

Application Success Stories

MWN Pulverbeschichtungs GmbH Job coating



Capacity

Retrofit

Flexibility

Application Success Stories

Installation Key Data

Parts: Job coating
Parts size: H 1'900 mm
W 1'000 mm
L 3'000 mm
Conveyor speed: v 2,4 m/min

Scope of delivery for Retrofit:

- 1 x OptiFlex® A2 (AS06-26P)
- 24 x OptiGun® GA03-P automatic gun
- 2 x OptiSelect® Pro GM04 manual gun
- 1 x OptiCenter® OC07 with
 - 26 x OptiSpray AP01.1 application pumps and
 - US07 ultrasonic sieve
- 1 x Control unit MagicControl 4.0 (CM40)
- 2 x ZA07-23 reciprocator with tilting function (positive and negative)
- 2 x XT10 horizontal axis



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Retrofit

Old:



New:



Old:



New:



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After the expansion in 2020, MWN planned a comprehensive retrofit of the MagicCylinder system from 2002. The goal was to reduce color change times, free up personnel capacity, and increase and stabilize the coating quality. For this purpose, new ZA and XT axes with tilting function to compensate for sloping components, an OptiCenter OC07 powder center with AP01.1 application pumps and the MagicControl 4.0 CM40 control system with GemaConnect were installed on the MagicCylinder.



In a second construction stage, the downstream manual coating booth was equipped with two CMA robots during operation and connected to the new OptiCenter OC07. MWN never had to interrupt production during the entire rebuild.

The manual coating personnel were retrained in robot programming, and instead of 6 employees per shift, there are now only two people working as plant operators. The personnel saved can be used in the future to build up additional work shifts.



This retrofit proves that existing installations with new application technology can continue to be used in the long term. At the same time, the range of tasks and responsibilities has become more interesting for the employees, which has a positive effect on their satisfaction.

The MagicCylinder system now achieves faster color changes, a transparent display of production performance and stable coating quality at a high level.

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