

Application Success Stories

ThyssenKrupp Fawer Liaoyang Spring Co., Ltd Gema Powder Coating System Solution



SIT «Smart Inline
Technology»

Increased Productivity

Premium Coating
Results

Application Success Stories

Installation Key Data, Booth 1: Normal powder

Parts: Automotive Springs

Object Size: Height 650 mm
Width 400 mm

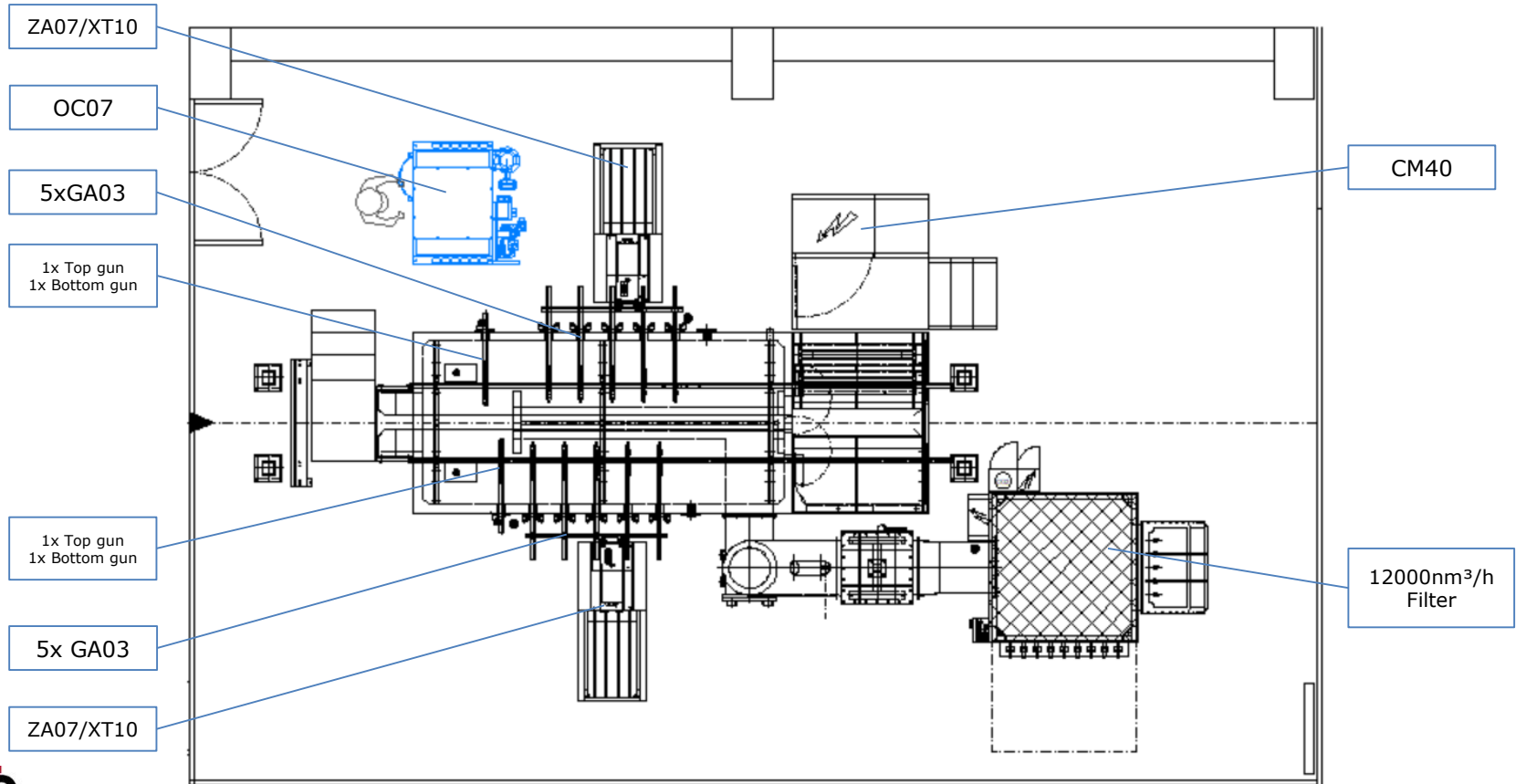
Conveyor Speed: 4.1 m/min

Scope of delivery:

- 1 x OptiCenter® OC07 with OptiFeed pump PP07
- 1 x Ultra sonic sieve US07
- 14 x OptiSpray AP01.1 application pumps
- 14 x OptiGun® GA03-P with CAN bus (Color change cover)
- 1 x ICS cabinet with:
 - 14 x OptiStar® 4.0 CG24-CP
 - 1 x MagicControl 4.0 (CM40)
- 2 x Reciprocator ZA07-18 with XT10
- Light barrier
- Remote coating data exchange
- Afterfilter 12'000 Nm³/h



Application Success Stories – Layout Booth 1



Application Success Stories

Installation Key Data, Booth 2: ElastoProtect

Parts: Automotive Springs

Object Size: Height 650 mm
Width 400 mm

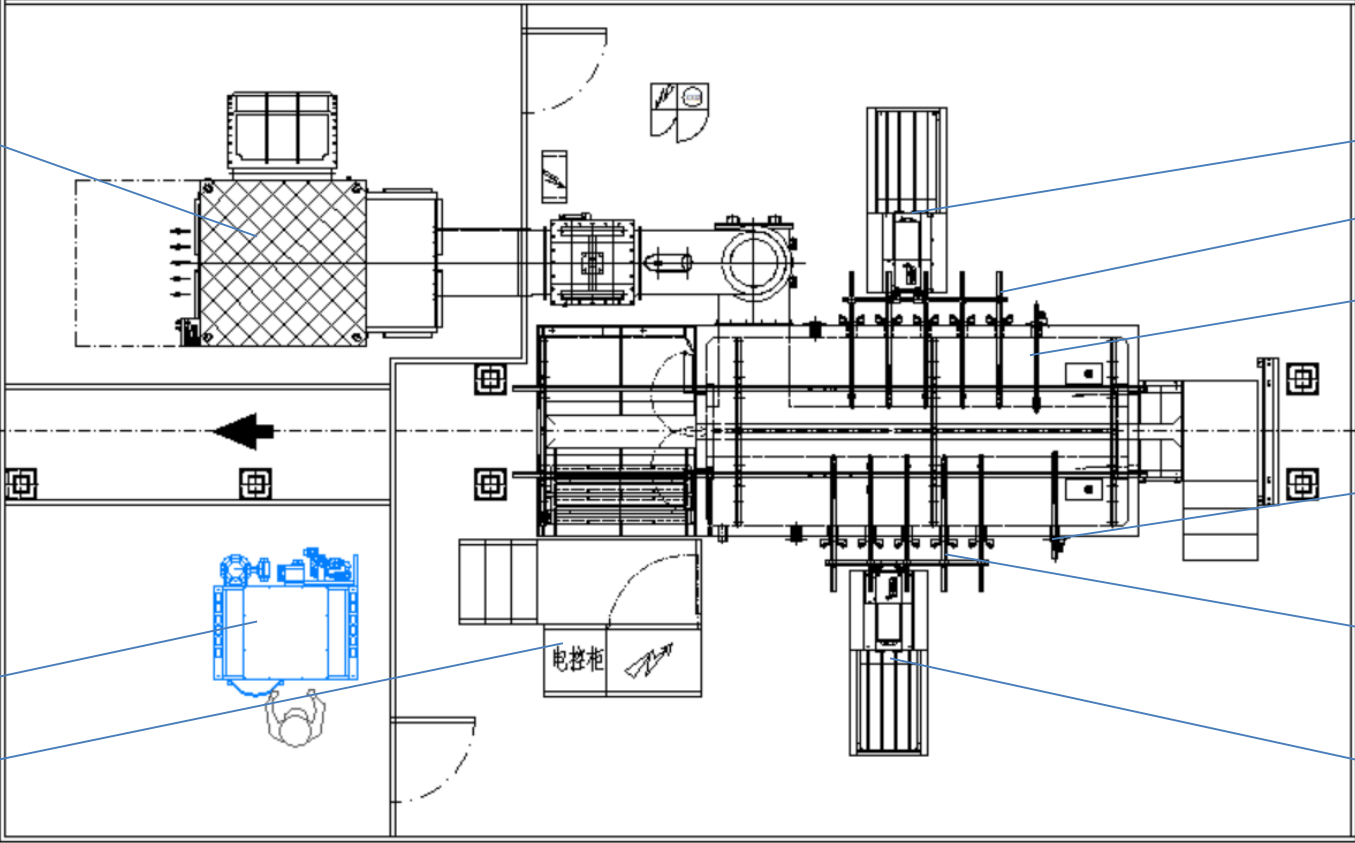
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- 1 x ICS cabinet with:
 - 14 x OptiStar® 4.0 CG24-CP
 - 1 x MagicControl 4.0 (CM40)
- 2 x Reciprocator ZA07-18 with XT10
- Light barrier
- Remote coating data exchange
- Herding Filter 16'000 Nm³/h



Application Success Stories – Layout Booth 2



16000Nm³/h
Herding

ZA07/XT10

5xGA03

1x Top gun
1x Bottom gun

OC07

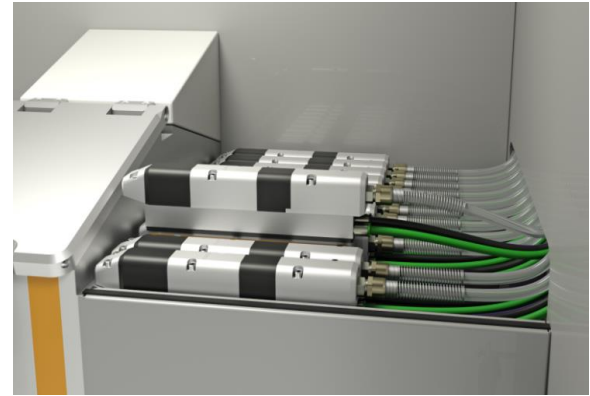
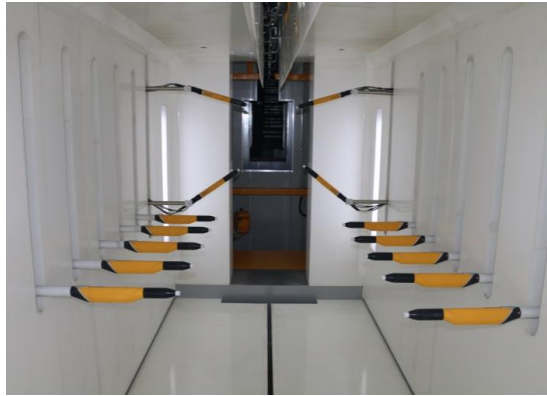
CM40

1x Top gun
1x Bottom gun

5xGA03

ZA07/XT10

Application Success Stories



Company Profile

Founded in 1995 and located in Liaoyang City, Liaoning Province, Thyssenkrupp Fawer Liaoyang Spring Co., Ltd. is a Sino-European joint venture, namely Fawer Automotive Parts Co., Ltd. Focus on automotive suspension spring, torsion bar, anti-roll bar and other automotive parts research and production.

Company Expectation

With the continuous growth of business volume and the company's demand for improved product quality, the customer's powder coating system (imported other brand) can not meet the requirements.

Key to Success

Booth 1 spray plastic powder, film thickness should meet 60~150 μ m.

Booth 2 spray ElastoProtect powder, low-temperature powder, film thickness should be above 300 μ m, so the thermal spraying process is used. To ensure the stable recovery and use of ElastoProtect powder, the OptiCenter OC07 and after filter are placed separately and controlled by constant temperature and humidity. In the case of special powders, a sintered plate filter is used to improve filtration efficiency and lifetime, and to avoid fibre distraction.

The advantages of the Gema system, which ensures consistent film thickness from batch to batch:
Significant reduction of operators' touchup during production with higher quality of the final coating.
Significant reduction in powder consumption, reduction in production waste and improvement in wear part life results in reduction of overall cost.