Wirtgen l The next generation of the WR series delivers higher mixing performance and quality

**At Bauma, Wirtgen is presenting the latest generation of the WR series, developed by the company especially for cold recycling and stabilisation applications. The machines impress with an optimised operating concept and consistently high productivity and mixing quality. With the new operator’s cabin and a revised and improved operating concept, the WR series machines enable the realisation of particularly efficient and cost-effective workflows.**

**Powerful and extremely efficient machines**

The WR series machines are the ideal choice for a variety of application scenarios ranging from cold recycling to the stabilisation of a wide range of construction materials, in processes such as soil stabilisation or consolidation in road construction.

The WR series offers a range of models that fulfil a variety of requirements. For instance, the compact dimensions and low machine weight of the WR 200 X make it particularly easy to transport 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.

All three models offer working widths of up to 2,400 mm. Depending on the model, the engine power output is between 305 and 571 kW. The improved Duraforce milling and mixing rotor enables consistently high mixing quality and productivity under all working conditions and contributes to the minimisation of fuel consumption, CO2 emissions and wear.

**Ergonomic operating concept combined with the WIRTGEN GROUP CoPilot**

The most important aspect of the new cold recyclers and stabilisers is their revised and improved operating concept. A new multifunction joystick, fingertip control and ergonomic height adjustment via the multifunction armrest ensure maximum ease of use. In addition to digital process monitoring, the large machine control panel display offers application-relevant displays and the WIRTGEN GROUP CoPilot. This digital assistance system helps machine operators to exploit the full potential of their machine, provides suggested courses of action during the work in progress and offers interactive tutorials.

**The operating concept offers interactive recommendations for action and self-training tutorials**

The tutorials help operators to familiarise themselves with the machine and its functions. Animations displayed on the machine’s control panel quickly enable the operator to exploit the full potential of the machine. Explanations of the steering modes, the functions of the multifunction joystick and transport and safety instructions are also provided. Operators are offered visualised recommendations for action and their effect while interacting directly with the machine. The system guides operators step by step through each scenario, detects their input commands and the machine status and then automatically proceeds to the next process step.

**Digital solutions for increased efficiency**

In addition, Wirtgen has attached particular importance to increasing overall efficiency with the aid of digital assistance systems and digital process monitoring. The AutoTracTM steering assistance system steers the machine accurately on the basis of a previously calculated reference strip and a specified overlap of adjacent strips. The Automatic Reverse function enables rapid reversal of the travel direction at the press of a button. With the MIX ASSIST digital assistance system, various automated functions can be individually configured and conveniently initiated simply by pressing a button. It also enables operators to set up and save a sequence of working steps as an automated process for later use when needed. When using this, the system rearranges the camera images displayed to set a focus on the currently relevant working area. This reduces the operator’s workload and simultaneously improves machine productivity.

The Wirtgen Group Performance Tracker Recycling, in short WPT Recycling, generates seamless documentation of every project. It records all relevant, location-specific construction site parameters and documents them in a detailed field report.

**The WRC 240 X achieves output rates of up to 600 tons per hour**

In addition to the WR series, Wirtgen is also showing the Rock Crusher WRC 240 X. This machine crushes coarse rocks and stones as found in hard packed stone pavement layers and stony ground and homogeneously mixes the resulting material in a single pass. With a working width of 2,320 mm and a working depth of up to 510 mm, the WRC 240 X can achieve output rates of up to 600 tons per hour.

The heavy-duty crushing and mixing rotor with HT18 toolholders and tools developed especially for the crushing process achieves ideal results in stony ground. The crushing tools have extra-large, extremely impact-resistant carbide cutting edges and holder bases with high-tensile steel wear protection. This guarantees high utilisation rates and process reliability, even in particularly demanding applications. In addition to crushing rocks and stones with edge-lengths of up to 300 mm and a uniaxial compressive strength of up to 200 MPa, the machine can also add and mix water and binding agents into the crushed material during the same pass, e.g. to produce base layers.

**The WRS 240 X can spread binding agents in challenging terrain**

The operator’s platform of the WR 240 X has been chosen for the new WRS 240 X model and a binding agent spreading unit with a container capacity of 5.5 m³ has been integrated in the machine for dust-reduced spreading of binding agents such as lime or cement. The WRS 240 X is particularly suitable for deployment on motorways, industrial estates and in nature reserves with strict emission regulations and also offers outstanding all-terrain mobility. Thanks to this, binding agents can be spread reliably and precisely, especially on soils with poor load-bearing properties in challenging terrain. The WRS 240 X offers the further option of pushing a binding agent silo ahead of the machine. The binding agent silo can be kept permanently filled on load bearing ground.

**The WR series will be available around the world from summer 2025**

With the new WR series models, Wirtgen offers cutting-edge technology for all cold recycling and stabilisation applications. The combination of an innovative operating concept, high performance and digital assistance systems guarantees easy handling, highest mixing quality, and low operating costs.

Photos:

   
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The WR series machines are the ideal choice for a variety of application scenarios ranging from cold recycling to the stabilisation of a wide range of construction materials, in processes such as soil stabilisation or consolidation in road construction.

  
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In this next generation of the WR series Wirtgen relies on a revised and improved operating concept that enables particularly efficient and cost-effective operations.

  
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The binding agent spreading unit integrated in the WRS 240 X has a container capacity of 5.5 m³ and offers dust-reduced spreading of binding agents such as lime or cement.

Please note: The photographs shown here are only previews. If you wish to publish them in other media, please download the higher resolution (300 dpi) versions from the Wirtgen Group websites.

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