

# Application Success Stories

## TRILUX - Lighting systems



Flexibility and increased  
efficiency

Automation

Savings by reducing powder  
consumption

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## Installation Key Data

**Parts:** lighting system elements

**Work piece data:** 1'800 mm (H) x 350 mm (W) x 4'000 mm (L)

**Conveyer speed:** 2,0 m/min

### **Scope of delivery:**

- 1x Booth MagicCompact® EquiFlow® BA04
- 1x OptiCenter® All-in-One OC10
- 1x MagicControl 4.0 (CM40) Control system
- 12x OptiSpray All-In-One application pump
- 10x OptiGun® GA04-P automatic guns
- 2x Control gun OptiStar 4.0 CG24-CP
- 2x Manual gun OptiSelect® Pro GM04
- 1x Ultrasonic sieve US07
- 2x Reciprocator ZA07-23 and 2x horizontal axis XT10
- 1x Cyclone EZ05-16, filter 16'000 Nm<sup>3</sup>/h with frequency converter
- 1x Waste powder BigBag, collecting the waste powder from the filter
- 1x Powder transfer pump OptiFeed PP07
- 1x Height and width recognition system
- 1x Explosion protection system STS
- 1x Objects grounding monitoring system

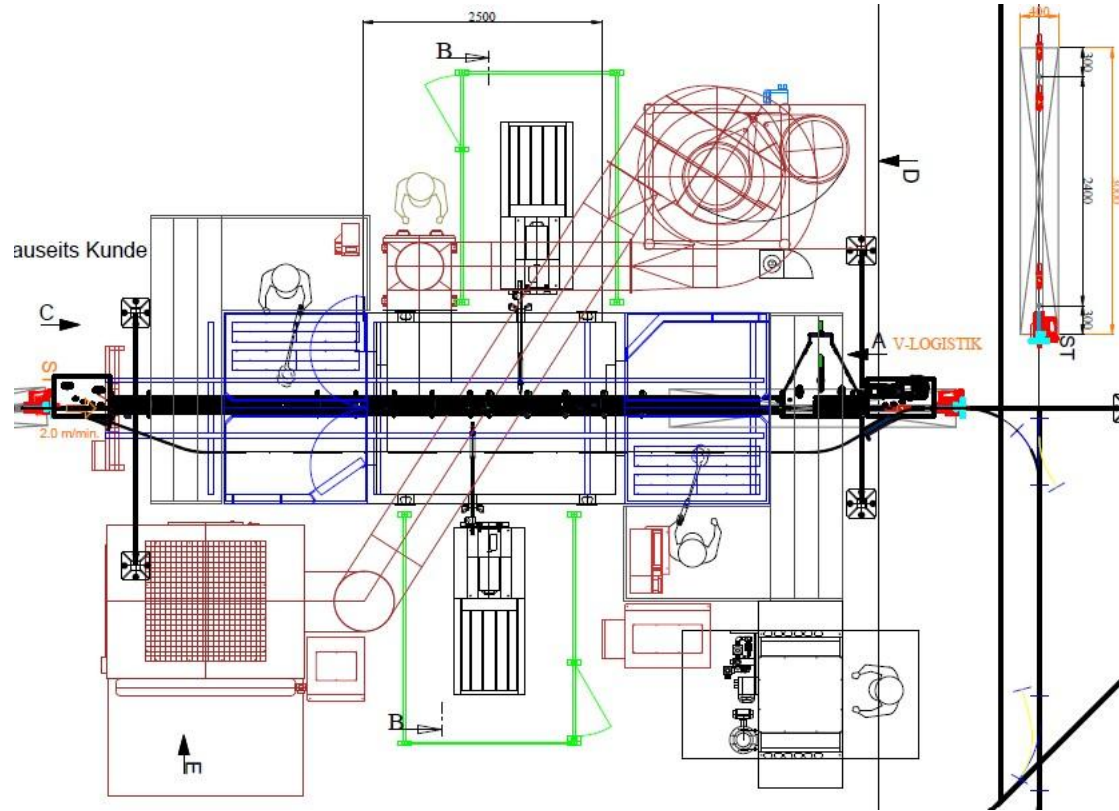
**Year of installation:** 2024



TRILUX / Poland

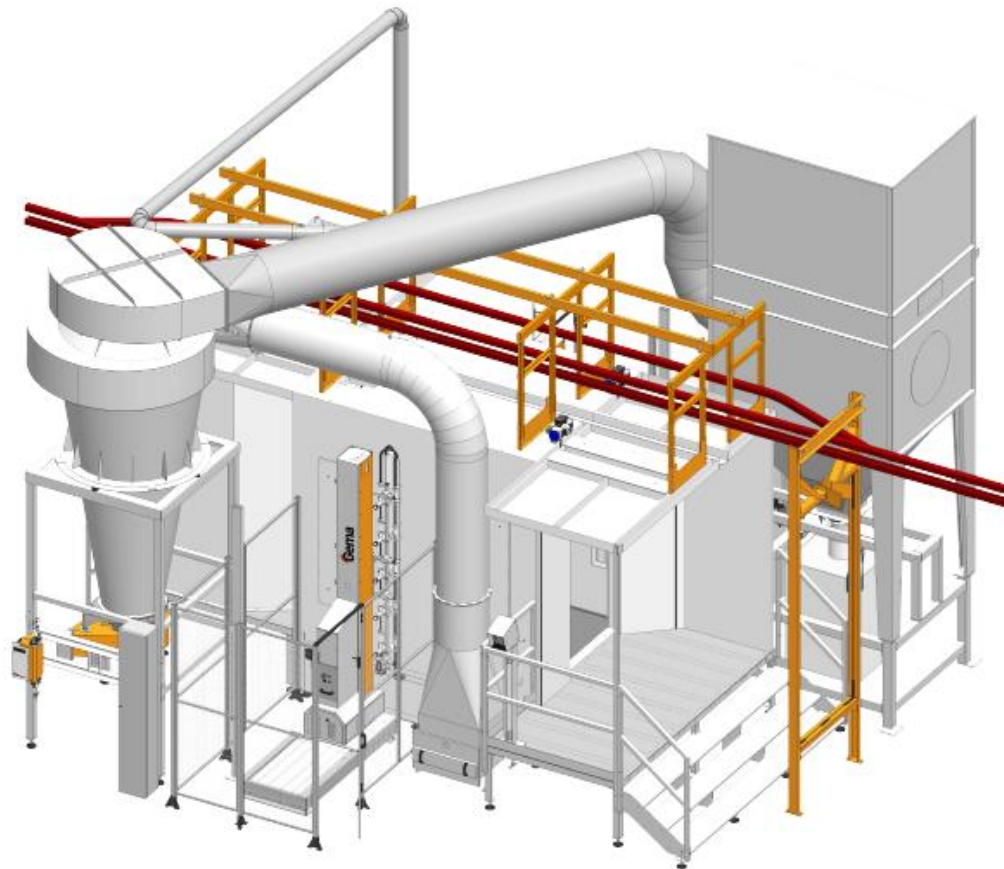
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## Layout



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**TRILUX** - the world leader in lighting technology; under this name twelve legally independent subsidiaries can be found in Austria, Belgium, Switzerland, the Czech Republic, Spain, France, Great Britain, Hungary, Italy, the Netherlands, Poland and Slovakia. "TRILUX Simplify Your Light" is the simplest and safest way to customised, energy-efficient and sustainable lighting solutions. In the dynamic and increasingly complex lighting market, customers receive optimum advice and ideal guidance for perfect light. To ensure this, TRILUX makes use of a broad portfolio of technologies and high-performance partners within the TRILUX Group and combines individual components to create customised complete solutions - always perfectly tailored to customer requirements and specific

applications. TRILUX has decided to purchase an automatic powder coating system from Gema Switzerland for quick colour change at its new factory in Świdnik, Poland. The system is equipped with a MagicCompact EquiFlow booth, which enables quick colour changes thanks to its short changeover time. It also has a powder recovery system, which reduces production costs, and - as the first one on the Polish market - an OptiCenter All-in-One OC10 powder centre. Combined with the OptiSpray All-In-One application pump, it provides the fastest response to ensure the highest painting efficiency. The booth is completed with a manual powder coating station. The entire system is controlled by the MagicControl CM40 unit, which features Industry

4.0 standards. The Gema control system is connected to the higher-level control system of the paint shop, which enables an automatic change of coating programmes and provides information about upcoming colour changes. The OptiSpray All-in-One units precisely controls the powder flow and regulates the current to below 10µA in 0.5µA steps. This allows to obtain optimal coating parameters, even for demanding powders, and uniform coating thickness in individual batches. The ground control module provides continuous monitoring of the hanger status. The entire system ensures high process quality and reduces powder consumption.

Gema powder coating line was supplied and commissioned by **P.C. Systems (PL)**.