Dynamic Contour Detection 2nd Generation
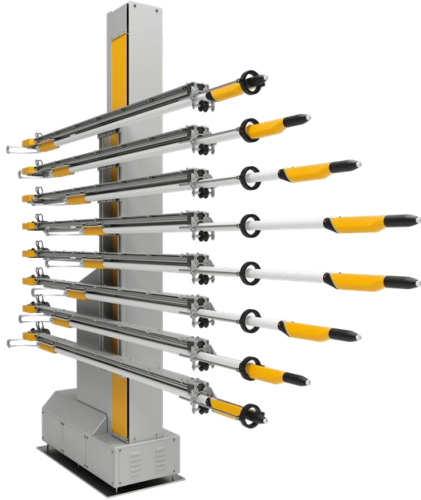
| Quality increase Best finishing | Better penetration into cavities and edges | Reduced manual retouching |

Installation Key Data

Objects: Jobcoater

Parts Size: H 2.200 mm
                           W 900 mm

Conveyor speed: 1,6 m/min

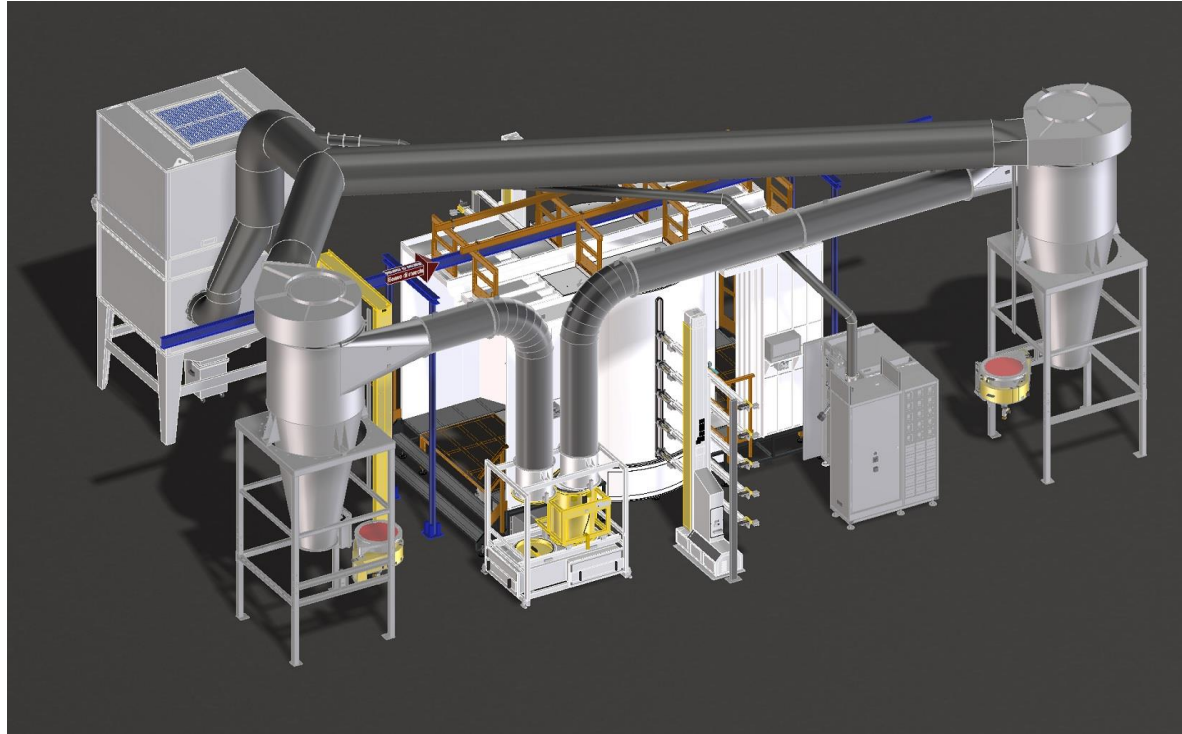**Scope of delivery:**
1 x MagicCylinder® EquiFlow® QCS04 booth
1 x Cyclone with high-efficiency powder recovery
1 x Cartridge Filter for 24.000 m^3/h
1 x MagicControl 4.0 + Integrated system "Industry 4.0"
1 x Contour Detection System, with: 4 x scanner, 2 x
      Reciprocator ZA16-23 + 12 x gun axis UA05
1 x OptiCenter® OC07 with Smart Inline Technology:
      10 x Automatic guns - OptiGun® GA03P
      04 x Manual guns - OptiSelect® GM04
      14 x Control for guns - OptiStar 4.0 CG24-CP
      14 x application pumps OptiSpray AP01.1
      01 x Ultrasonic Sieve US07

Gema

Tecnologie Galvaniche Innocenti s.r.l. / Italy

Layout

Tecnologie Galvaniche Innocenti s.r.l. / Italy

Application Success Stories

Tecnologie Galvaniche Innocenti is an establised company (1948) which operates in various sectors, including automotive, mechanical engineering, aeronautics and electronics.

The services offered are: pickling and passivation, powder- and liquid coating, sandblasting.

At the end of 2022, the latest generation **MagicCylinder** EquiFlow booth with **Gema's 2nd generation Dynamic Contour Detection** was installed, complemented with the application pumps **OptiSpray AP01.1** «SIT» Smart Inline Technology.

To increase the efficiency of the color change and maximize the quality of the finish, it was also decided to use a double recovery system, with two independent cyclones connected to the booth via a color switching unit. This system allows to manage the recovery of the light powders separately from the dark ones and consequently eliminating any risk of contamination during the color change.

The 2nd generation **dynamic contour detection** scanners identify the complex part shapes and individually position each of the guns mounted on the reciprocators for optimal surface coating.

And all this without any programming. The **MagicControl CM40** does this work completely. With the second generation of this dynamic shape recognition system, developed by Gema, every single gun is in the right place at the right time.

The **advantages** of Gema's **Dynamic Contour Detection** technology combined with the **OptiSpray AP01.1** «SIT» Smart Inline Technology, are the following:

- Significant reduction of adjustments by the operator
- Improved thickness uniformity
- Higher quality of the final coating
- Substantial reduction in manual coating
- Significant reduction of powder consumption
- Important reduction of production waste
- Possibility to increase the working speed
- Quick color change process