

Reliability and flexibility for the powder coating into the 21st century



OptiFlex **B**



OptiFlex **F**



OptiFlex **S**



OptiFlex **C**



OptiFlex **L**

OptiFlex

- flexible
- ergonomic
- economical
- precise
- modern



product design award

2006





OptiSelect

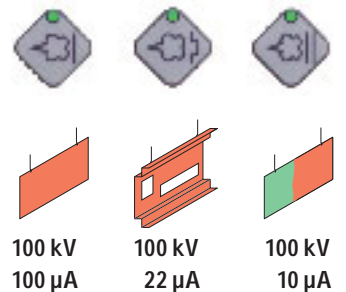
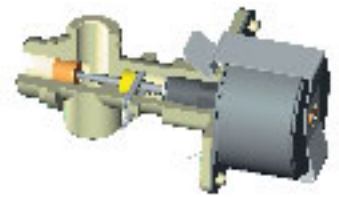
For fatigue-free coating, a manual gun has to be perfectly balanced, light and ergonomic. During the development phase of the **OptiSelect** series, a special focus was put on these important criteria. The on-gun remote control and the quick-change connector for the grounded powder hose also contribute to comfortable color change and quick coating.



OptiStar

The patented DVC technology (Digital Valve Control) guarantees a highly precise powder output and reproducible coating results.

High voltage, spraying current, powder output and total air volume are comfortably and precisely controlled via the foil keyboard. Up to 20 coating programs can be stored in the **OptiStar** control unit, which includes also 3 preset standard programs. They are perfectly configured to coat flat parts, complicated parts, recoat parts and can be easily selected via the display pilot. A purge program supports the cleaning of the powder hose.



OptiFlow

The most outstanding characteristics of this injector are its uniform powder transport and easy-clean internal design.

OptiFlex B For easy and quick color changes

OptiFlex B is especially designed for the use of original powder boxes. The inclined vibration plate allows complete emptying of the powder boxes via the fluid/suction unit.

The solid and very ergonomic unit ensures trouble-free treatment of all currently available powder types, even metallic powders!

OptiFlex B: quick and easy color changes carried out within a few seconds.

The system comes ready to use and can be put into operation after a short assembly time.

As an option, **OptiFlex B** is available as a double gun version suitable for spraying both sides of an on-line booth.



- | | |
|-------------------------|------------------------------------------------------------------|
| ① OptiStar control unit | ⑥ Vibration table |
| ② OptiSelect manual gun | ⑦ Swivel arm with guide bushing |
| ③ OptiFlow injector | ⑧ Air filter unit |
| ④ Solid frame | ⑨ Conductive powder hose |
| ⑤ Fluid/suction unit | ⑩ Storage compartment and space for 2 nd control unit |

OptiFlex F For constant use of bigger powder quantities

OptiFlex F features a 50-liter powder container that gently fluidizes the powder via an integrated fluid plate system. For easy handling, the powder container is equipped with 3 handles and cleaning is carried out very quickly as it can be completely disassembled.

The solid and very ergonomic unit ensures trouble-free processing of all currently available powder types, even metallic powders!

The system comes ready to use and can be put into operation after a short assembly time.

As an option, **OptiFlex F** is available as a double gun version suitable for spraying both sides of an on-line booth.



- | | |
|-----------------------------|------------------------------------------------------------------|
| ① OptiStar control unit | ⑥ Fluid plate |
| ② OptiSelect manual gun | ⑦ Airmover (ventilation) |
| ③ OptiFlow injector | ⑧ Air filter unit |
| ④ Solid frame | ⑨ Conductive powder hose |
| ⑤ 50-liter powder container | ⑩ Storage compartment and space for 2 nd control unit |

OptiFlex S Gentle processing for the most difficult powders thanks to the stirrer unit

OptiFlex S is ideally suited for difficult powders or climatically challenging environments. The unique stirrer unit completely processes powder quantities from 0.5 to 9 kg.

The solid and very ergonomic unit ensures trouble-free processing of all currently available powder types, even metallic powders!

OptiFlex S allows easy and quick color changes. The emptying is performed via a flap located underneath the stirrer container. The remaining powder is emptied directly into the original powder box.

The system comes ready to use and can be put into operation after a short assembly time.

As an option, OptiFlex S is available as a double gun version suitable for spraying both sides of an on-line booth.



- | | |
|-------------------------|------------------------------------------------------------------|
| ① OptiStar control unit | ⑥ Integrated stirrer unit |
| ② OptiSelect manual gun | ⑦ Flap emptying system |
| ③ OptiFlow injector | ⑧ Air filter unit |
| ④ Solid frame | ⑨ Conductive powder hose |
| ⑤ Powder container | ⑩ Storage compartment and space for 2 nd control unit |

OptiFlex C For tests at powder manufacturers' premises

The self fluidizing application cup with 500ml volume enables a perfect processing for 50–250gr, 3.5–14oz of powder. The integrated injector works perfectly with all different coating powders and the coating result can easily be reproduced. The application cup was designed for easy handling and fast color change. This unit is a perfect solution for single-part coating as well as for powder manufacturers. The application cup can also be readapted to already existing powder coating units. The **OptiFlex C** is a compact solution mounted on a heavy duty tabletop stand, which is a perfect solution for working on a workbench.



OptiFlex C

OptiFlex L For small quantity applications

The perfect solution for laboratory powder coating applications is the **OptiFlex L** (Lab unit) – designed for short runs and features a 4L (2 kg, 4 pounds) fluidizing powder hopper. This unit is easily and fast cleaned between color changes. The **OptiFlex L** is a compact solution mounted on a heavy duty tabletop stand, which is a perfect solution for working on a workbench for small amount of powder.



OptiFlex L

OptiFlex W

The **OptiFlex W** is the most flexible solution for an existing powder coating booth. Perfect for permanent installations where a cart is not required. The mounting bracket can be readapted to almost any style of booth.

Technical Data

Electrical Data	
Rated input voltage/Connected load	110 – 120 VAC/140 VA 230 – 240 VAC/140 VA
Frequency	50 – 60 Hz
Type of protection	IP 54
Temperature range	0 °C to +40 °C +32 °F to +104 °F

Pneumatical Data	
Max. input pressure	10 bar/145 psi
Min. input pressure (dynamical)	6 bar/87 psi
Max. water vapor content of compressed air	1.3 g/Nm ³
Max. oil vapor content of compressed air	0.1 mg/Nm ³
Max. compressed air consumption	11 Nm ³ /h

Dimensions OptiFlex B	
Width	690 mm
Depth	800 mm
Height	1135 mm
Weight	58 kg
Max. size of powder box W × D × H	510 × 500 × 390 mm
Max. compressed air consumption	8 Nm ³ /h

Dimensions OptiFlex F	
Width	690 mm
Depth	800 mm
Height	1135 mm
Weight	49 kg
Max. compressed air consumption	14 Nm ³ /h

Dimensions OptiFlex S	
Width	690 mm
Depth	764 mm
Height	1135 mm
Weight	61 kg
Max. compressed air consumption	10 Nm ³ /h

Dimensions OptiFlex C	
Width	444 mm
Depth	310 mm
Height	490 mm
Weight	12 kg
Max. compressed air consumption	10 Nm ³ /h

Dimensions OptiFlex L	
Width	654 mm
Depth	310 mm
Height	428 mm
Weight	16.5 kg
Max. compressed air consumption	10 Nm ³ /h



OptiFlex **B**



OptiFlex **F**



OptiFlex **S**



OptiFlex **C**



OptiFlex **L**



OptiFlex

Reliability and flexibility for the powder coating into the 21st century

Certificates

PTB
ATEX
FM

Manual gun: EX II 2D, EEX 2mJT6 (Type 1)
Control unit: EX II 3D
Degree of Protection: Manual gun = IP 64
Control unit = IP 54

ITWGema

ITW Gema AG
Mövenstrasse 17
CH-9015 St.Gallen
Switzerland

Tel. (+41) 71-313 83 00
Fax (+41) 71-313 83 83
info@itwgema.ch
www.itwgema.ch



ITW Gema AG reserves technical changes without prior notice

OptiFlex, OptiSelect, OptiStar and OptiFlow are registered trademarks by ITW Gema