

Application Success Stories

RZB Rudolf Zimmermann, Bamberg GmbH
Lighting systems



Process stability

Energy saving

Flexibility

Application Success Stories



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Installation Key Data

Parts:

Elements for lighting systems

Parts size:

H 2'000 mm

W 600 mm

L 2'000 mm

Conveyor speed:

V max. 2 m/min

Scope of delivery:

1 x OptiFlex AS06 / 12P

2 x ZA07-18 / XT10

1 x Control System ICS04 - CM-30 Magic Control

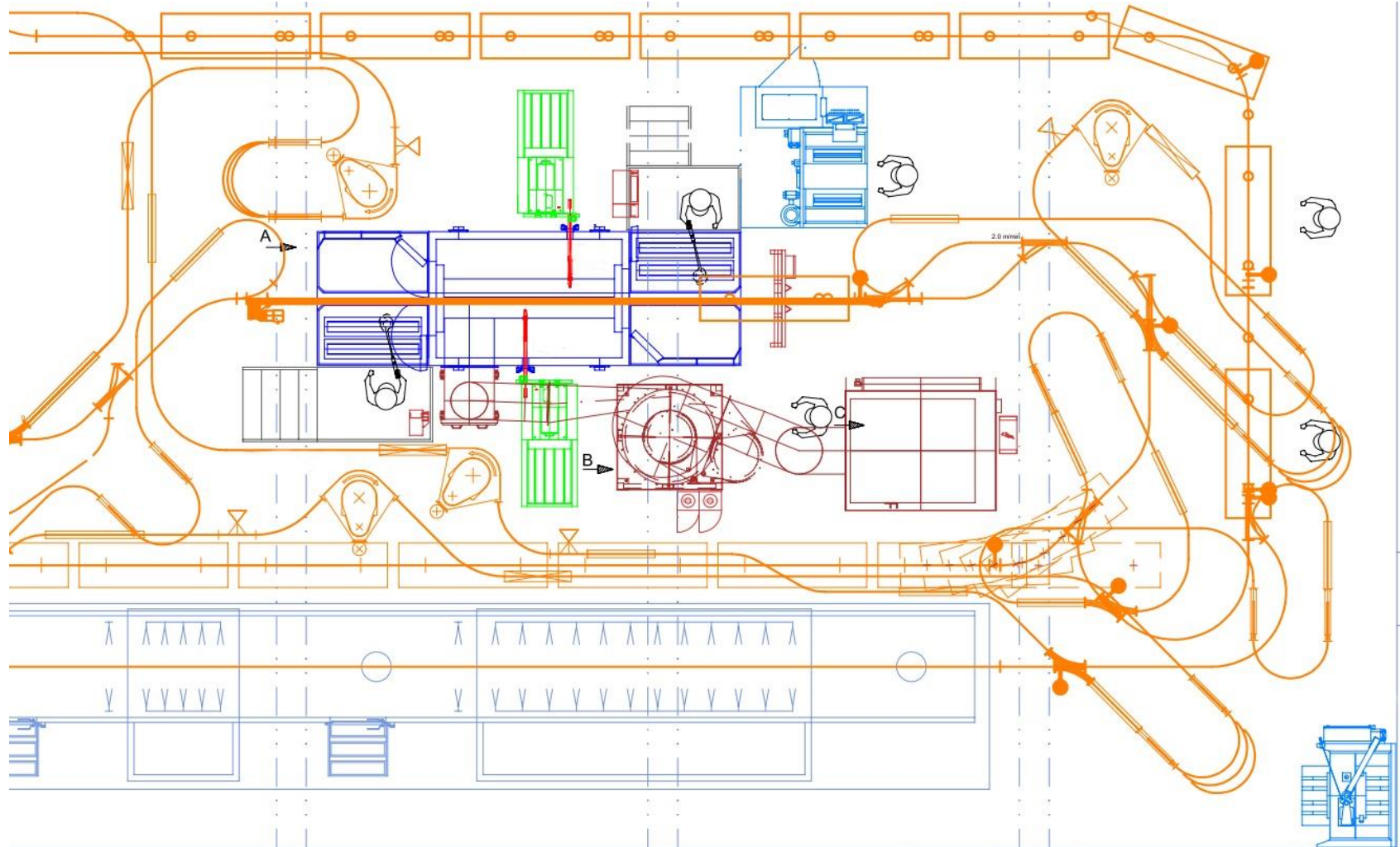
1 x Magic Compact EquiFlow BA04

1 x OptiCenter OC03 with 12 x Powder Pump AP01

1 x Ultrasonic Sieve US06



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Highly efficient product solutions, progressive LED-technology and excellent light quality "Made in Germany" are the summary of more than 75 years of lighting history. The portfolio of the family-run RZB Rudolf Zimmermann, Bamberg GmbH comprises more than 20,000 products in the fields of interior lights, outdoor lights, security lights and systems. Instead of sheet metal or plastic, die-cast aluminium or extruded aluminium-profile are primarily used to increase the energy efficiency and lifetime of high-power LEDs.



RZB Lighting began planning a new powder coating plant with the target to achieve energy and cost savings combined with high flexibility and process reliability. The state of the art powder coating technology by GEMA resulted in positive test results for the coating of heat sinks with closely arranged cooling ribs. This and the minimum powder consumption convinced the customer to place the order for the new coating plant with GEMA.

Consistently high coating quality and reproducibility was achieved through the interaction of the powder gun OptiGun, the Opticenter OC 03 with



powder pump Optispray AP 01 and the accurate object control. The new application system reduced the energy consumption of 8.53 kWh/m² coated surface by 60% to 3.38 kWh/m² coated surface. At the same time the throughput capacity was increased fourfold. Thanks to the excellent coverage of the OptiGun and excellent recovery rate of 96% of the latest generation cyclone substantial powder savings could be additionally achieved. The sum of all the improvements ensures that the new system will pay off in a short time.