

OptiFlex® ProX Series

Performance Powers Quality!



ProXimity – eXperience – eXcellence

The new generation of OptiFlex manual units impresses with additional application performance and even higher coating precision due to the new TargetSpray technology, which provides intelligent support for perfect coating results. With OptiFlex ProX, you easily process all powder types and coat complex parts of superior quality - everywhere.

Your global partner for high quality powder coating

 **Gema**

The new benchmark for precision and performance

The first choice in manual coating

The OptiFlex ProX manual units are uncompromisingly and agilely designed for maximum industrial suitability and worldwide use. The intelligent and durable components fit perfectly together and form the powerful package for superior manual powder coating. The ergonomic and intuitive operation enables every user to achieve the best coating results at any time.

Highest industrial suitability

The new OptiSelect® ProX gun features a particularly robust and durable design. The ergonomic and light-weight gun is well-balanced in the hand, has a secure grip and enables you to coat efficiently and faster. PowerBoost® high-performance technology in combination with the new TargetSpray technology provides extra performance and higher coating precision.

The integrated remote control allows to easily activate the PowerBoost powder charging mode and to regulate the powder output right away.



TargetSpray – Intelligent support for perfect coating results

TargetSpray supports coaters precisely where conventional application methods reach their limits.

1 The intelligent assistance function automatically detects when the OptiSelect ProX manual gun is approaching complex component geometries and adjusts the coating parameters in real time. This allows recesses, undercuts and junctions to be coated precisely and evenly – without any programming effort and without interrupting the coating process.

The result: higher surface quality, prevention of orange peel, less overspray, noticeable powder savings and last but not least, a remarkable time saving.

2 As soon as the critical area has been coated, the gun automatically returns to the preset parameters. Simple, intuitive and efficient.

TargetSpray – maximum control, higher quality, lower consumption.



1 Automatic parameter adjustment in real time around the complex geometry



2 Automatic return to original parameter settings for coating the remaining areas

Repeatable and stable coating quality

Best coating results and fastest response times

OptiSpray® application pump is your first choice for high quality coatings over long production periods. The pump's unique single-chamber system ensures gentle powder flow, stable and consistent coating results and substantial powder savings.

Main features OptiSpray application pump

- Consistent, gentle powder flow for uniform film thickness and repeatability
- Stable coating quality over long production runs increases system efficiency and provides high application quality and optimum powder utilization
- Improved application performance for all powder types
- Fast-reacting and controlled powder output with immediate effect on the powder cloud delivering optimum coating results
- The unique single chamber pump provides linear and smooth powder flow, reproducible coating results and significant powder savings.

Highest cleaning performance and fastest maintenance

- Highest cleaning efficiency through bidirectional and pulsed cleaning of the powder path
- Tool-less and fastest access to all wear parts



OptiFlow injector – for repeatable quality

The robust OptiFlow injector with cartridge design further optimizes the venturi principle in terms of transport efficiency and low wear. By simply exchanging the one-piece cartridge, the injector is optimally maintained and restored to full performance. The usage of fewer parts and the seamless design of the injector improve the ability for fast color change.

Main features OptiFlow injector

- Cartridge design merges insert sleeve and conveying nozzle into one single component
- Powder outputs of up to 450 g/min can be achieved, depending upon hose length and diameter
- Quick release design for the powder hose
- Single-component cartridge design
- Insert sleeve made of wear-resistant metal conveying nozzle
- Robust diecast injector housing
- Robust and tight air connections



The OptiFlow injector with single-component cartridge design ensures precise and uniform powder delivery to the gun.

Coat always like a Pro!



OptiStar® ProX - the new benchmark for gun controls

- Intuitive 7" TFT touch display for easy use and highest user-friendliness with integrated zoom-function
- Intuitive display with **Pro and Preset modes** for fast setup and reproducible coating quality.
 - Up to **100 programs** are storable
 - **PowerClean Dock** for fast color change
 - **Job Reporter** for transparent powder consumption tracking
 - **User Manuals** for quick access to guidance and support
- TargetSpray technology for higher surface quality, powder and time savings
- PowerBoost technology with 110 kV charging capacity for higher productivity
- Precise Charge Control (PCC) mode for high quality coating tasks
- Digital Valve Control (DVC) technology for precise powder delivery
- Electrostatic App (E-App) for transparency of the coating



OptiSelect ProX – highest industrial suitability

- The OptiSelect ProX gun features a particularly robust and durable design. The ergonomic and light-weight gun is well-balanced in the hand, has a good grip and enables you to coat efficiently and faster.
- The new TargetSpray precision technology ensures perfect coating results of difficult areas and for recesses, undercuts and junctions.
- The proven PowerBoost provides higher productivity, faster conveying speeds and maximum area performance.
- The integrated remote control allows fast setting changes and flexible operation.
- OptiSelect ProX is ATEX-certified and guarantees safe coating.
- The integrated cleaning of the powder path is enhanced by the optional PowerClean Dock module, which ensures faster and efficient cleaning. This improves performance when processing difficult powders and facilitates color change.
- The latest generation of nozzle assortment ensures excellent powder distribution for every coating application.

Master the application!



Nozzle Assortment

Flat- and round jet nozzles to ensure optimal spray patterns for all applications. The nozzle range is characterized by:

- Ideal powder cloud creation
- Low wear characteristics
- Quick color change capability
- Uncompromising use of material
- No powder deposits
- Seamless design
- ATEX certified



SuperCorona

The optional SuperCorona extension:

- Neutralizes free ions
- Reduces orange peel effect (back ionization)
- Reduces the picture frame effect



Additional options

OptiFlex ProX B and F are available as double gun versions.



OptiFlex ProX W for wall mounting.



Units with OptiFlow ProX injector technology



OptiFlex ProX B



OptiFlex ProX F

For frequent color change

If your production requires frequent and quick color change, OptiFlex ProX B, which is designed to use the manufacturer's original powder box, is your right choice.

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

PowerClean Dock

Integrated cleaning dock for frequent and quick color change, enabling color changes in 35 seconds.

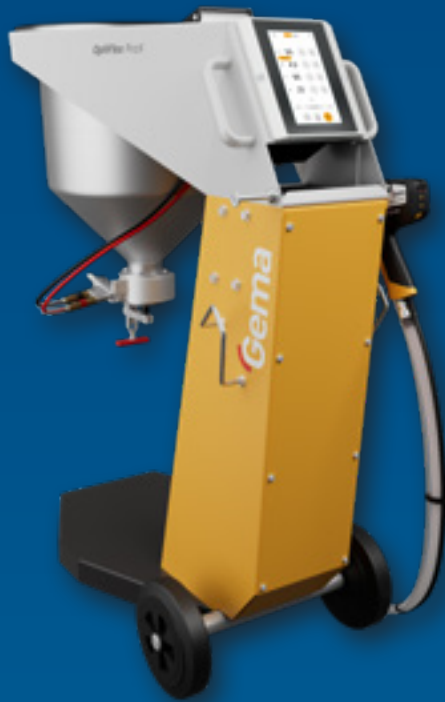
Job Reporter

Integrated scale for powder consumption tracking per batch.

For continuous powder use

If continuous use of the same powder over a long period of time is the bulk of your production schedule, we recommend the OptiFlex ProX F with the 50 l fluidized powder container.

- Ideal for large powder quantities
- Compatible with all powder types
- Scratch-free 50 l powder hopper with fluidization
- Easy cleaning of the hopper



OptiFlex ProX S



OptiFlex ProX C



OptiFlex ProX CF



OptiFlex ProX L

For powders that are difficult to fluidize

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

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

Table units

Our range of units for small batches, lab applications and quality tests cover all needs for small powder quantities that require reproducible coating results.

OptiFlex ProX C

- Self-fluidizing application cup (optional 150 ml or 500 ml)
- Processes powder quantities from 20 – 250 g/min

OptiFlex ProX CF

- Removeable funnel cup with 300 ml or 600 ml
- Simple and reliable color change in 20 s

OptiFlex ProX L

- Fluidized powder hopper with 4 l volume

Units with OptiSpray AP02 application pump technology



OptiFlex ProX B Spray



OptiFlex ProX F Spray

For frequent color change

If your production requires frequent color change and stable powder outputs over long production periods, OptiFlex ProX B Spray is the ideal solution.

- Highest flexibility
- Shortest and cleanest color change
- For direct transport from the original powder box
- Powder output of 50 up to 300 g/min
- Complete emptying of the powder box thanks to the tilted vibrating base
- Integrated fluidization of the powder
- PowerClean Dock
- Job Reporter

For continuous powder use

If continuous use of the same powder over a long period of time is the bulk of your production schedule and you require a constant powder output, choose OptiFlex ProX F Spray with 50 l fluidized powder hopper.

- Ideal for large powder quantities
- Compatible with all powder types
- Scratch-free 50 l powder hopper with fluidization
- Powder output of up to 300 g/min (with 1 OptiSpray) and up to 600 g/min (extension kit with 2 OptiSpray)
- Easy cleaning of the hopper

OptiFlex ProX B Spray

OptiFlex ProX F Spray

		Version I 	Version II 
Consistent coating quality	✓	✓	✓
Fast color change	✓	✓	✓
Conveying from	Original box	Fluidized powder container	Fluidized powder container
No. of guns	1	1	1
Powder output	300 g/min	300 g/min	600 g/min
Extension kit for one additional gun	✓	✓	✓

The manual unit OptiFlex ProX F Spray with two OptiSpray AP02 application pumps (Version II) is specially developed for the application of high film build and for high powder output volumes.

Approvals

OptiSelect ProX Type GM06	OptiStar ProX Type CG40	OptiFlex ProX Units
		
CE 2813 II 2 D	CE 2813 II 3 (2) D	CE II 3 D Ex h IIIB T100 °C DC

Technical data OptiFlex ProX models



OptiFlex ProX B Spray OptiFlex ProX F Spray



OptiFlex ProX B

OptiFlex ProX F

OptiFlex ProX S

Dimensions*	Compressed air consumption normal operation	5.5 Nm ³ /h	7.5 Nm ³ /h	5.5 Nm ³ /h
	Hopper volume	–	50 l	18 l
Electrical data*	Nominal input voltage	100 – 240 VAC		
	Frequency	50 / 60 Hz		
	Temperature range	5 °C – +40 °C 41 °F – +104 °F		
Pneumatic data*	Max. manual unit input pressure	8 bar / 117 psi		
	Input pressure OptiStar	5.5 bar / 80 psi		

*more details available in the user manual



OptiFlex ProX CF



OptiFlex ProX W



OptiFlex ProX C



OptiFlex ProX L

5.0 Nm³/h

3.0 Nm³/h

5.5 Nm³/h

5.5 Nm³/h

150 / 500 ml

300 / 600 ml

4 l

–

100 – 240 VAC

50 / 60 Hz

5 °C – +40 °C
41 °F – +104 °F

8 bar / 117 psi

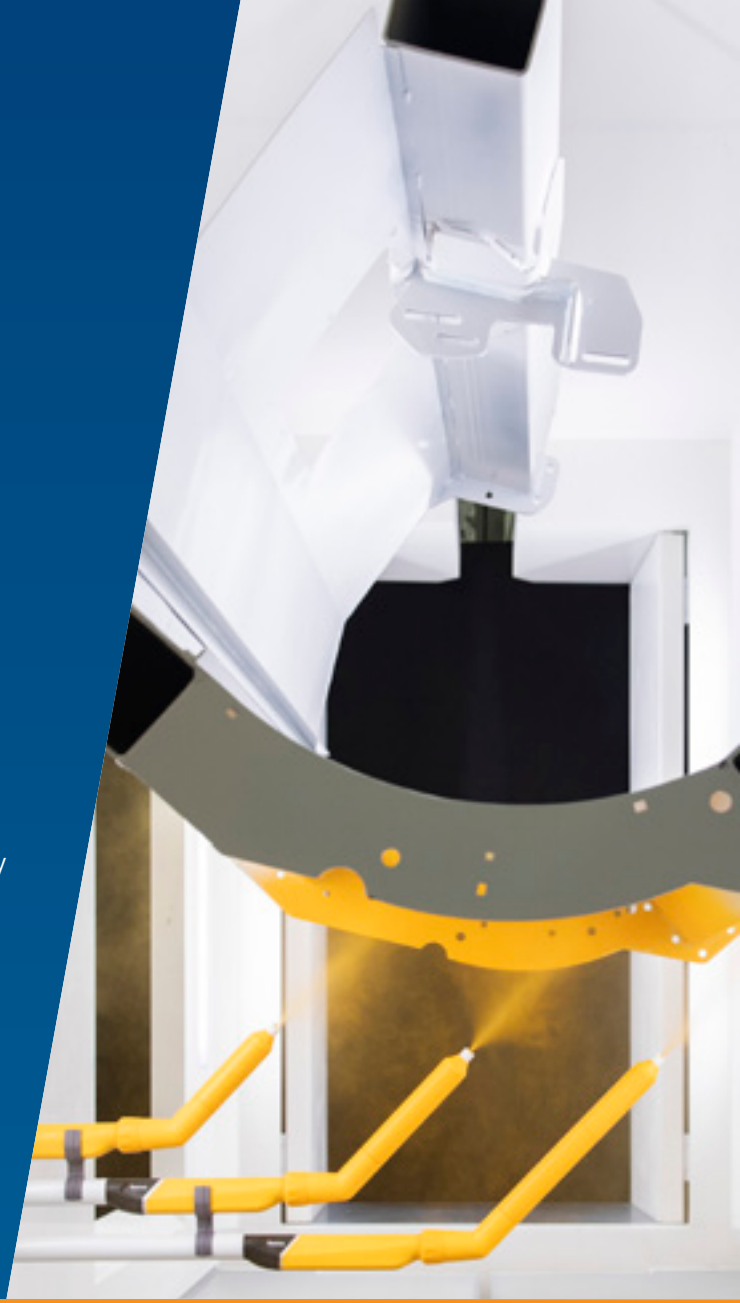
5.5 bar / 80 psi

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.



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Gema Switzerland GmbH

Sommeraustrasse 5 | 9200 Gossau | Switzerland
T +41 71 313 83 00 | www.gemapowdercoating.com

