Wirtgen | W 220 XFi cold milling machine offers broader performance spectrum

The newest model of the Wirtgen F-Series large milling machines is now available

Equipped with an efficient John Deere engine and multiple features for the active protection of the environment, the W 220 XFi combines sustainability and productivity. In all applications, from surface layer rehabilitation to complete asphalt removal, the specific carbon emissions are low and the milling performance customarily high. Plus, in automatic mode, Mill Assist selects the operating strategy with the most favourable balance between milling performance and operating costs. The Multiple Cutting System for milling widths between 2.20 m and 3.80 m makes it easy to quickly switch milling drums and milling drum assemblies. The machines are available around the world in countries that follow the EU Stage 5 / US Tier 4 Final exhaust emission standards.

Engine technology from John Deere combined with Dual-Shift powershift transmission

This large milling machine from the ‘Xtended F-Series’ with a standard working width of 2.20 m comes equipped with the most environmentally friendly engine technology on the market. The 18-litre John Deere JD18L engine provides its maximum power of 627 kW even at engine speeds of only 1,500 rpm. It has been specially designed to meet the requirements of cold milling, delivering high torque under all load conditions. Thanks to the Dual-Shift transmission, the high torque can be used at low rpm for optimal milling performance. Even at low engine speeds, high milling drum rotation speeds are possible. The engine meets exhaust emission standards without requiring DEF (diesel exhaust fluid / AdBlue).

Increased milling efficiency with Mill Assist

The Mill Assist machine control system increases milling performance while simultaneously reducing diesel and water consumption as well as pick wear. The system controls engine speed automatically according to the needs of the operator. The extensive operating speed range combined with the Dual-Shift powershift transmission facilitates a wide range of applications. At lower speed ranges, fuel consumption, noise emissions, and pick wear can be reduced significantly. At the upper speed range, an optimum milling pattern can be attained even over large areas.

The operator can also select one of three operating strategies: ‘ECO’, ‘performance-optimised’, or ‘milling pattern quality’. With the latter, for example, it is possible to pre-define the required milling pattern quality incrementally, from coarse to very fine, at the press of a button.

**Digital assistance systems improve sustainability**

The Mill Assist machine control system and the Wirtgen Group Performance Tracker Milling (WPT Milling) assist operating personnel and increase milling efficiency. These systems have already delivered clear proof of their potential in the other F-Series cold milling machines. With the W 220 XFi, these systems have been further developed to include a CO2 emissions display. Both the current emissions and the specific carbon emissions in relation to milling mass can be easily viewed on the control screen. The automatically-generated WPT report can also include the CO2 emissions of the entire project in addition to other construction-relevant data—an expansion of the data foundation used in jobsite analysis and documentation. Different construction projects can now be compared in terms of carbon emissions, allowing conclusions to be drawn for optimising the next project.

Photos:

  
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The W 220 XFi cold milling machine from Wirtgen offers high productivity and low specific carbon emissions in all applications.

  
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The Mill Assist machine control system automatically keeps the speed of the John Deere JD18L engine as low as possible.

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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