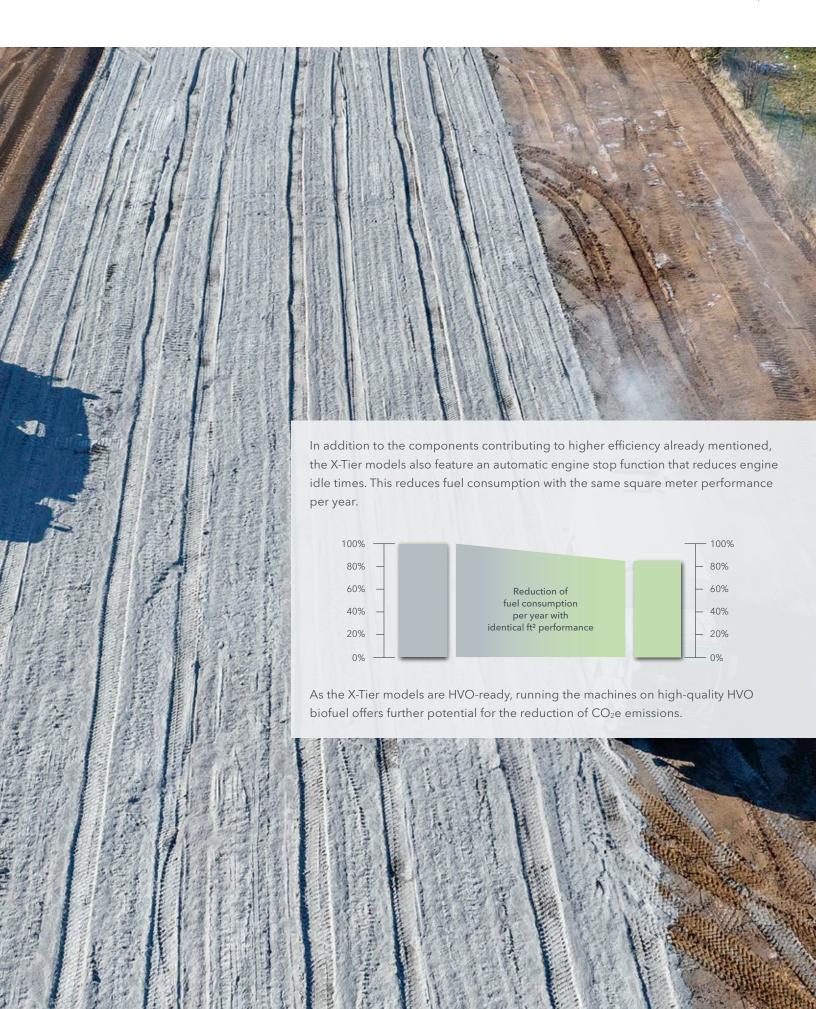
Both cases enable the compensation of logistics and construction related delays - and this with lower fuel consumption per square meter.

The use of the optional **AutoTrac™** steering system makes it possible to further increase efficiency and fuel economy.

Focus on Operating Costs

Significant Fuel Savings





The WR series machines are ideal for a variety of application scenarios from cold recycling (structural road rehabilitation) to the stabilization of a wide range of construction materials in processes such as soil stabilization or consolidation in road construction.

The WR 200 X boasts compact dimensions and low machine weight that guarantee maximum flexibility when transporting it from place to place.

The WR 240 X strikes a perfect balance between machine performance and weight to assure high daily productivity. The WR 250 X is the most powerful machine of the WR series and provides the highest productivity and power reserves in every situation.

TECHNICAL DATA	WR 200 X				
Exhaust emission standard	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f			
Milling and mixing rotor					
Working width	6 ft 7 in (2,000 mm) (optional wo	rking width: 7 ft 10 in (2,400 mm))			
Working depth 1)	0 - 20 in (0) - 500 mm)			
Cutting diameter	4 ft 10 in (1,480 mm)			
Engine					
Engine manufacturer	Mercedes Benz / Deutz	Mercedes Benz / Deutz			
Туре	OM 460 LA	OM 470 LA / TCD 10.7			
Number of cylinders		6			
Power output	at 2,000 rpm: 305 kW / 409 HP / 415 PS	at 1,900 rpm: 316 kW / 421 HP / 430 PS			
Maximum power output	at 1,800 rpm: 315 kW / 422 HP / 428 PS	at 1,600 rpm: 320 kW / 429 HP / 435 PS			
Displacement	781.1 in ³ (12.8 l)	653 in ³ (10.7 l)			
Fuel consumption, full load jobsite mix	21.1 gph 10.3 gph (80 l/h 39 l/h)	19.8 gph 9.2 gph (75 l/h 35 l/h)			
Sound power level according to EN 500-3: engine operator's platform	≤107 dB(A) ≥71 dB(A)	≤106 dB(A) ≥73 dB(A)			
Electrical system					
Power supply	24	4 V			
Tank Capacities					
Fuel	219 ga	al (830 l)			
AdBlue® / DEF ²⁾	-	21 gal (80 l)			
Hydraulic oil	53 ga	(200 I)			
Water	100 ga	ıl (380 l)			
Additional water tank		_			
Driving data					
Working speed in milling and travel gear	0 - 689 ft/min (7.8 mp/h) ((0 - 210 m/min (12.6 km/h))			
Max. transverse tilt	8	3°			
Ground clearance	approx. 16	in (400 mm)			
Tires					
Tire size, front / rear	620/7	75 R26			
Transport dimensions					
Dimensions for truck/trailer transport (L x W x H)	(optional working width 7 ft 10 i	n (9,200 x 2,550 x 3,000 mm) n: 30 ft 2 in x 9 ft 10 in x 9 ft 10 in (2,990 x 3,000 mm))			

¹⁾ The maximum working depth may deviate from the value indicated due to tolerances and wear

²⁾ AdBlue® is a registered trademark of the German Association of the Automotive Industry (VDA)



WR	240 X	WR 250 X		
EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f / CN NR Stage 4	No EU regulation / US EPA Tier 2	EU Stage 5 / US EPA Tier 4f	
	(2,400 mm)	7 ft 10 in (2	•	
) - 510 mm)	0 - 22 in (0	,	
4 π 10 In I	1,480 mm)	4 ft 10 in (1	,480 mm)	
Cun	nmins	Cater	pillar	
QSX 15	X-15	C18 A		
	6	6		
	00 rpm: 0 HP / 608 PS	at 2,100 rpm: 571 kW / 766 HP / 777 PS	at 1,950 rpm: 563 kW / 755 hp / 766 PS	
at 1,900 rpm: 455 kW / 610 HP / 619 PS		at 1,800 rpm: 571 kW / 766 HP / 777 PS	at 1,700 rpm: 563 kW / 755 HP / 766 PS	
915.4 in³ (15 l)	909.3 in ³ (14.9 l)	1,104.5 in ³ (18.1 l)	1,104.5 in ³ (18.1 l)	
31.7 gph 15.9 gph (120 l/h 60 l/h)	30.4 gph 14.5 gph (115 l/h 55 l/h)	37,5 gph 18,5 gph (142 l/h 70 l/h)	38.8 gph 19 gph (147 l/h 72 l/h)	
≤110 dB(A) ≥77 dB(A)	≤109 dB(A) ≥73 dB(A)	≤110 dB(A) ≥74 dB(A)	≤112 dB(A) ≥79 dB(A)	
		4 V		
		4 V		
396 gal (1,500 l)	365 gal (1,380 l)	396 gal	1,500)	
_	26 gal (100 l)			
	9 1	ıl (320 l)		
	_	al (500 l)		
	251 g	al (950 l)		
	0 (00 %) : (7.6 %)	(0.040.4.1.40.4.1.41.)		
	•	(0 - 210 m/min (12.6 km/h)) 8°		
		8° in (400 mm)		
	арргох. то			
		L-26		

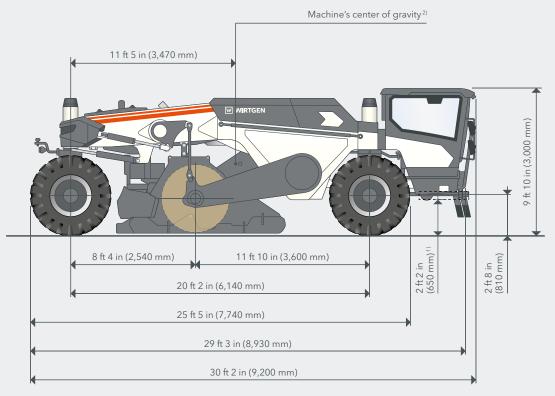
30 ft 5 in x 9 ft 10 in x 9 ft 10 in (9,270 x 3,000 x 3,000 mm)

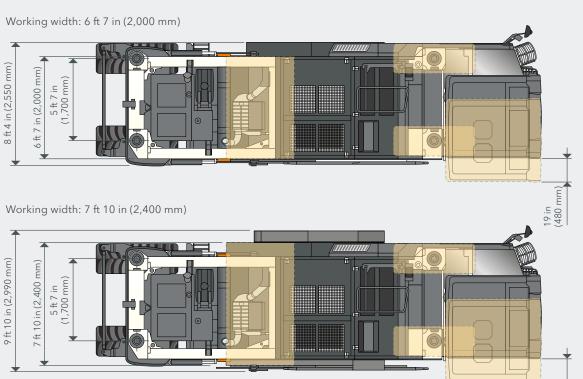
ase machine weight nladen weight of machine with standard equipment and without perating agents Operating weight, CE 1) Maximum operating weight (full tanks, full range of equipment) Veight of filling media Vater Idditional water tank uel (6.9 lbs/gal (0.83 kg/l)) dBlue® / DEF 2) dditional weight Machine operator and tools Machine operator 5 pick buckets		EU Stage 5 / US EPA Tier 4f 52,470 lbs (23,800 kg) 54,013 lbs (24,500 kg) 61,509 lbs (27,900 kg) s (380 kg) -	
nladen weight of machine with standard equipment and without perating agents Departing weight, CE 1) Maximum operating weight (full tanks, full range of equipment) Veight of filling media Vater Idditional water tank uel (6.9 lbs/gal (0.83 kg/l)) IdBlue® / DEF 2) Idditional weight Machine operator and tools Machine operator	53,352 lbs (24,200 kg) 60,627 lbs (27,500 kg) 838 lbs	54,013 lbs (24,500 kg) 61,509 lbs (27,900 kg) s (380 kg)	
perating agents Operating weight, CE 1) Maximum operating weight (full tanks, full range of equipment) Veight of filling media Vater dditional water tank uel (6.9 lbs/gal (0.83 kg/l)) dBlue® / DEF 2) dditional weight Machine operator	53,352 lbs (24,200 kg) 60,627 lbs (27,500 kg) 838 lbs	54,013 lbs (24,500 kg) 61,509 lbs (27,900 kg) s (380 kg)	
Maximum operating weight (full tanks, full range of equipment) Veight of filling media Vater Idditional water tank Idditional weight (0.83 kg/l)) IdBlue® / DEF ²⁾ Idditional weight Iachine operator and tools Machine operator	60,627 lbs (27,500 kg) 838 lbs	61,509 lbs (27,900 kg) s (380 kg)	
Veight of filling media Vater dditional water tank uel (6.9 lbs/gal (0.83 kg/l)) dBlue® / DEF ² dditional weight lachine operator and tools Machine operator	838 lbs	s (380 kg) –	
/ater dditional water tank uel (6.9 lbs/gal (0.83 kg/l)) dBlue® / DEF ²⁾ dditional weight lachine operator and tools Machine operator		-	
dditional water tank uel (6.9 lbs/gal (0.83 kg/l)) dBlue® / DEF ²⁾ dditional weight lachine operator and tools Machine operator		-	
uel (6.9 lbs/gal (0.83 kg/l)) dBlue® / DEF ²⁾ dditional weight lachine operator and tools Machine operator	1,521 lb _	-	
dBlue® / DEF ²⁾ dditional weight lachine operator and tools Machine operator	1,521 lb –		
Idditional weight Machine operator Machine operator	-	os (690 kg)	
Machine operator Machine operator		176 lbs (80 kg)	
Machine operator			
5 pick buckets	165 lb	s (75 kg)	
	276 lbs	s (125 kg)	
Optional milling and mixing units			
Milling and mixing unit FB2400	3,197 lb	s (1,450 kg)	
Reinforced rotor housing FB2400		-	
Optional milling and mixing rotors			
DURAFORCE milling and mixing rotor FB2000 HT22 PLUS LA20 with 120 WCC tools and 24 picks D22	221 lbs (100 kg)		
DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA25 with 128 WCC tools and 24 picks D22	221 lbs	s (100 kg)	
DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA20 with 139 WCC tools and 24 picks D22		-	
DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA30x2 with 184 WCC tools and 24 picks D22		-	
Iternative to standard injection system			
Single injection system: injection system with VARIO injection bars for water (211 gal/min (800 l/min)) or bitumen emulsion (211 gal/min (800 l/min))	1,080 lb	os (490 kg)	
Double injection system: injection system with VARIO injection bars for water (211 gal/min (800 l/min)) and bitumen emulsion (211 gal/min (800 l/min))		-	
Double injection system: injection system with VARIO injection bars for water and bitumen emulsion (211 gal/min (800 l/min)) or foamed bitumen (1,102 lbs/min (500 kg/min))		-	
Single injection system: injection system with injection bar for water (476 gal/min (1,800 l/min))	926 lbs	s (420 kg)	
dditional equipment			
Rear storage compartment, large	176 lb	s (80 kg)	

¹⁾ Machine weight, plus half the weight of all operating agents, tools, machine operator; no additional options ²⁾ AdBlue[®] is a registered trademark of the German Association of the Automotive Industry (VDA)

	WR 240 X		WR 2	50 X
EU Stage 3a / US EPA Tie	er 3 EU Stage 5 / US EPA Tie CN NR Stage 4	er 4f / No EU regulati	on / US EPA Tier 2	EU Stage 5 / US EPA Tier 4
63,934 lbs (29,000 kg	65,257 lbs (29,600 k	(g) 67,792 lb	s (30,750 kg)	68,454 lbs (31,050 kg)
66,139 lbs (30,000 kg			s (31,700 kg)	70,548 lbs (32,000 kg)
76,941 lbs (34,900 kg	78,264 lbs (35,500 k	(g) 80,469 lb	s (36,500 kg)	81,130 lbs (36,800 kg)
		1,102 lbs (500 kg)		
2,745 lbs (1,245 kg)	2,524 lbs (1,145 kg	2,094 lbs (950 kg)	2,745 lbs (1 245 kg)
2,743 lbs (1,243 kg)	2,324 lbs (1,143 kg) 221 lbs (100 kg)	3)	2,743 IDS (
		165 lbs (75 kg)		
		277 lbs (125 kg)		
		-	F07 ll /	220 >
	-		507 lbs (230 kg)
		_		
		-		
	254 lbs (115 kg)		-	
	_		331 lbs (150 ka)
			,	3,
		00/11/4001		
		926 lbs (420 kg)		
		1,698 lbs (770 kg)		
		3,351 lbs (1,520 kg)		
		5,551 185 (1,520 kg)		
		904 lbs (410 kg)		
		(ng/		
		176 lbs (80 kg)		
		926 lbs (420 kg)		

SIDE VIEW / TOP VIEW WR 200 X



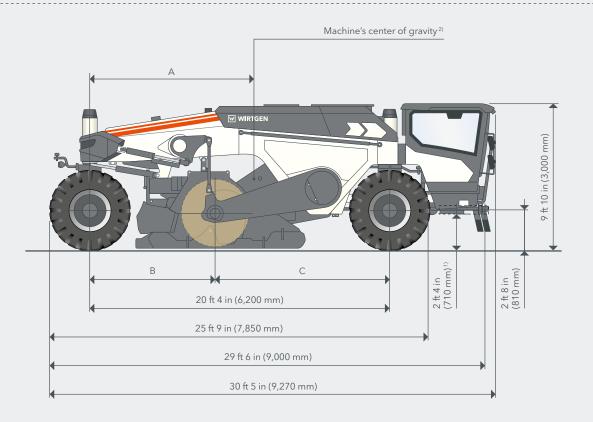


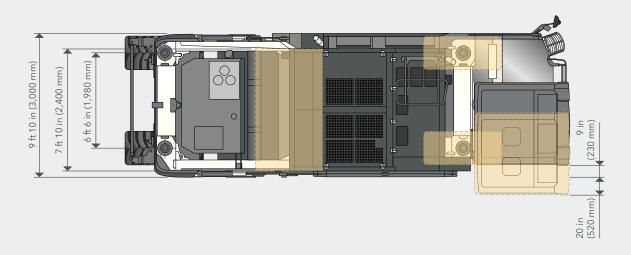
19 in (480 mm)

¹⁾ With injection system

²⁾ Based on operating weight, CE

SIDE VIEW / TOP VIEW WR 240 X AND WR 250 X

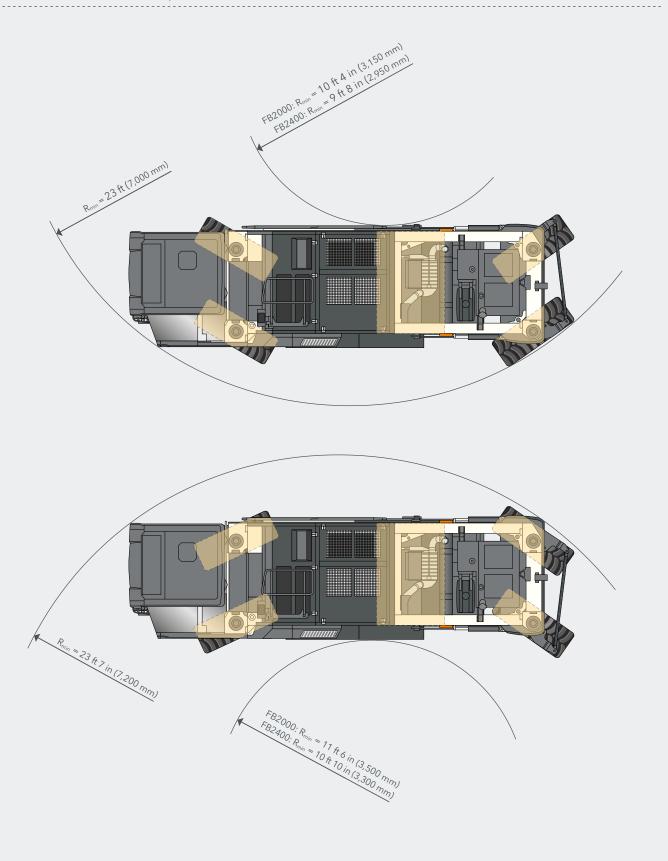




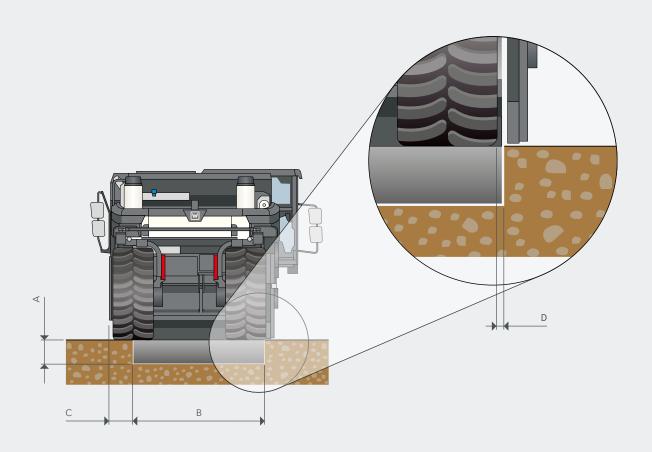
		A	В	С
WR :	240 X	11 ft 8 in (3,550 mm)	8 ft 6 in (2,600 mm)	11 ft 10 in (3,600 mm)
WR	250 X	11 ft 6 in (3,500 mm)	8 ft 4 in (2,550 mm)	11 ft 12 in (3,650 mm)

¹⁾ With injection system ²⁾ Based on operating weight, CE

TURNING CIRCLE WR 200 X, WR 240 X AND WR 250 X



REAR VIEW WR 200 X, WR 240 X AND WR 250 X



	Α	В	С	D
WR 200 X (FB2000)	20 in (500 mm)	6 ft 7 in (2,000 mm)	14.6 in (370 mm)	~-1 in (~-25 mm)
WR 200 X (FB2400)	20 in (500 mm)	7 ft 10 in (2,400 mm)	15.9 in (405 mm)	~6.9 in (~175 mm)
WR 240 X	20.1 in (510 mm)	7 ft 10 in (2,400 mm)	16.5 in (420 mm)	~1.6 in (~40 mm)
WR 250 X	22 in (560 mm)	7 ft 10 in (2,400 mm)	16.5 in (420 mm)	~1.6 in (~40 mm)

ROTOR SPEED WR 200 X, WR 240 X*)

		Ø 12.4 in (315 mm)	Ø 12.4 in (315 mm)	Ø 14 in (355 mm)	
	Engine speed	Ø 14 in (355 mm) Ø 15.7 in (400 mm)	Ø 15.7 in (400 mm) Ø 14 in (355 mm)	Ø 15.7 in (400 mm) Ø 12.4 in (315 mm)	
X 00		108 rpm	137 rpm	154 rpm	
WR 200 X		117 rpm	149 rpm	168 rpm	
		127 rpm	161 rpm	181 rpm	
	Engine speed	Ø 15.7 in (400 mm) Ø 12.4 in (315 mm) Ø 14 in (355 mm)	Ø 12.4 in (315 mm) Ø 15.7 in (400 mm) Ø 14 in (355 mm)	Ø 14 in (355 mm) Ø 15.7 in (400 mm) Ø 12.4 in (315 mm)	
X 0:		108 rpm	137 rpm	154 rpm	
WR 240 X		120 rpm	153 rpm	172 rpm	
		133 rpm	169 rpm	190 rpm	

 $[\]ensuremath{^{\star)}}$ The rotor speed depends on the selected diesel engine speed

ROTOR SPEED WR 250 X*)

			Ø 12.4 in (315 mm)	Ø 12.4 in (315 mm)		
	Gear shift for rotor gearbox	Engine speed	Ø 14 in (355 mm) Ø 15.7 in (400 mm)	Ø 15.7 in (400 mm) Ø 14 in (355 mm)		
			87 rpm	111 rpm		
	WR 250 X			97 rpm	124 rpm	
WR 250 X			108 rpm	137 rpm		
			129 rpm	164 rpm		
			145 rpm	184 rpm		
			160 rpm	203 rpm		

 $[\]ensuremath{^{\star)}}$ The rotor speed depends on the selected diesel engine speed

	WR 2	200 X	WR 2	240 X	WR 2	50 X
STANDARD EQUIPMENT	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f / CN NR Stage 4	No EU Regulation / US Epa Tier 2	EU Stage 5 / US EPA Tier 4f
Basic Machine						
> Base machine with engine						
> Engine cooling system with temperature-controlled fan speed					-	
> Engine load limitation regulator enables the machine to be operated at the power limit						
 Maximum utilization of engine power in the low engine speed range - thanks to smart engine speed management 				-		-
> Automatic stop feature of the diesel engine						
> Lockable engine cover with built-in sound insulation package						
> Air compressor system, max. 116 psi (8 bar)						
> Maximum power transmission to the milling / mixing ro- tor via power belt drive with automatic V-belt tensioner						
> Up to nine different rotor speeds - combination of three engine speeds and three changeable V-belt pulley arrangements			•	-	_	_
> Up to twelve different rotor speeds - combination of 3 engine speeds and 2 changeable V-belt pulley arrangements and a rotor transmission that can be switched to two stages	-	_	_	_		
> Universal DURAFORCE milling and mixing rotor with highly wear-resistant HT22 quick-change toolholder system		-	•	-	-	
> Bolted, easily replaceable edge ring segments made of highly wear-resistant steel						
> Power-controlled lowering speed of the milling / mixing rotor in positioning mode					•	
> Stepless working depth adjustment by lowering or raising the complete rotor						
Variable mixing chamber adjustment depending on the working depth: larger mixing chamber for large working depths, smaller mixing chamber for small working depths	•	•	•		•	
> Adjustable contact pressure of the rear rotor housing flap - supported by ACTIVE REAR DOOR FLOAT to optimize the material flow		•	•	-	•	
> Synchronous rotation or counter-rotating mode possible, depending on working direction						
> Hydraulically adjustable front rotor housing flap with crusher bar						
> Basic machine with integrated water tank and free view of the right rotor housing edge				•	•	-
> For working right up to the edges, the right wheels are within the milling/ mixing width						
Milling and Mixing Unit						
> Standard rotor housing FB2000			_	_	_	_
> Standard rotor housing FB2400		_				
Milling and Mixing Rotor > DURAFORCE milling and mixing rotor FB2000 HT22 PLUS LA20 D22 with 144 picks			_	_	_	_
> DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA20 D22 with 163 picks	-	_			_	-
> DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA30x2 D22 with 208 picks	_	_	_	_		
Machine Control and Leveling System						
> Intuitive, large HD touch main display for optimum process monitoring and display of all machine operating states						
> WIRTGEN GROUP COPILOT - smart operator support and digital machine instructor						
MIX ASSIST for pre-defined, individualized and efficient work processes						
> Speed control function ACTIVE SPEED CONTROL holds the machine feed values defined by the machine operator				-	•	
> AUTOMATIC REVERSE function for faster change in travel direction						

	WR 2	200 X	WR :	240 X	WR 250 X	
STANDARD EQUIPMENT	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f / CN NR Stage 4	No EU Regulation / US Epa Tier 2	EU Stage 5 / US EPA Tier 4
Machine Control and Leveling System						
> Automatic function for positioning and end of cut process						
> Self-explanatory diagnostic technology with continuous function monitoring						
> Separate CAN bus systems for increased machine reliability						
> Transverse tilt display						
Operator's Platform						
> Roll-over protection system (ROPS and FOPS) integrated in the cab frame						
> Safety seat belt as support system for the operator						
> Comfortable, high-quality operator's cabin with flexible mountings, roof hatch and vent window on the right for ventilation		•				
> Recirculating and fresh air filters can be changed without tools						
> Ergonomic, air-cushioned operator's seat						
> User-friendly working environment with intuitively laid out controls on the respective arm consoles						
> Automatic air conditioner, heater and radio						
> LED working lights integrated in the operator's cabin roof						
> Steering operation either by steering wheel or equiva- lent finger-tip steering in the left arm console						
> Large windows with an excellent view of the respective work area and built-in windshield wipers						
> Mirrors on right and left in the front area of the machine						
In order to provide an ideal view over the zero edge, the operator's cabin can be shifted over the right-hand side of the machine	-				-	
> Reverse assist with graphic auxiliary lines in the camera image						
> 90° revolving operator's seat						
> Folding ladder to access the operator's platform	_	_				
> Various shelves and storage compartments as well as 12 V and USB type A/C sockets						
> Rear view camera with graphic reverse assistant						
Track Unit and Height Adjustment			1			
> Four different steering modes for easy maneuvering with a minimum turning radius						
> Powerful all-wheel drive for maximum traction						
> 4-way oscillation with lifting column concept for opti- mum cross-country mobility and ground clearance						
Miscellaneous						
> European type certification, EuroTest mark and CE conformity						
> Comprehensive LED lighting for the working area and the surroundings						
> Extensive safety package with 3 EMERGENCY STOP switches						
> "Welcome-and-Go-Home-Light" with LED lighting in the ladder area						
> Comprehensive tool kit in lockable storage compartment						
> Standard painting in RAL 9001 (cream)						
> John Deere Operations Center: Digital solutions for optimizing processes, machines, and services						
> Storage compartment at the rear of the machine for tool						

	=	Stand	lard	equi	pm	ent
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⁼ Standard equipment, can be replaced with optional equipment if desired
= Optional equipment

	WR 2	200 X	WR 2	WR 240 X		50 X
OPTIONAL EQUIPMENT	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f / CN NR Stage 4	No EU Regulation / US Epa Tier 2	EU Stage 5 / US EPA Tier 4f
Milling and Mixing Unit						
> Standard rotor housing FB2400			_	_	_	_
> Reinforced rotor housing FB2400	_	_	_	_		
Milling and Mixing Rotor						
> DURAFORCE milling and mixing rotor FB2000 HT22 PLUS LA20 with 120 WCC tools and 24 round-shank picks D22			_	_	_	_
> DURAFORCE Milling and mixing rotor FB2400 HT22 PLUS LA25 D22 with 152 round-shank picks			-	-	-	-
> DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA25 with 128 WCC tools and 24 round-shank picks D22			_	_	_	_
> DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA20 with 139 WCC tools and 24 round-shank picks D22	_	_			-	-
> DURAFORCE milling and mixing rotor FB2400 HT22 PLUS LA30x2 with 184 WCC tools and 24 round-shank picks D22	_	_	_	_		
Injection System / Addition of Binders						
> Single spraying system with VARIO spraying bars for water or bitumen emulsion (211 gal/min (800 l/min))						
> Single spraying system for water (476 gal/min (1,800 l/min))						
> Dual spraying system with VARIO spraying bars for water (800 l/min) and bitumen emulsion (800 l/min)	_	_				
> Dual spraying system with VARIO spraying bars for water and bitumen emulsion (211 gal/min (800 l/min)) or foamed bitumen (1,102 lbs/min (500 kg/min))	_	_				
> A filter unit for VARIO spraying system for water or bitumen emulsion (211 gal/min (800 l/min))						
> Two filter units for dual VARIO spraying system for water and bitumen emulsion (211 gal/min (800 l/min))	_	_				
> One Filter unit for spaying unit for water (476 gal/min (1,800 l/min))						
> Hose connection for spraying systems, optional for tanker or Camlock						
Machine Control and Leveling System						
> Cross-slope sensor						
Operator's Platform						
> Rear view camera with graphic reverse assistant, four additional cameras, and an extra 12-inch HD touch color display						

	WR 200 X		WR 240 X		WR 250 X	
OPTIONAL EQUIPMENT	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f	EU Stage 3a / US EPA Tier 3	EU Stage 5 / US EPA Tier 4f / CN NR Stage 4	No EU Regulation / US Epa Tier 2	EU Stage 5 / US EPA Tier 4f
Miscellaneous						
> Painting in one special color (RAL)						
> Painting in two special colors (RAL)						
> Version without JDLINK						
> Pre-fitting for WPT Stabilizing and AutoTrac™						
> Large storage compartment at the rear of the machine for tool and up to 20 toolboxes						
> USB interface for retrieving the job data						
> WPT (WIRTGEN GROUP Performance Tracker) Stabilizing						
> WPT (WIRTGEN GROUP Performance Tracker) Stabilizing and AutoTrac TM (satellite-enabled steering system)						
> AutoTrac™ satellite-based steering system						
> High-pressure water cleaner at 2,176 psi (150 bar) and 4 gal/min (15 l/min)						
> Additional water tank with a capacity of 950 liters	_	_				
> Battery-operated hydraulic unit						
> Milling drum rotation device						
> Pneumatic hammer with pick ejector and driver mount						
> Hydraulic round-shank pick ejector						
> Additional side storage compartment for 8 toolboxes						
> "Go to tool change" control unit for rotor tool exchange						
> Diesel tank filling pump with 24 ft 6 in (7.50 m) suction hose						
> Wiggins fast-fill system for diesel refuelling						
> Suction hose for hot bitumen 3", 4000 LG - connections optionally in tank truck or Camlock type	_	_				
> Suction hose for water or emulsion 3", 5000 LG - connections optionally in tank truck or Camlock type						
> Push bar (additional)	_	_				
> Connection pipe of the intake manifolds for dual spraying system - connections optionally in tank truck or Camlock type	-	_				
> Support arm for holding the push bar and feed lines whilst changing tankers						
> Storage compartment for push bar	_	_				
> Additional bitumen filter with cleaning housing	_	_				
> Suction hose for water 3", 20000 LG - connections optionally in tank truck or Camlock type	_	_				
> Central lubrication system						

🔳 = Standard	equipment
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