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

Gun nozzles for every application

- Highest powder transfer efficiency
- Perfect powder distribution
- Consistent application quality

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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.
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.

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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
Automatic & manual nozzle
• complex parts (deep recess)
• target spraying
• robot applications

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**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**

- Automatic & manual nozzle
- flat parts
- profiles
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

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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

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**Application**
Automatic & manual nozzle
• complex parts (deep recess)
• target spraying
• robot applications

**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**

- $\varnothing_{\text{maximal}}$ 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**

- $\varnothing_{\text{maximal}}$ Powder cloud = 90 mm
- Velocity = low
- Distance to object maximal = 160 mm

**Application**
- Automatic & manual nozzle
- flat parts
- low speed coating
- powder cloud 90mm
Round jet nozzle NS09 deflector 32/50

Round spray nozzle type NS09
Deflector Ø32 mm
Ø\text{maximal} Powder cloud = 110 mm
Velocity = low
Distance to object maximal = 160 mm

Round spray nozzle type NS09
Deflector Ø50 mm
Ø\text{maximal} Powder cloud = 200 mm
Velocity = low
Distance to object maximal = 180 mm

Application
Automatic & manual nozzle
• flat parts
• low speed coating
• powder cloud 110 mm

Application
Automatic & manual nozzle
• flat parts
• low speed coating
• powder cloud 200 mm

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