Application Success Stories

Shinko Metal Co., Ltd.

Ventilation fan hood coating

Change from liquid to powder	Program free coating of big parts	Expanding Productivity Stable surface quality

Gema

Application Success Stories

Layout
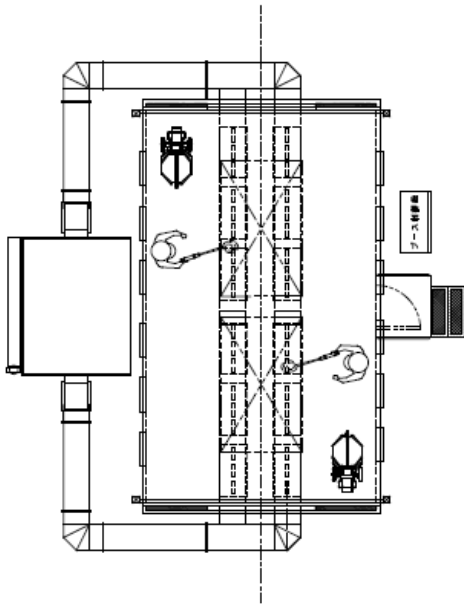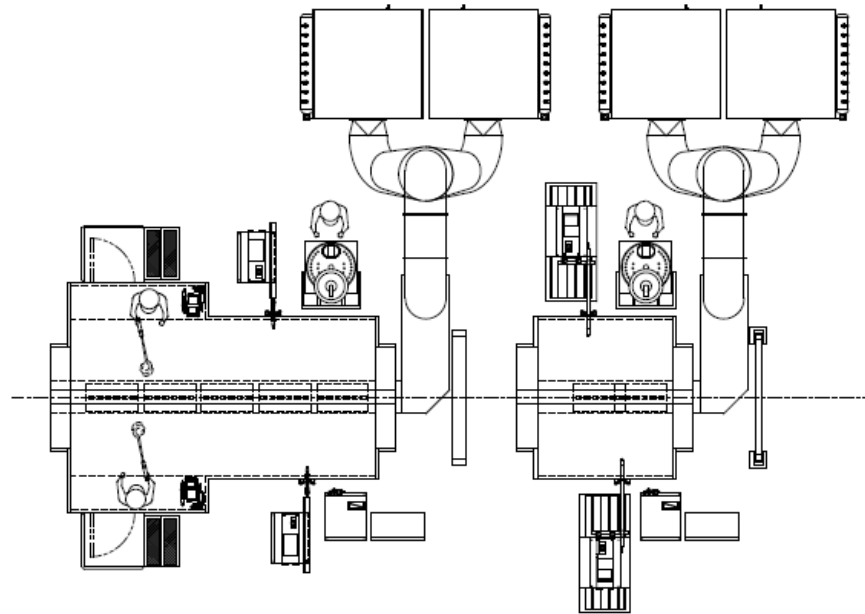
● Manual batch booth   ● Dynamic Contour booth   ● Primer booth

Application Success Stories

Installation Key Data

Objects : Roof Fan

Parts Size : 2000 mm (L) x 1200 mm (W) x

2000 mm (H)

Conveyer Speed : 1.0m/min

Scope of Delivery for 3 booth systems:
　　　4x Laser Scanner
　　　11x UA04/GA03AX
　　　2x MagicControl 4.0
　　　1x OptiFlex® AS08-11P, 1x AS08-18P
　　　2x OptiFlex® AS08-21P
　　　2x Reciprocator ZA13-23
　　　2x Reciprocator ZA07-23/XT10-10
　　　4x OptiFlex® 2-B
　　　2x PH150+PS2-2
　　　5x 12000m3/h
　　　3x Local brand booths

Shinko Kinzoku Kogyo CO., Ltd./ Nagano, Japan

Application Success Stories

Company Profile:
Since its establishment in October 1956, the company has mainly manufactured rooftop fans for heat resistance.
The company manufactures parts from sheet metal and is supplier of domestic ventilation fans. Their scope of manufacturing includes also painting and assembling of the products.
They aim to become an environmentally friendly company while improving product quality and further automating the manufacturing process.

Company Expectations:
In the past, the coating work was done manually by liquid spraying. As a result of the manual spraying, delivery problems occurred and mass production was prevented. Also, liquid spray coating requires specially skilled operators with special know-how to carry out the spraying. Shinko decided to change from liquid to powder coating to solve those problems.
They expected that the new powder coating line is easy to operate and significantly improves the working environment, increases productivity and enhances the automation, which guarantees a consistent product quality and a reliable coating process.
The powder coating line is VOC-free.

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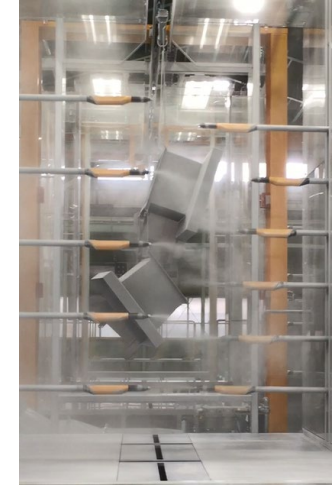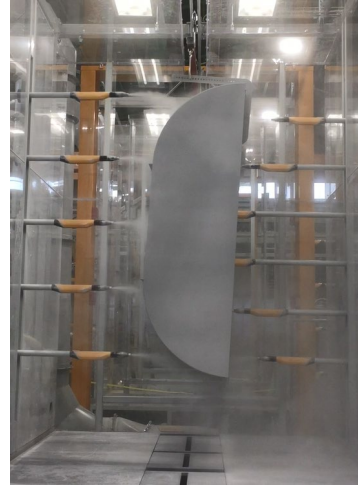
Key to Gema Success:
The products to be coated are very large and deep, testing with a standard reciprocator required a lot of touch-up coating.
For this reason, the Gema Lab in Switzerland conducted a test with a 3D reciprocator / Dynamic Contour Detection system that can easily solve these problems and eliminates the need for troublesome programming for each different product. It is the best system for automation that

automatically detects the shape of each product with a laser scanner and individually adapts the position of the gun according to the shape. The customer witnessed the test and directly confirmed the excellent coating performance. This also underlines the importance of testing with actual equipment. After the commissioning, the customer is highly satisfied with the coating flexibility of the system, even on complex parts. This example also confirms that the

contour detection system can be easily used without difficulty by any operator, even without any experience with automatic coating lines.