OptiFlex®2

any powder
any part
any place



Manual powder coating

The new OptiFlex 2 puts the world's most advanced manual powder coating technology in the palm of your hand. Spray all powders with ease, coat complex geometries with outstanding efficiency and quality and do it all in the most challenging environments – anywhere on the planet.

Your global partner for high quality powder coating

Gema

any powder







Handles any powder

Today, you're faced with the challenge of spraying a multitude of colors and chemistries. OptiFlex 2 gives you the power and control needed to achieve the best looking finish with any powder.

Optimum ergonomics

The light-weight, ergonomically designed gun provides better in-hand balance and feel allowing you to comfortably position the gun for better coverage and faster coating.



Three standard programs (flat parts, profiles and re-coating) are available on the control panel.

OptiStar® – Control functions for the future

- Unprecedented precision control of current and voltage ensuring maximum efficiency and uniformity of coating.
- For challenging powders such as metallic or special effect, OptiStar offers Precision Charge Control (PCC) ensuring greater accuracy and adjustability of current settings below ten microamperes (0–10 µA).
- The clear display makes it easy to find the optimal settings in every condition. The result? Perfect coating quality, reproducible time after time!
- From the OptiStar control you can activate the optional PowerClean function, that cleans the entire powder path – from the injector to the gun nozzle – by powerful air blasts.



any part



Applies the powder where needed

Complex part geometries won't slow you down. OptiFlex 2 simplifies the coating of difficult shapes by applying the powder precisely where needed.

Optimized nozzles for best results

A new generation of spray nozzles, provide excellent powder distribution and penetration needed to coat difficult geometries.

OptiSelect® – Innovative powder gun

- PowerClean™ is a new development which cleans the entire powder path from the pump to the gun tip. Using powerful blasts of air (30 Nm3/h), OptiFlex 2 improves performance when spraying challenging powders and makes color changes easier.
- The integrated 100 kV cascade delivers the highest transfer efficiency. This means more powder on the work piece, less powder in the recovery system!
- On-gun remote control gives you the flexibility to select the ideal application parameters directly from the gun, without turning away from your work.







any place

No matter which conditions

No matter where you are, you'll be coating perfectly with the new OptiFlex 2. Whether operating in heat or cold, in dry or humid conditions, OptiFlex 2 delivers outstanding functionality and performance required for any coating environment.

Robust design that takes the strain...

Industrial strength one piece gun body design, die-cast pump, and steel construction cart provides unparalleled toughness and durability that stand up to any coating environment.



Sophisticated solutions for high productivity

- The mobile cart coupled with the industry's first 360° rotating control unit offers flexibility for adjustment in any work location.



- New, ultra-efficient powder pump design employs the most effective angle to consistently deliver powder, resulting in optimized air consumption and less powder waste.

any model



OptiFlex®2 B



OptiFlex®2 Q

For frequent color changes

If your production requires frequent and quick color changes, then we would recommend the OptiFlex 2 B, which is designed to use the powder manufacturer's original carton.

- Highest flexibility
- Minimal color change times
- For direct transport from the original powder box
- Complete emptying of the powder box thanks to the tilted vibrating base
- Integrated fluidization

Colour change in 35 seconds

Are super-fast colour changes your priority? OptiFlex 2 Q is equipped with additional features that allow:

- Super-fast colour change in 30-40 seconds
- Unlimited number of colours
- Suitable for all types of powder
- Minimal space usage



OptiFlex®2 F

For continuous powder use

If continuous use of the same powder over a long period of time is the bulk of your production schedule, then we would recommend the OptiFlex 2 F with the 50-litre fluidized powder container.

- Ideal for large powder quantities
- Compatible with all powder types
- 50-litre powder container with fluidization
- Easy cleaning of the container



OptiFlex®2 S

For difficult-to-spray powders

Do you need to economically process powders with a tendency to separate during fluidization? OptiFlex 2 S is your best choice!

- Unique stirrer system with 18 kg hopper capacity
- Processing of powders with poor fluidization
- Preventing the separation of powders
- Processing of small quantities without any loss
- Complete emptying of remaining powder



OptiFlex®2 CF

For Lab use

Do you carry out lab applications or quality tests? The OptiFlex 2 CF unit is the perfect solution for lab use and quality control.

- High quality, repeatable coating results guaranteed
- Fast color change – semi-automated cleaning process in less than 20 seconds
- Application funnel volume 250 ml (optional 600 ml)
- Robust and durable, designed for minimal maintenance costs



OptiFlex®2 C

For small batches

Do you want to coat small batches or samples? Your solution is the OptiFlex 2 C with self-fluidizing application cup.

- Perfectly suited for small powder quantities
- Self-fluidizing application cup (optionally 150 ml or 500 ml)
- Processes powder quantities from 20 g to 250 g
- The application cup can be easily combined with every coating unit



OptiFlex®2 L



OptiFlex®2 W

For small quantities

If you need to process small batches of different parts, then your solution would be the OptiFlex 2 L.

- Fluidized powder container
- Up to 4 litres of powder
- Removable powder container
- Quick-release for easy cleaning

The universal solution

For upgrades, to be mounted on booth walls or at your production site: OptiFlex 2 W can be integrated in any existing surrounding.

- Its bracket can be mounted on any powder booth
- Takes the powder from fluidized hoppers of original powder box

Technical Data OptiFlex 2 models

Electrical data	
Nominal input voltage	100 – 240 VAC
Frequency	50 – 60 Hz
Temperature range	0 °C - +40 °C +32 °F - +104 °F

Pneumatic data	
Max. input pressure Min. input pressure (dynamic)	10 bar / 145 psi 5.5 bar / 80 psi
Max. water vapor content of compressed air Max. oil vapor content of compressed air	1.3 g/Nm³ 0.1 mg/Nm³

Approvals	
Manual powder gun OptiSelect Type GM03	CE0102 Ex II 2 D PTB11 ATEX 5006
Manual gun control unit Type CG13	CE0102 Ex II 3 (2) D PTB11 ATEX 5007
Manual coating equipment OptiFlex 2	CE Ex II 3 D IP54 120 °C

Dimensions OptiFlex 2 B und W	
Compressed air consumption normal operation	5.5 Nm³/h

Dimensions OptiFlex 2 F	
Hopper volume	50 l
Compressed air consumption normal operation	7.5 Nm³/h

Dimensions OptiFlex 2 S	
Hopper volume	18 l
Compressed air consumption normal operation	5.5 Nm³/h

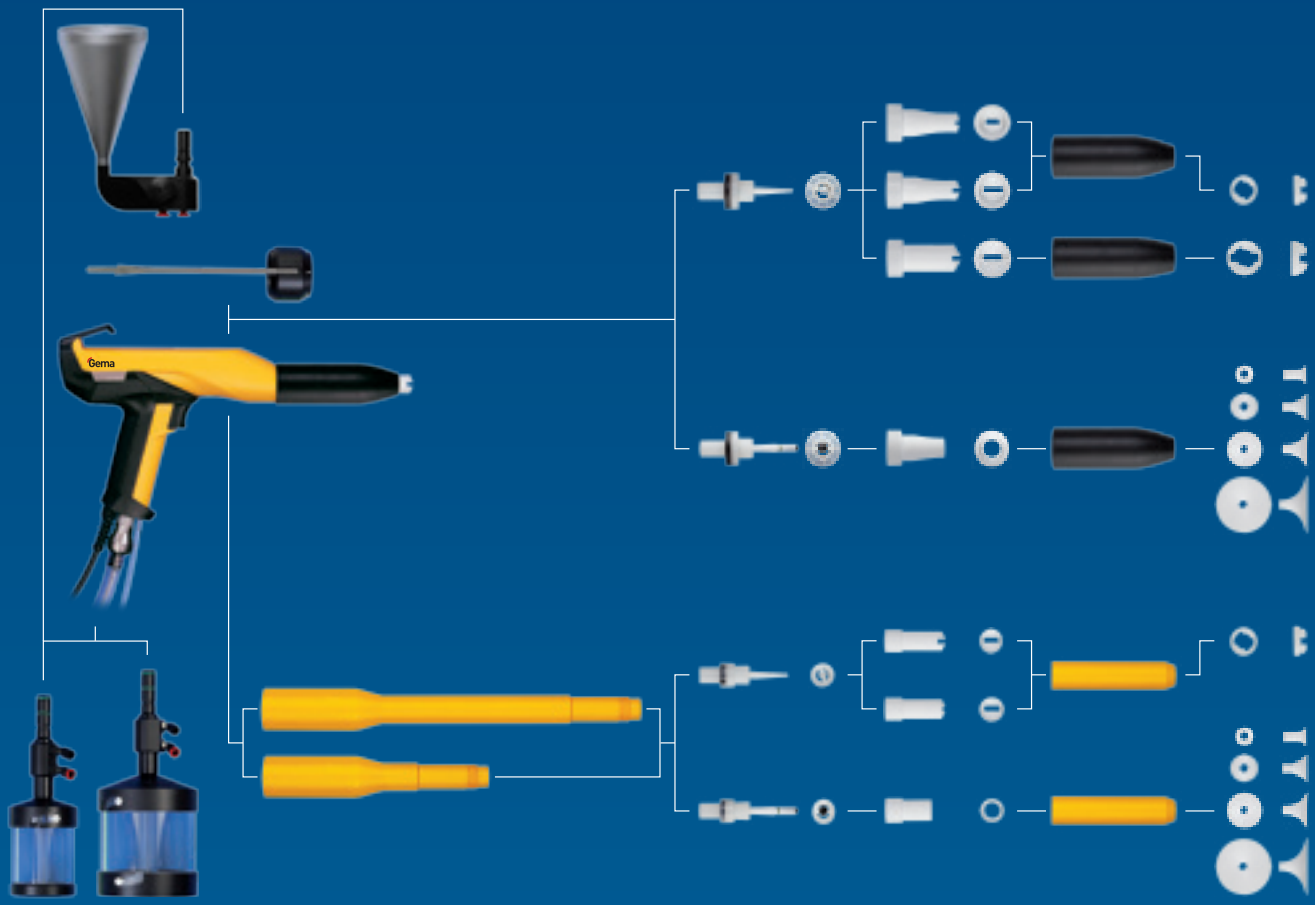
Dimensions OptiFlex 2 C	
Hopper volume	optionally 150 ml or 500 ml
Compressed air consumption normal operation	5.0 Nm³/h

Dimensions OptiFlex 2 CF	
Hopper volume	250 ml (optional 600 ml)
Compressed air consumption normal operation	5.0 Nm³/h

Dimensions OptiFlex 2 L	
Hopper volume	4 l
Compressed air consumption normal operation	5.5 Nm³/h

Dimensions OptiFlex 2 Q	
Compressed air consumption normal operation	5.5 Nm³/h (for a short time during cleaning cycle 30 Nm³/h)

OptiSelect manual gun and accessories



Nozzle Assortment

Flat jet and round jet nozzles for all applications to ensure the optimum spray pattern for the object:

- Optimal powder cloud creation
- No powder deposits
- Seamless design
- Low wear characteristics
- Optimal material choice
- Elimination of powder spitting
- Quick color changes

SuperCorona

The optional SuperCorona extension:

- Neutralizes the free ions
- Reduces orange peel effect, where thicker coatings are required
- Reduces the picture frame effect



Increase the productivity!

OptiFlex2 B, Q, F and S are available with double gun versions.



ClassicLine Manual Booths



Manual booth systems

Manual booths by Gema Switzerland GmbH are ideal for the whole range of manual coating from small series to volume production. The modular structure of this range of booths means that there is always a perfect solution for every need. Moreover, ATEX-compliant components guarantee utmost safety.

A space-saving design, integrated functions and ease of operation provide ideal conditions for efficient and high quality manual coating. You can also adjust the extraction capacity to your particular needs: 4000 Nm^3/h are perfect for smaller coating tasks, while 6600 Nm^3/h are ideal for larger items.

Gema Switzerland

Your global partner for high quality powder coating



Take advantage of our expertise and experience from more than 40 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.

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