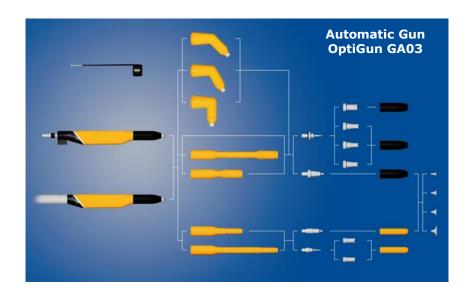
Gun nozzles for every application

Different extensions, flat spray, round spray and angle nozzles are designed to offer the best results even with difficult applications.





Highest powder transfer efficiency

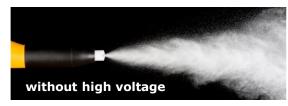
Perfect powder distribution

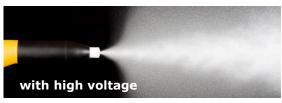
Consistent application quality



Gun nozzle design

- Powder coating requires a perfect combination of nozzle design and high voltage supply to achieve an homogeneous powder cloud.
- The high voltage field plays a very important role ensuring a perfect powder atomization and charging.
- Different object geometries to be coated require different nozzle geometries to ensure that the powder cloud is ideal and at the right speed.



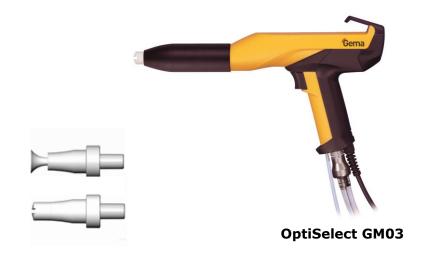






Gun nozzles and extensions

- The nozzles and extensions are interchangeable for the manual and automatic guns, thanks to the compatible and smart gun shaft design.
- All nozzles and extensions are compliant to the ATEX directives.
- The use of high quality non-stick materials prevents powder accumulations and allows a high quality color change.

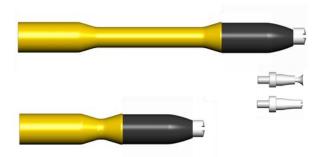




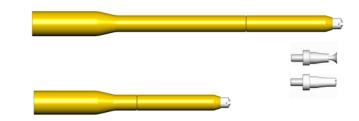
OptiGun GA03

Extensions for round and flat jet nozzles

 Manual and automatic guns can be provided with robust and solid nozzle extensions of 150 and 300 mm length. These nozzles are interchangeable with the standard nozzles and offer a perfect flexibility of use.



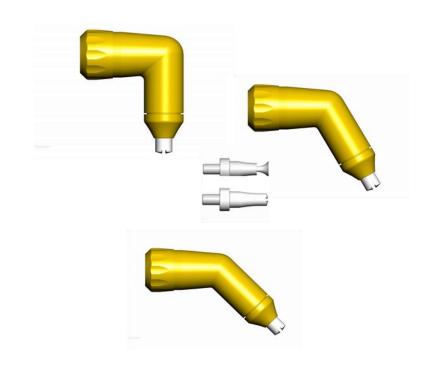
- Special smaller and lighter-weight extensions are also available.
 - In manual applications they offer easy and stress-free operation over a long working time.
 - In automatic application, they are ideal for inside coating of narrow areas like in boilers.





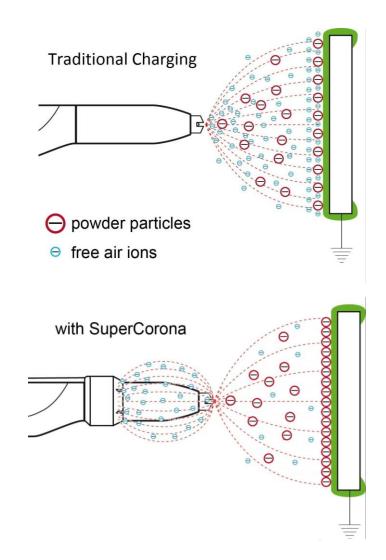
Angle nozzles for special applications

- A wide range of 45°, 60° and 90° angle nozzles are available for challenging applications.
- The typical area of use are complex geometries like profiles, chassis, beam frames and cabinet coating.
- The angle nozzles are also ideal for variety of applications where fixed guns are needed.



SuperCorona add-on to improve quality

- In a corona gun the high voltage electrode generates a big quantity of air ions
- Only a few air ions really charge the powder particles, the other ions remain free and are attracted by the surface to coat (which is grounded).
- The high accumulation of free ions on the surface to coat can produce an uneven powder layer and the so called "orange peel effect" or "back-ionization" problems.
- SuperCorona discharges the excessive free ions to ground and avoids overcharging of the powder and of the surface to coat.

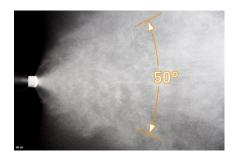




Flat jet nozzles: NF20, NF21, NF22

Flat jet nozzle type NF20

Angle = **50°**Velocity = **moderate - low**Distance to object maximal = **250 mm**



Application

Standard manual nozzle

- flat parts
- profiles

Flat jet nozzle type NF21

Angle = **30°**Velocity = **high**Distance to object maximal = **400 mm**



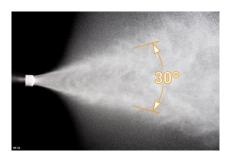
Application

Automatic & manual nozzle

- complex parts (deep recess)
- target spraying

Flat jet nozzle type NF22

Angle = **30°**Velocity = **high**Distance to object maximal = **450 mm**



Application

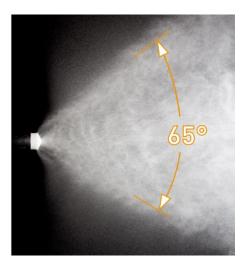
- complex parts (deep recess)
- target spraying
- robot applications



Flat jet nozzles: NF24, NF25

Flat jet nozzle type NF24

Angle = **65°**Velocity = **low**Distance to object maximal = **200 mm**



Application

Automatic & manual nozzle

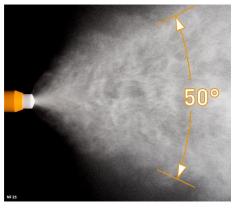
- large object
- flat parts
- complex parts when nozzle close to the object

Flat jet nozzle type NF25 (mini)

Angle = **50°**Velocity = **moderate - low**Distance to object maximal = **250 mm**

Remark:

In combination with **extension Ø 25mm**, reduced diameter to penetrate into cavities /Powder cloud like NF20



Application

- flat parts
- profiles

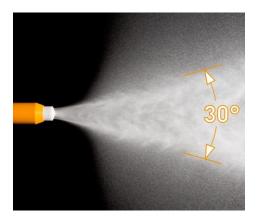
Flat jet nozzles: NF26, NF27

Flat jet nozzle type NF26 (mini)

Angle = **30°**Velocity = **high**Distance to object maximal = **450 mm**

Remark:

In combination with **extension Ø 25mm**, reduced diameter to penetrate into cavities



Application

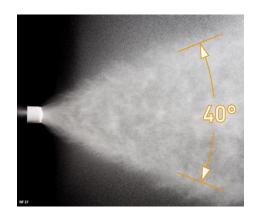
Automatic & manual nozzle

- complex parts (deep recess)
- target spraying
- robot applications

Flat jet nozzle type NF27

Angle = **40°**Velocity = **high - moderate**Distance to object maximal = **350 mm**

Remark: Alternative for large flat objects or complex parts, when nozzle close to the object = NF24



Application

Standard automatic nozzle

- Profiles
- complex parts,
- flat parts

The NF27 requires a minimal clearance between object and nozzle.



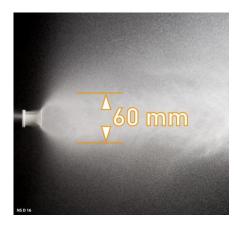
Round jet nozzle NS09 deflector 16/24

Round spray nozzle type NS09 Deflector **Ø16** mm

 $\emptyset_{\text{maximal}}$ Powder cloud = **60 mm**

Velocity = **low**

Distance to object maximal = **120 mm**



Application

Automatic & manual nozzle

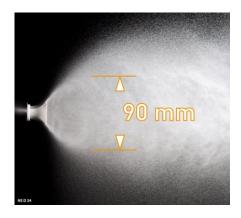
- flat parts
- low speed coating
- powder cloud 60mm

Round spray nozzle type NS09 Deflector **Ø24** mm

 $\emptyset_{\text{maximal}}$ Powder cloud = **90 mm**

Velocity = **low**

Distance to object maximal = **160 mm**



Application

- flat parts
- low speed coating
- powder cloud 90mm

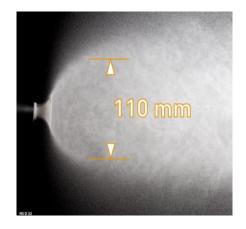
Round jet nozzle NS09 deflector 32/50

Round spray nozzle type NS09 Deflector **Ø32** mm

 $\emptyset_{\text{maximal}}$ Powder cloud = **110 mm**

Velocity = **low**

Distance to object maximal = **160 mm**



Application

Automatic & manual nozzle

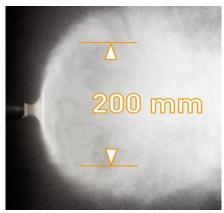
- flat parts
- low speed coating
- powder cloud 110 mm

Round spray nozzle type NS09 Deflector Ø50 mm

 $\emptyset_{\text{maximal}}$ Powder cloud = **200 mm**

Velocity = **low**

Distance to object maximal = **180 mm**



Application

- flat parts
- low speed coating
- · powder cloud 200 mm