Application Success Stories

The first automatic powder coating line in the field of dry-mixed mortar storage tanks

Huge Workpiece booth system

Robot integration

Automatic coating line
Application Success Stories

Layout:
Application Success Stories

Installation Key Data

**Parts:** dry-mixed mortar storage tanks

**Object sizes:**
- H 7000 mm
- W 3500 mm

**Conveyor Speed:** 0.5 m/min

**Scope of delivery:**
18 x OptiGun® GA03  Automatic guns
2 x OptiFlex® Pro W Manual coating equipment
1 x MagicCompact® EquiFlow® BA04-XXL Booth
1 x MagicControl ® CM30
2 x ZA07-28/ XT10-14  Reciprocators
2 x MPX1950 Yaskawa robots
2 x STS  Flame detectors
Application Success Stories

**Company Profile**
Tianjin Zhurun technology development co., LTD., founded in June 2008, has established a leading professional dry-mixed mortar storage tanks equipment production base in Shangqiu city, Henan province. The base covers an area of 20’000 square meters, and the production workshop is 16’000 square meters in area. The company is the only enterprise participating in the compilation of the national standard of dry-mixed mortar storage tanks.

**Company Expectation**
Tianjin Zhurun aims to build an automatic coating line, to break through the original manual spraying production mode as well as reducing the labor cost of workers and enhancing the reliability and appearance stability of product quality. The goal is to achieve intelligent automation and modularization with high stability, high-reliable operation, easy operating and maintaining, energy saving and protection of the environment.

**Key to Gema Success**
- The 8.8 meters tall and 4.6 meters wide MagicCompact BA04 XXL booth was customized to fit huge size workpieces.
- Gema products combine the robots used in advanced powder coating technology to achieve the best quality of the powder coated workpiece.
  - 96,000m³/h booth air volume for high efficiency recovery rate. A scientific design for maximum control of the dust concentration of large workpieces during the spraying process, to ensure the cleanliness and safety factor around the powder room.
  - The manual spray gun section uses the newly launched OptiFlex Pro W. Equipped with three intelligent modes and a 135° angle injector design, the gun can spray the most complex part geometries and reduce the labor intensity of the operator.