



Press release
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Energy Efficiency Package from WAGNER: Up to 40% less energy consumption in powder coating systems

Rising energy prices and the call for more sustainable production processes make it clear that anyone operating powder systems today cannot ignore the issue of energy efficiency. J. Wagner GmbH has a convincing answer to this: the Energy Efficiency Package (EEP), which is integrated into all WAGNER powder coating systems with monocyclone.

Energy consumption in powder coating systems results largely from the suction in the booth, piping and recovery system. The fan motor in the final filter, which can reach outputs of over 30 kW depending on the size of the system, plays a decisive role. This is precisely where the EEP comes in - with special air guidance and optimized components that significantly reduce energy requirements.

Less resistance, more power

At the heart of the concept is the specially developed EEP **monocyclone**. It separates the powder-air mixture, directs the exhaust air to the final filter and leads the powder back to the guns. Its flow-optimized design results in significantly lower pressure losses than with conventional systems. As a result, the **final filter** requires a smaller fan motor. Up to 40 percent less power consumption is possible without sacrificing suction performance.

The flow-optimized monocyclone also improves powder recovery: the separation efficiency is increased by one to two percent, which means that more powder can be recovered and saved.

The specially shaped **pipe** between the booth and monocyclone also helps to minimize the pressure loss in the system. The special shape, which differs from conventional piping on the market, significantly reduces powder deposits and powder wear. This protects the powder, improves the recovery quality and ensures a stable, clean color change process. Manual cleaning of the monocyclone interior during color change is generally no longer necessary, which further shortens the color change process.



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Even more economical with EEP Plus

If you want to get even more out of the system, you can choose the optional EEP Plus extension. The system automatically detects when there are no components hanging on the conveyor - so-called hanging gaps - and then switches to ECO mode. During this time, the fan motor runs at a reduced speed, which further reduces energy consumption. As soon as components are detected again, the system starts up automatically. Depending on the production process, an additional 10 to 30 percent of energy can be saved in this way - without any intervention by the operating personnel.

Technology that pays for itself: With the Energy Efficiency Package and the EEP Plus extension, WAGNER offers a pioneering solution for energy-efficient powder coating. For system operators, this results in a clear economic advantage: the lower energy consumption noticeably and sustainably reduces ongoing operating costs - without compromising on process reliability or coating quality.

More information:

<https://www.wagner-group.com/en/industry/products/powder-coating/energy-efficiency-package/>

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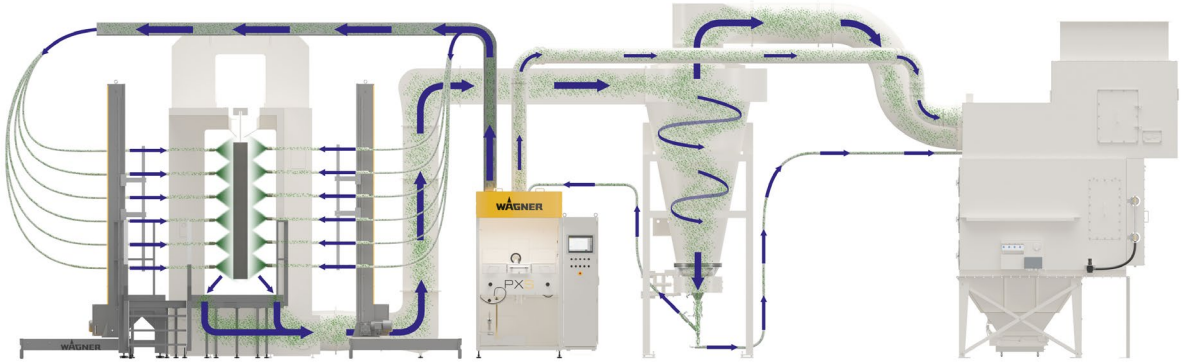
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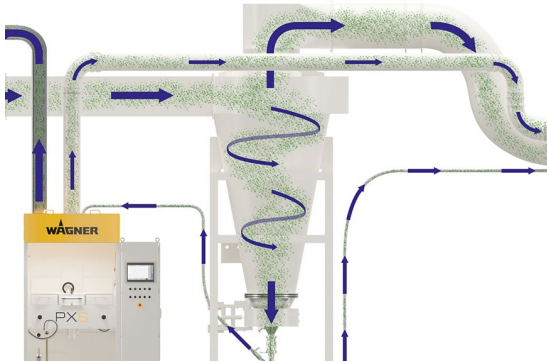
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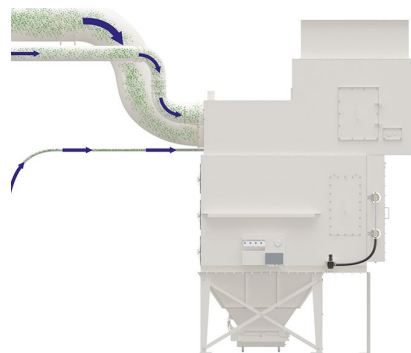
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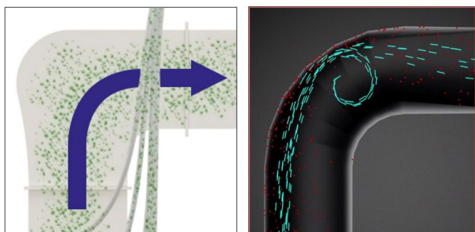
Complete powder system with Energy Efficiency Package: The optimized air flow in the system reduces the energy consumption of the final filter motor by up to 40% compared to conventional systems on the market.



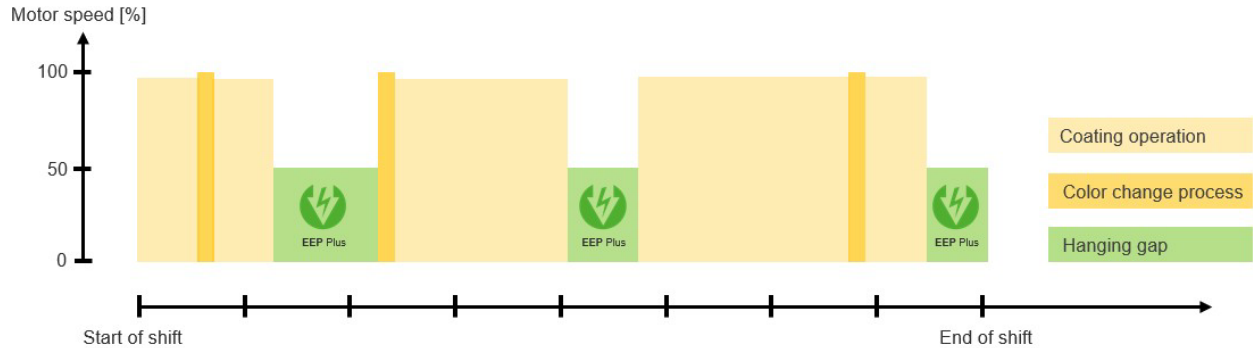
EEP monocyclone with special air guidance



EEP final filter unit



The optimized piping (left) significantly reduces powder deposits and wear compared to standard market solutions (right).



Optional EEP Plus extension: In hanging gaps, the final filter motor switches to ECO mode, which further reduces energy consumption during powder coating.

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About WAGNER

J. Wagner GmbH, Markdorf (Germany), is part of the WAGNER group of companies under the umbrella of Wagner International AG, based in Altstätten (Switzerland). WAGNER is one of the world's leading manufacturers of equipment and systems for surface coating with powder and wet coatings, paints and other liquid materials. The company's origins date back to 1947 and since then, WAGNER has been setting quality standards and offering industrial companies, craft businesses and DIY enthusiasts economical, reliable and user-friendly solutions that are characterized by high quality and pioneering technologies. The WAGNER Group is represented worldwide by approximately 2,000 employees in 20 operating companies and around 400 agencies. The WAGNER Group is owned by the Josef Wagner Foundations, which exclusively pursue non-profit, charitable goals.

More information at www.wagner-group.com