

Gema Powder Coating Equipment



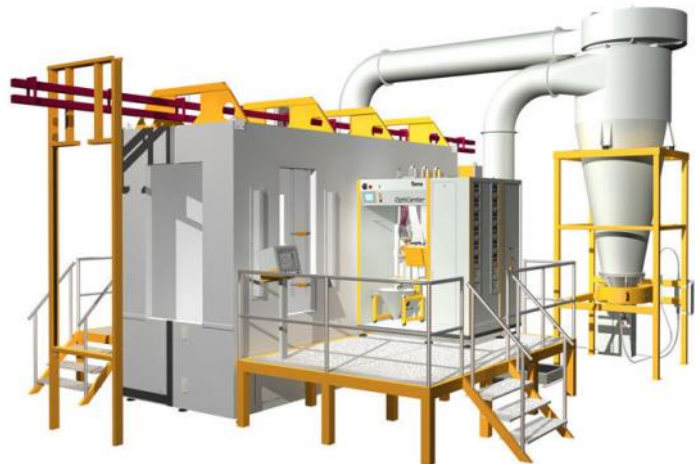
Surface Finishing
Equipment Group

Powder coating is accepted as a solution to increasingly stringent environmental regulations, rising costs, and demands by consumers for higher quality and more durable products.

The Surface Finishing Equipment Group work in conjunction with GEMA, the industries global powder coating equipment development pioneer. We provide everything from manual machines, automatic guns, reciprocators, powder booths, colour change systems, along with the after sales support of spares servicing, and spares.

Gema Powder Coating Equipment Range

- Complete Powder Coating Plants
- Gema Optiflex Pro Manual Machines
- Gema Opti Automatic Guns and Reciprocators
 - Booths and Curing Ovens
- Powder Feed and Colour Change Systems



THE SURFACE FINISHING EQUIPMENT GROUP are :-

Hogg Blasting & Finishing Equipment Ltd (North East)

Unit 10 Armstrong Road, Washington. Tyne & Wear . NE37 1PR. Tel: 0191 415 3030. info@hoggblasting.com

Abraclean Ltd and Jedtec Finishing Equipment (North West)

4 Kelbrook Road, MANCHESTER. M11 2QA. Tel: 0161 480 8087. sales@abraclean.co.uk

Complete Finishing Systems (Finishing Plant UK)

Unit 2 Cleton Business Park, Cleton Street. Tipton. DY4 7TR. Tel: 01902 601 312. info@sfeg.co.uk

Automated Color Change

The AP01 OptiSpray pump has an integrated automatic cleaning function and an ideal design for color change.

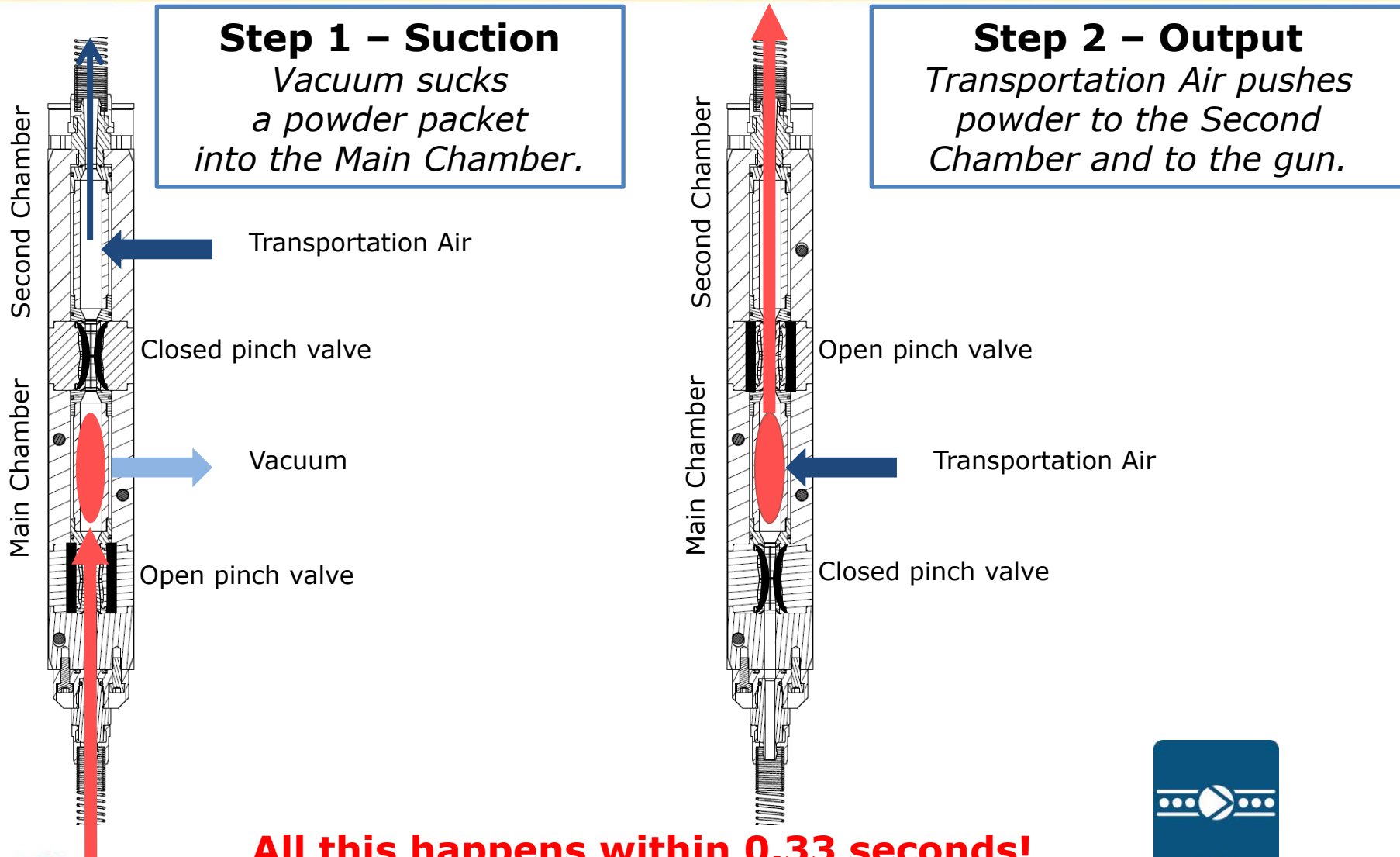


Linear
powder flow

No powder
accumulations

Automated
purging program

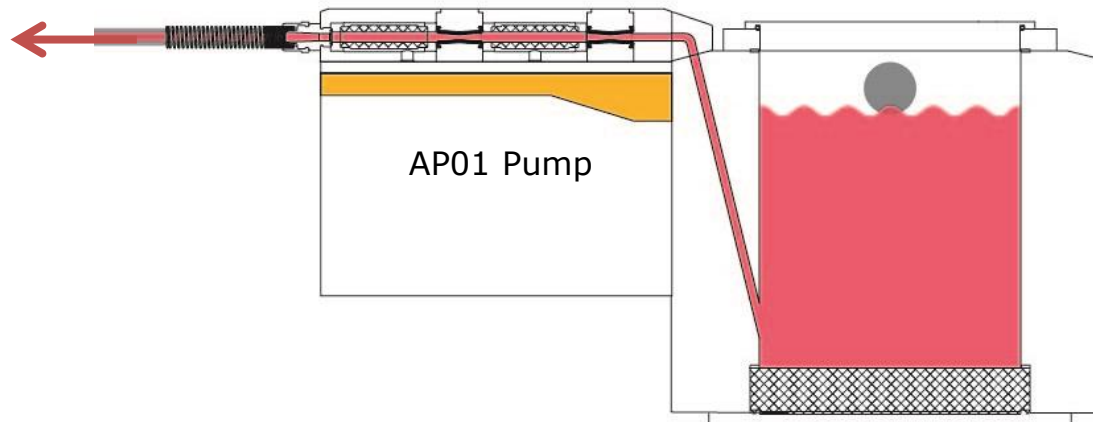
Smart Inline Technology: how does it work?



All this happens within 0.33 seconds!

Linear powder flow

- The AP01 pumps use just one straight and linear power path.
- Powder is gently moved always in the same direction, from the hopper to the gun.
- Ideal design for easy blow-through cleaning.
- **AP01 offers in absolute the best design for color change.**



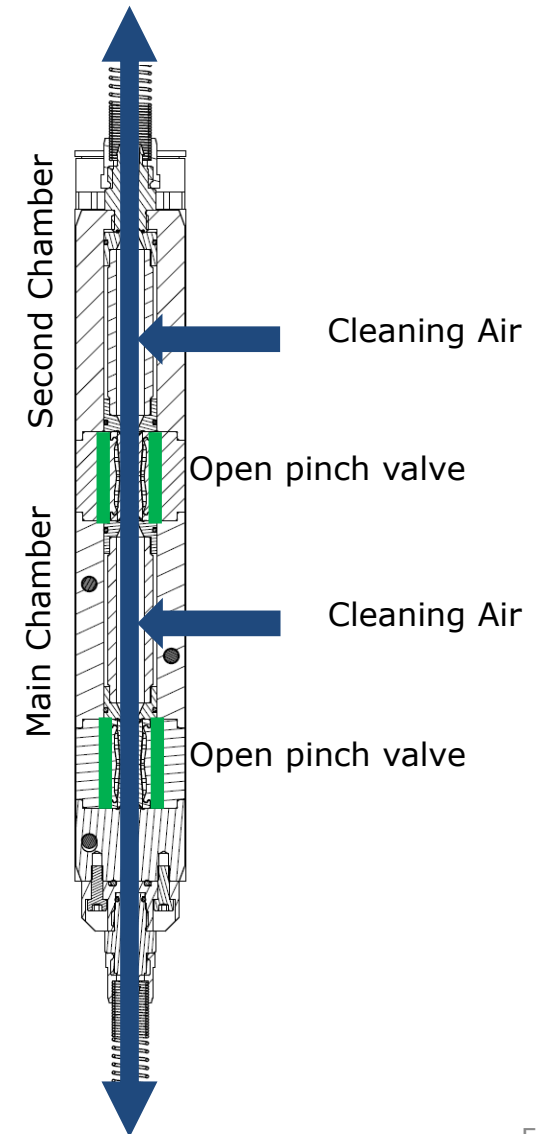
No powder accumulations

- The AP01 pumps use one straight and linear power path.
- No need for parallel pumping chambers with connections where powder can accumulate.
- No need for complicated chambers where powder can deposit.
- **AP01 offers in absolute the best design for color change.**



Automated purging program

- The AP01 OptiSpray pumps can be cleaned with an **automated purging program**.
- Cleaning air is introduced in both chambers and flows in both directions.
- The chambers' fluid material is deeply cleaned
- The pick-up hose from the hopper to the pump is purged
- The transport hose from the pump to the gun is purged



Ideal pump integration in OptiCenter

- AP01 OptiSpray pumps can be integrated in the OptiCenter for the best operating performance and the easiest cleaning.
- Compact pump positioning for the most efficient powder transport.
- Fresh Powder Feed options for constant application quality.
- Clean environment for easy cleaning and color change.



OptiSpray AP01

The REVOLUTION in powder application

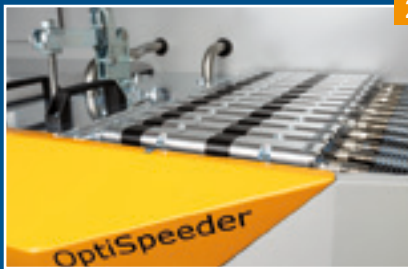


OptiSpray AP01 with SIT (Smart Inline Technology)

- Unprecedented powder savings
- Stable and repeatable powder output over long durations
- Consistent coating quality
- Automatic color change
- Simple and ergonomic system integration
- Minimal maintenance requirements
- Suitable for organic and enamel powder

Your global partner for high quality powder coating





1

OptiCenter OC03

Excellent coating quality

- Continuous mix of fresh and recovery powder
- Integrated quality sieving solution
- Sealed and closed loop powder circuit

Quick color change

- Automated cleaning procedure for powder hopper, pump and powder hoses

Compact design

- Integrated electrostatic gun control and powder management
- Flexible configuration

Ergonomic and intuitive touch panel interface

Easy maintenance

2

Pump Integration

- Integrated electronic pump control
- Completely preassembled, ready to use
- Short pneumatic connections for a quick gun On/Off function
- Horizontal pump integration for easy access and maintenance
- Cover protection
- Dust-free and user-friendly operation

3

OptiSpeeder

- Closed powder hopper
- Volume for 5 kg of powder
- Connections for up to 24 pumps
- Constant powder level
- Short suction tubes
- Fast gun switch On/Off

OptiSpeeder Cleaning

- Automatic hopper cleaning
- "Airstream" technology
- Automatic OptiSpray AP01 pump cleaning
- Automatic suction tube and powder hose cleaning



4

OptiStar 4.0

- Intuitive Interface
- Easy Programming for high voltage, current and powder output
- 250 customized programs storage capacity
- **DVC (Digital Valve Control)** for accurate and repeatable powder output settings
- **PCC (Precise Charge Control)** for exact current control below 10 μ A in 0.5 increments!
- CAN-Bus for communication with superior control system
- Robust and rugged design

5

OptiGun GA03

- Quick Color Change design
- Superior application performance even with unbonded powders
- Optimal transfer efficiency thanks to the 100 kV high performance cascade
- Broad range of application accessories
- Easy maintenance and wear-resistant design
- Integrated diffuser for pump technology

6

OptiSpray AP01

- Unique single chamber design
- **SIT** concept (**S**mart **I**nline **T**echnology)
- Automatic wear part diagnostic
- Compact design for a perfect system integration
- Stable application quality over long time
- Up to 15% powder savings
- Automatic cleaning program for color change
- Easy Maintenance

Gema Switzerland

Your global partner for high quality powder coating

Take advantage of our expertise and experience from more than 50 years of electrostatic powder coating applications. From simple hand coating through to fully automated powder coating, we offer solutions that meet the demands and requirements of customers around the world in a wide range of industrial sectors. A global service network ensures you always get professional support, at any time and any place!

Gema is part of Graco Inc. Our goal is to help our customers to increase their productivity while creating attractive, long-lasting products. Our experts continually set new standards in the surface coating industry.



Gema Switzerland GmbH reserves the right to make technical modifications without notice. Illustrations in brochures may contain special options and do not necessarily correspond to the standard version. EquiFlow, Gema, MagicCompact, MagicControl, MagicCylinder, OptiCenter, OptiFlex, OptiFlow, OptiGun, OptiSelect, OptiSpeeder and OptiStar are trademarks of Gema Switzerland GmbH.

Gema Switzerland GmbH

Mövenstrasse 17 | 9015 St.Gallen | Switzerland
T +41 71 313 83 00 | F +41 71 313 83 83
www.gemapowdercoating.com

