

Application Success Stories

New OptiCenter OC03 with OptiSpray AP01 pumps replaces an old MagicCenter installation



Upgrade Coating
Quality

160 Color Changes
Per Week

13,9% Powder
Savings

Application Success Stories

Layout



Old installation



New installation with OptiCenter OC03

Application Success Stories

Installation Key Data

Parts: Tailored aluminum gates - div. lengths

Powder types: All types

Scope of Delivery :

1 x OptiFlex AS06 automatic cabinet

19 x OptiStar CG12-CP gun controls

16 x OptiGun GA03-X 1700mm automatic guns

3 x OptiSelect GM03 manual guns

1 x OptiCenter OC03 powder center equipped with
19 x OptiSpray AP01 application pumps

Modification of the CM10 control to MagicControl CM30
system control

Creation of an inspection trapp on the cyclone sheath

1 x fire safety equipment CO²

*The 4x CR06 robot controls of the old installation have
been kept and were easily installed in the new cabinet.*



Application Success Stories



KSM, a tailored aluminum portals specialist, does all to achieve its high customers requirements. Thus, in 2008 the company bought a MagicCylinder booth with 18 guns equipped with the latest innovation in terms of powder management at this time, the MagicCenter. The rising demand for cost savings, the constant powder evolution and the high demands for a perfect finishing quality required by customers requested a change for a more up-to-date technology. Also, KSM has special demands concerning the powder management: inside the production more than 100 color changes per week are carried out with 160 standard colors. Additionally,



increasingly tight deadlines from the customers require a reliable coating system. Gema's OptiCenter OC03 offered the right solution for KSM and its requirements. End of 2016 KSM installed an OptiCenter OC03 inside its production line.

Benefits Gema installation:

For the coating team:

- Expected quality is achieved thanks to the integrated ultrasonic sieve inside the OC03, the AP01 application pumps and PCC mode of the new OptiStar control unit
- The recycling mode is activated at the first lifter, with the old installation at the 3rd
- There are less defects (only 3,70% of touch up needed)



- Average powder consumption per hanger decreased from 2.46kg to 2.12kg
- Thanks to the recycling, the 10% of powder savings expected have been increased to 13,90% after only 6 months of operation

For the maintenance team:

- 1 person of the maintenance team has been dedicated as "pilot" of the new equipment
- To maintain KSM's quality level, wear parts were exchanged every 15 days with the old installation. With the new OC03 only every 6 months an exchange is necessary
- The involvement of all teams in the project creates a new dynamic