

Gema Powder Coating Equipment



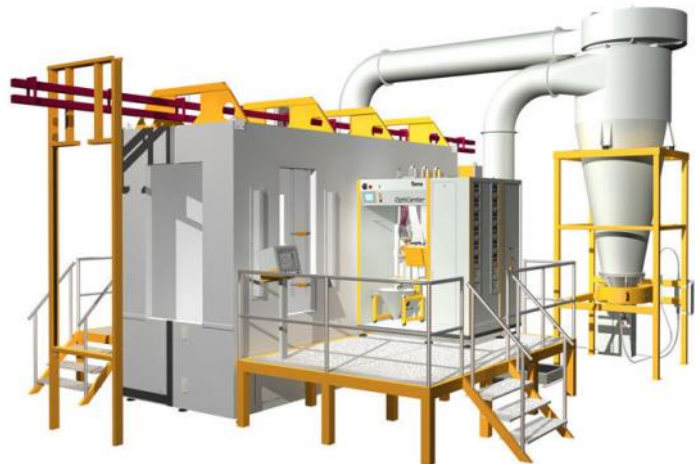
Surface Finishing
Equipment Group

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 :-

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Complete Finishing Systems (Finishing Plant UK)

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OptiFlow IG07

Single-component cartridge design providing even greater consistency for the powder flow



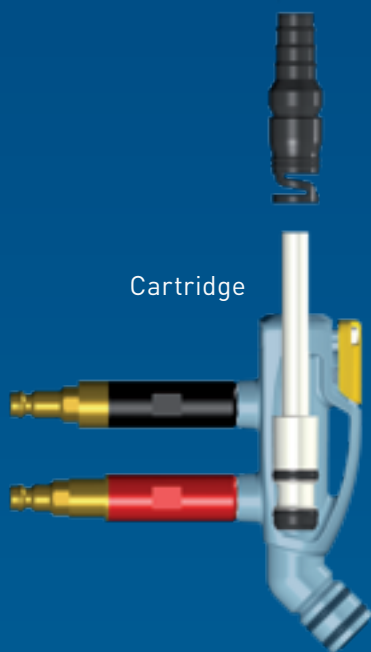
The first choice in injector technology

Benefit from the most advanced injector technology on the market!
The new OptiFlow injector ensures even greater long term consistency and repeatability of the powder flow.
The injector's unique single-component cartridge design reduces wear consumption, guarantees a long term consistent powder flow and enables even faster wear part exchange.

Your global partner for high quality powder coating

The Gema logo consists of a red stylized 'G' followed by the word 'Gema' in a bold, black, sans-serif font.

State-of-the-art injector technology



Single-component cartridge design

The new generation of OptiFlow Injector optimizes the Venturi principle in relation to transfer efficiency and minimal wear. Gema uses the unique Inline Design to consistently and gently transport the powder from the powder hopper to the powder gun. This maintains optimum powder condition and ensures minimal wear part consumption. By simply exchanging the innovative single-component cartridge incorporating the injector nozzle and conveying insert, the injector performance is optimally maintained. The usage of fewer parts and the seamless design of the injector improves the ability for fast color changes.

New injector technology - «Plug & Convey»

All connections are equipped with a robust quick release mechanism, disconnected and reassembled with ease. This «Plug & Convey» feature reduces maintenance and accelerates the color change time.



Key features OptiFlow injector

- Cartridge design merges injector nozzle and conveying insert into a single component
- Powder outputs of up to 450 g/min achievable depending upon hose length and diameter
- Quick release design for the powder hose
- Unique Inline Design
- Cartridge sleeve manufactured from high quality non stick materials
- Robust diecast injector housing
- Quick disconnect air connections



Precise and reliable powder flow

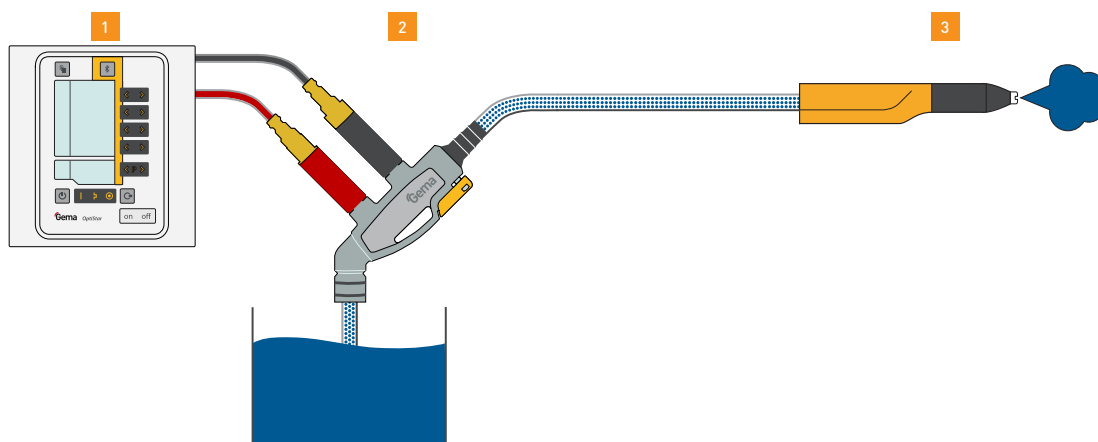
Customer benefits OptiFlow injector

- Innovative single-component cartridge design for consistent powder output
- Consistent powder flow for uniform film thickness
- Colour change optimized through Inline Cartridge Design
- Quick and easy maintenance through simply replacement of the easily accessible cartridge
- «Plug & Convey» function for fast color change and cleaning
- Ease of integration into existing coating systems



Perfect component interaction for optimum coating results

- 1 The OptiStar control unit precisely controls and adjusts all pneumatic and electrostatic parameters of the application.
- 2 The OptiFlow injector precisely conveys the powder from the powder supply to the gun ensuring a consistent powder flow and uniform film thickness.
- 3 OptiGun powder guns offer the highest transfer efficiency and perfect quality for every application and are the ideal solution for frequent color changes.



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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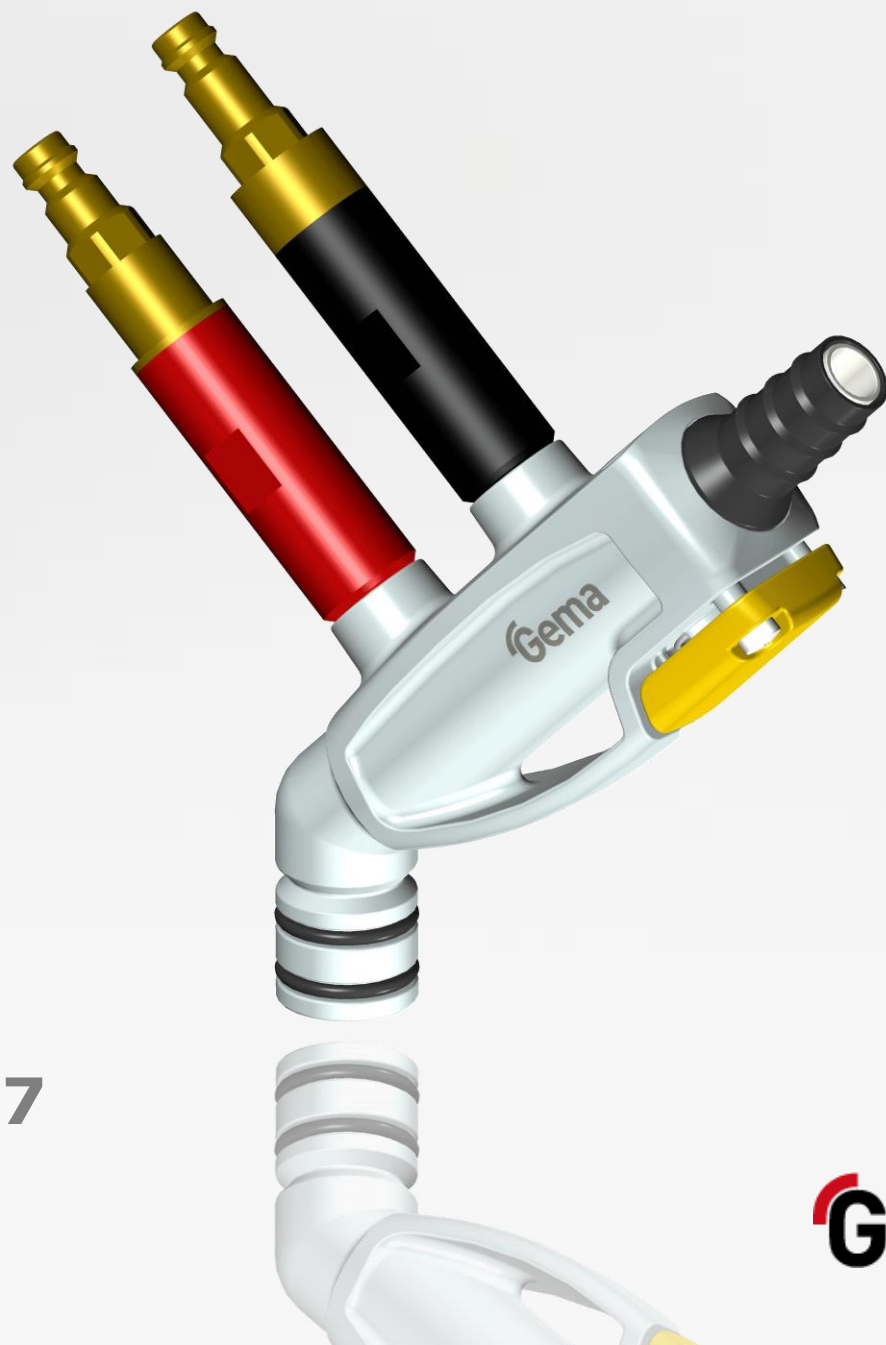
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OptiFlow

Inline Injector IG07

Gema

OptiFlow IG07 - First choice injector technology

The injector's unique single-component cartridge design reduces wear consumption, guarantees a long term consistent powder flow and enables even faster wear part exchange.

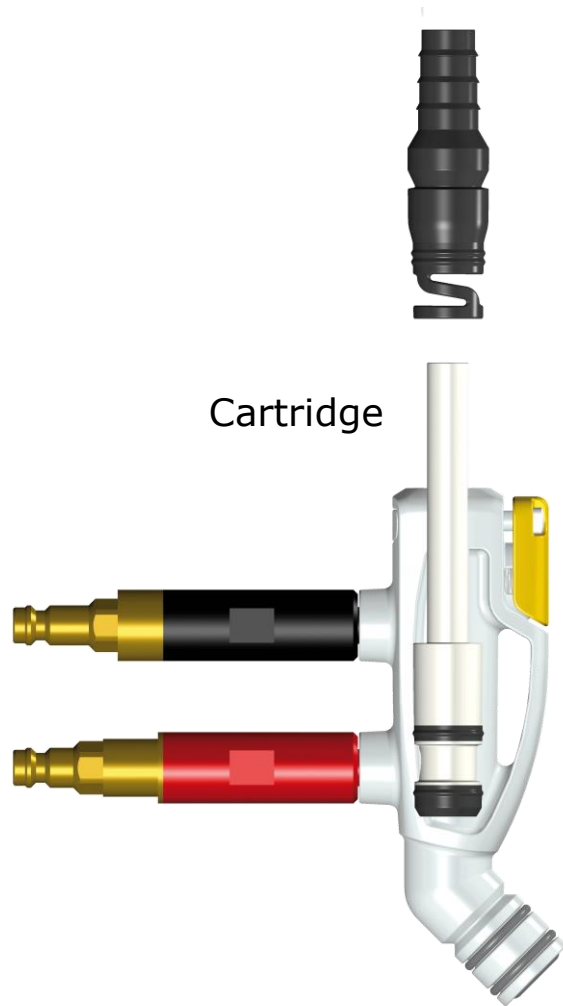


High performance
powder conveying

Cartridge design
Nozzle + Sleeve

Powder flow Inline
Design

State-of-the-art injector



- **Single-component cartridge design**

By simply exchanging the innovative cartridge, the injector performance is optimally maintained

- **Plug & Convey**

All connections are equipped with a robust quick release mechanism, disconnected and reassembled with ease

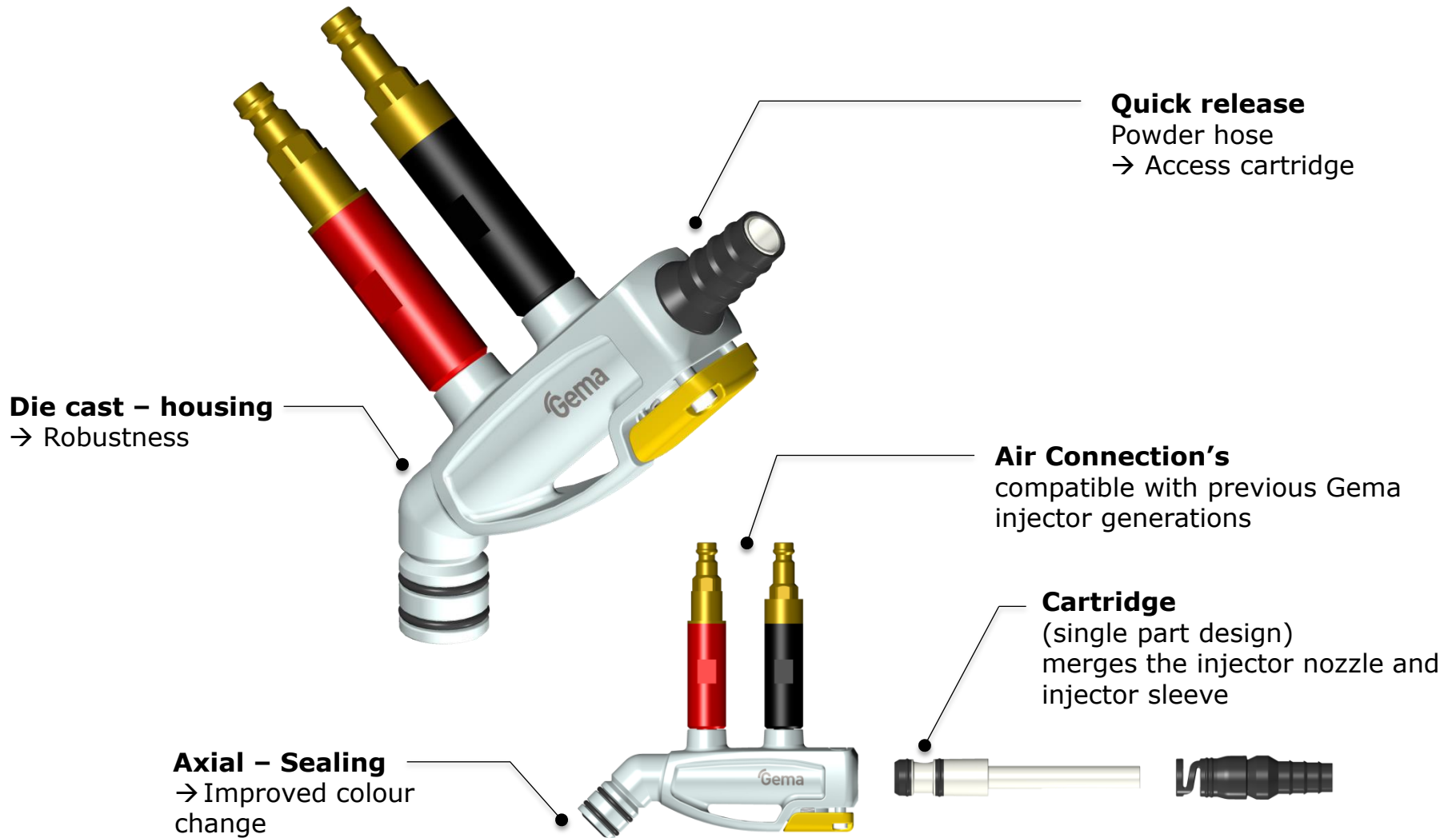
- **Inline design**

Unique injector geometry for accurate powder conveying and color change

Result

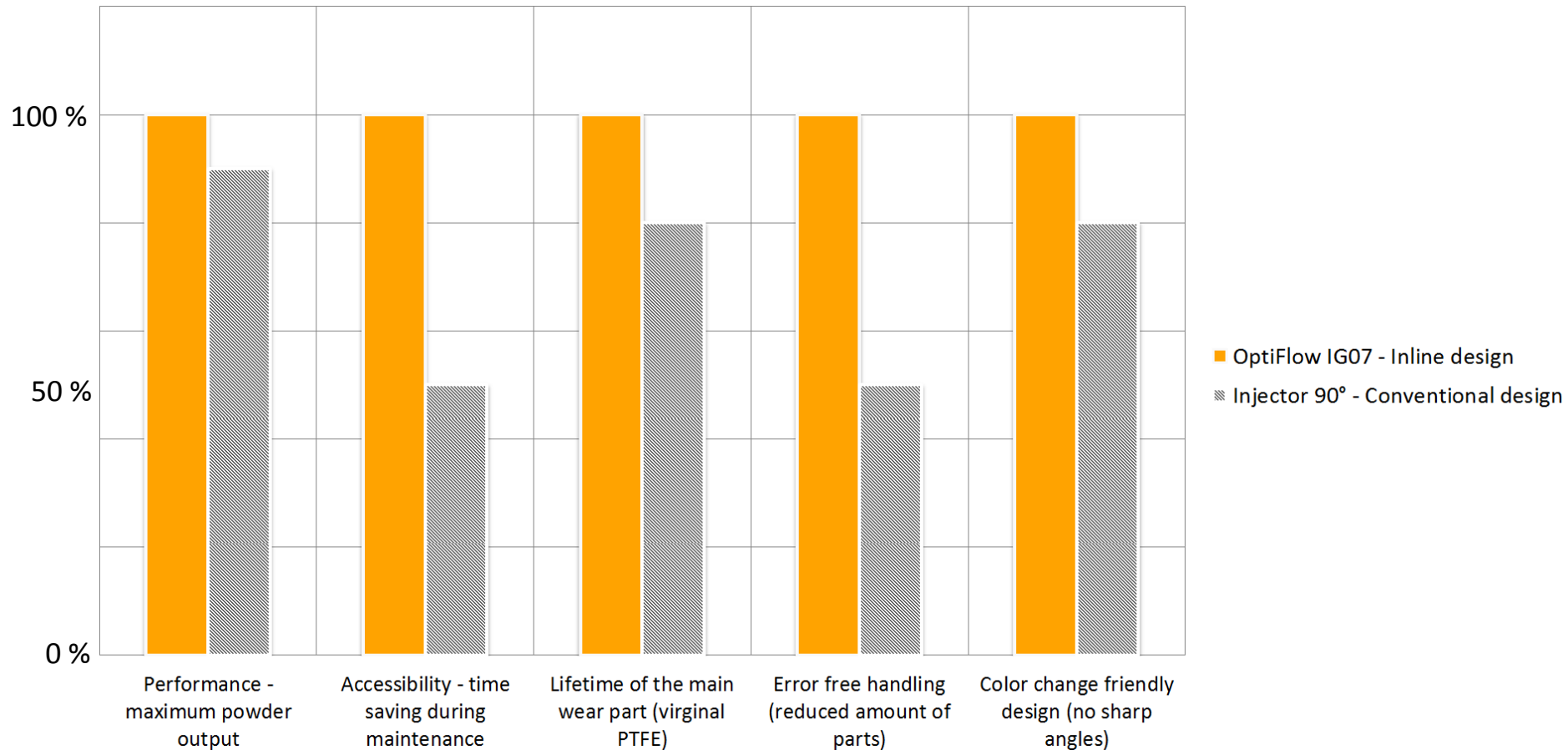
- Consistent powder output
- Quick and easy maintenance

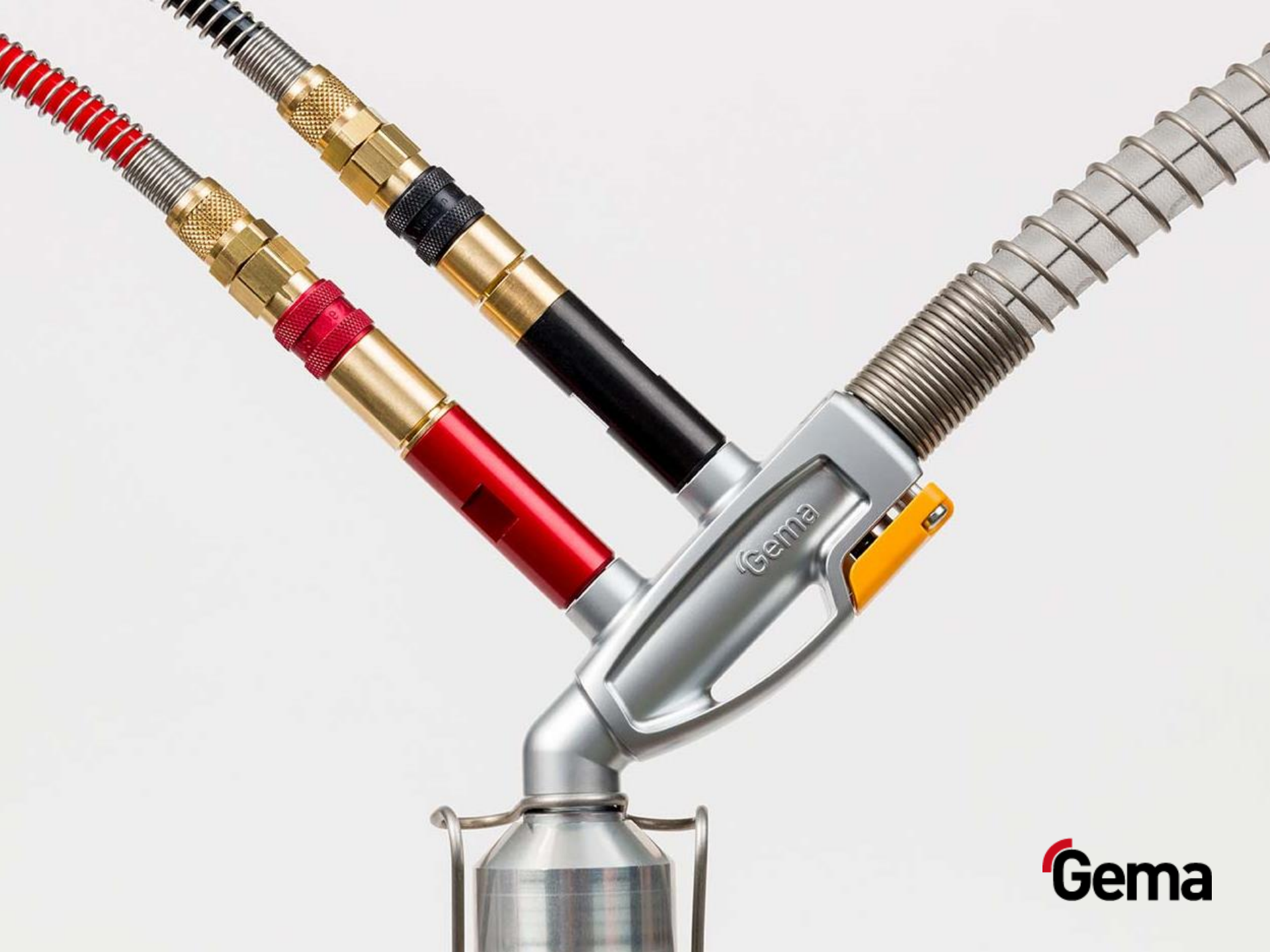
OptiFlow IG07- Design features



OptiFlow IG07- Technology comparison

Performance capacity [%]





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