WAGNER

FLOWSENSE

PUT QUALITY ON REPEAT

Let's talk about powder coating. A technology that is proven
since decades and actually, it's just getting started with FLOWSENSE.
FLOWSENSE? It's a software masterpiece and a bunch of small sensors that do big things:
Consistent powder output from the first to the last workpiece. Reliability, measured in real time.
Put quality on repeat!

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Digital intelligence in powder coating:
Automatic control of the powder quantity enables constant coating thicknesses
with reduced powder usage. For maximum coating quality and system availability.

Flowsense takes powder feeding with injector technology to a new level

- ⊘ Fully automatic control of the powder quantity
- ⊘ Ensures constant layer thicknesses
- ⊘ Reliably reproducible results
- ⊘ Reduces the amount of powder required

As part of the Flowsense technology, each individual feeding element in the powder center is equipped with high-precision measuring sensors. The smart system constantly monitors the powder flow and adjusts it to the target value. The powder quantity is continuously adjusted and deviations are automatically corrected. This also increases the reliability of your system.

With Flowsense, you benefit from unmatched advantages:

Reliably reproducible results
Flowsense even measures and regulates the powder output in g/min - individually for each gun. The exact dosage can be saved in the recipe and is permanently reproducible. Without any manual corrections.

Significant powder savings
Thanks to the ability to adjust the powder output precisely to the target layer thickness, you can significantly reduce powder consumption and safety margins.
Example: Average system size with 600,000 m^2 coating area per year, powder price 7 €/kg. Reducing the average coating thickness from 84 to 78 µm would lead to savings of €37,800 per year.

High coating quality
Flowsense leads to constant coating thicknesses and even compensates for influences on the output caused by fluidization and fluctuating powder levels.

Predictive maintenance
The condition of the collector nozzles is automatically monitored by Flowsense and visualized in a traffic light system. This allows you to see at any time whether the coating can still achieve the desired quality. If maintenance is required, you can replace the collector nozzles in no time at all and exactly when it is actually necessary.

Reliable compliance with limit values
Due to the high consistency of the powder output, coating thickness limit values can be better adhered to. This is an important criterion that can support certification by quality associations for industrial coatings.

Simple operation
Flowsense is configured and operated on the powder center's touch-screen with intuitive user guidance. Flowsense works mainly in the background and displays relevant information automatically.

Extend the service life of your wear parts

The status of each individual gun or injector is clearly displayed on the touchscreen in a traffic light system. The request for the next wear part change only appears when it is actually necessary. This allows you to extend the service life of the nozzles to the maximum and thus reduce your ongoing operating costs.
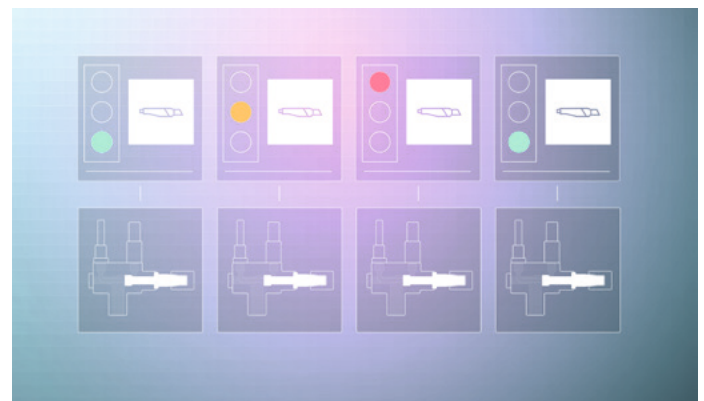
Green = System without significant wear, control is active.
Orange = Progressive wear, control is approaching the control limit. New safety nozzles should be ordered.
Red = The wear does not allow any further readjustment. The output decreases and the target layer thickness can no longer be achieved. Collector nozzles must be replaced.

Flowsense will also be integrated into the COATIFY platform which allows the intelligent visualization of your coating system. COATIFY is a web-based Internet-of-Things platform that enables you to increase transparency and process reliability in your industrial coating process and improve system availability and productivity.

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