

Application Success Stories

Thule Group – bicycle racks and holders



Flexibility and
increased efficiency



Automation

Thule Group >>



Savings through lower
powder consumption

Application Success Stories

Installation Key Data

Parts: Racks, bicycle holders

Parts size: H 1'650 mm
W 500 mm
L 850 mm

Line speed: 1,4 – 4,4 m / min

Scope of delivery: 3 parallel cabins, each:

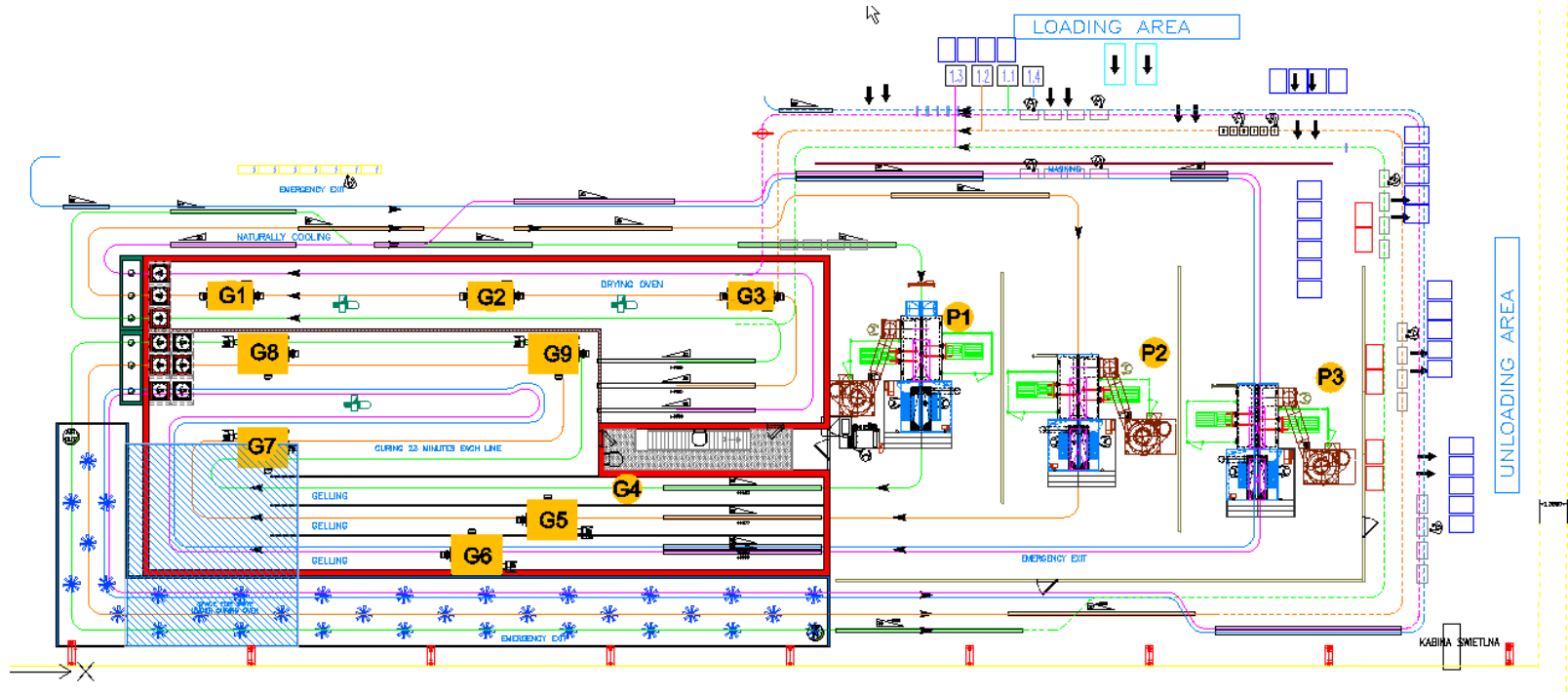
- 1x MagicCompact® EquiFlow® BA04 booth
- 1x OptiCenter® OC07 powder management
- 1x MagicControl 4.0 (CM40) master control
- 18x OptiStar® 4.0 –(CG24-CP) control units
- 16x OptiGun® GA03-P automatic guns
- 2x OptiSelect® GM04 manual guns
- 18x OptiSpray AP01.1 application pumps
- 1x ultrasonic sieve US07
- 2x reciprocators ZA07-18 on horizontal axis XT10-10
- 1x cyclone EZ05-20 and filter 20'000 m3/h
- 1x OptiFeed PP06 transfer pump
- 1x object recognition system
- 1x fire protection system STS

Installation: 2022



Application Success Stories

Layout



Application Success Stories



Thule Group is a global leader in many product categories including roof racks and boxes, hatch mounted bike racks, camera bags and bike trailers. Thule Group is a global company and its products can be found in every corner of the world. In order to achieve maximum efficiency and work flexibility, Thule Group planned three independent stations for automatic powder coating systems with quick color change from **Gema Switzerland**, replacing the old line with new ones. In practice, these are three independent systems connected by a common surface preparation, drying and cooling tunnels, and a common control system.

Gema powder coating applications are equipped

with:

- **MagicCompact EquiFlow** quick color change booth, which provides the customer with short changeover times,
- a powder recovery system that reduces production costs,
- a **OptiCenter OC07** powder centre, which, in combination with the **OptiSpray AP01.1** application pumps, increases the quality of the finish, ensures the stability of the film thickness and significantly reduces powder consumption.

Each booth is equipped with 2 manual coating stations, which are used for coating a few parts

of the portfolio. The powder coating systems are controlled via **MagicControl 4.0** control units, which takes the Industry 4.0 standard into consideration.

The advantages of the Gema system are a uniformly constant coating thickness over the entire surface for every production batch, a significantly higher quality of the final coatings and a considerable reduction in powder consumption.

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