

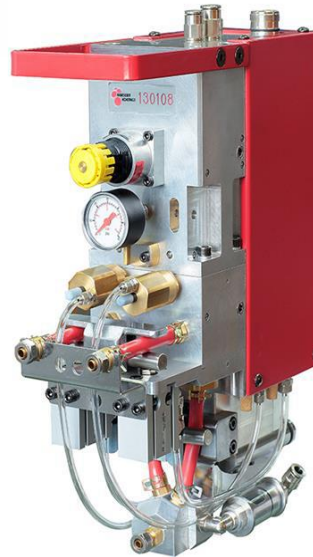


Sistemi di verniciatura industriale
automatismi ed impianti

POWDER COATING SYSTEMS AND PLANTS

Soft Spray

Innovation for powder coating



C.M. SPRAY S.R.L. Via T. Salsa, 10 z.i. 31030 CARBONERA (TV) ITALY

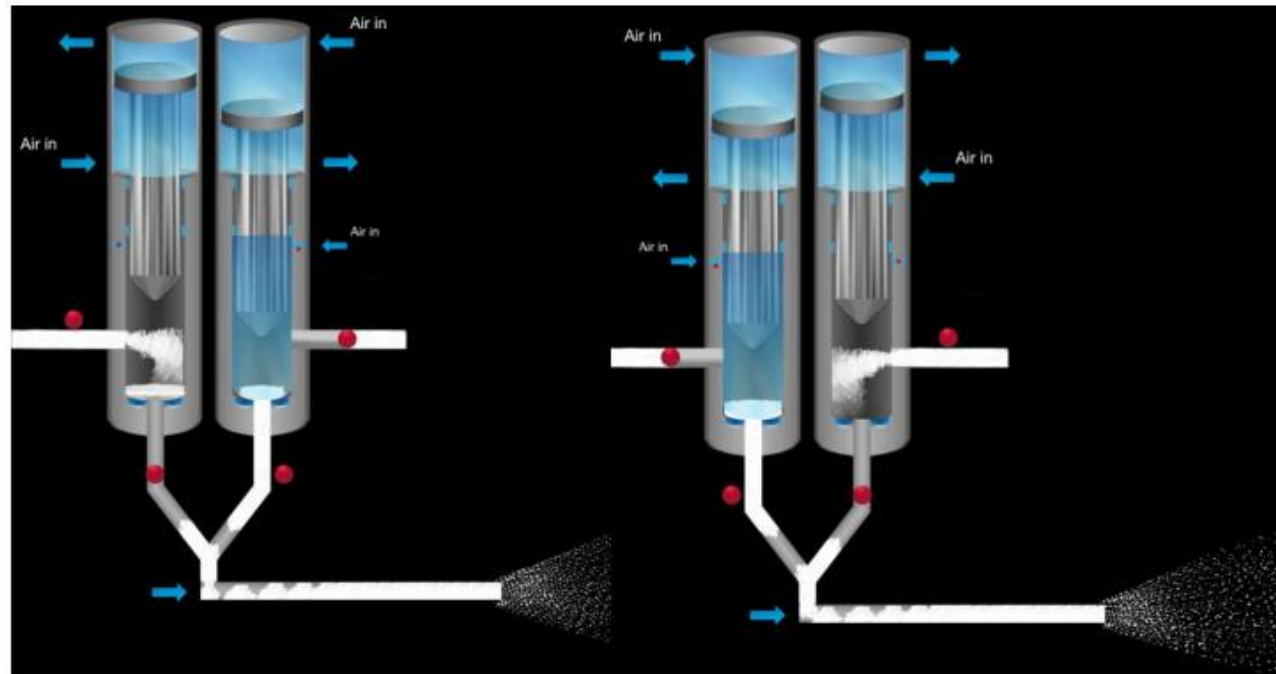
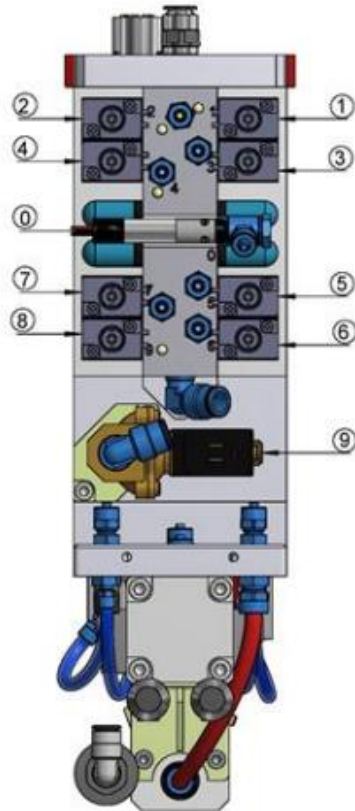
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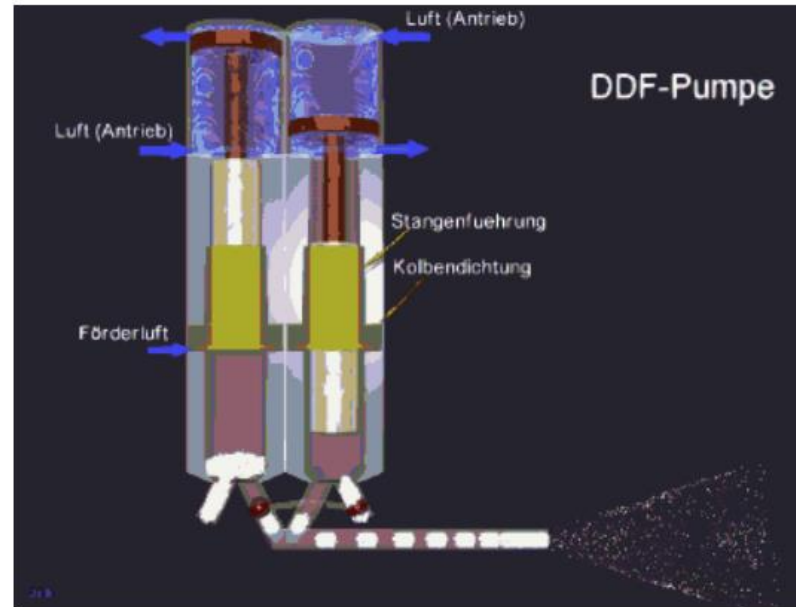
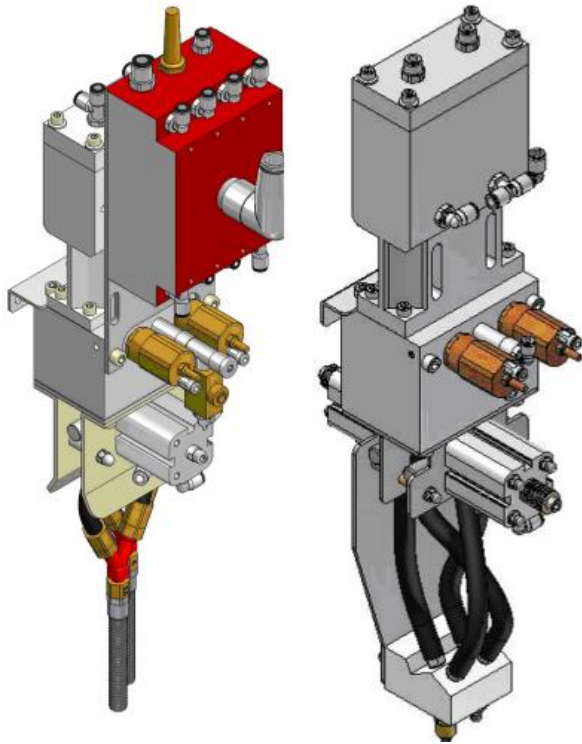
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DDF4 Principio de Funcionamiento



DDF2 Principio de Funcionamiento



Pol. Ind. Salinas, C/ Valencia 12A – 08830 Sant Boi de Llobregat (Barcelona – España)

Advantages of the DDF pump system compared to Venturi injector technology

Soft powder spray, therefore better transfer efficiency

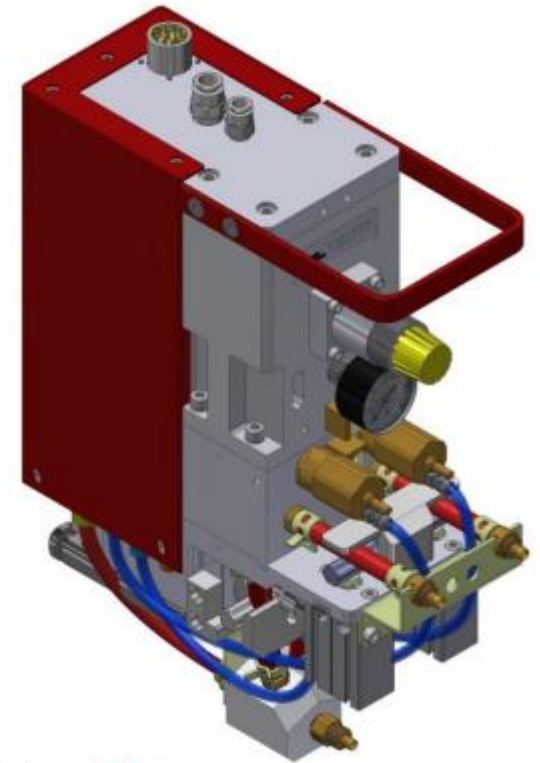
DDF – Pumpe
Pulverausstoß 110 g / min



Injektortechnik
Pulverausstoß 150 g / min



- Minimal return effect
- Better charge of extrafine dust particles
- Better penetration into difficult areas with low powder speed
- Low Overspray, therefore little dust in the booth and speed in cleaning



Advantages of the DDF pump system compared to Venturi injector technology

Few parts subject to wear



Injectors, replacement approx. every 4 weeks

Y-piece on DDF pump replacement approx. 1 year (for one work shift)

Replacement of powder hose with injector technology: minimum 1 time/year

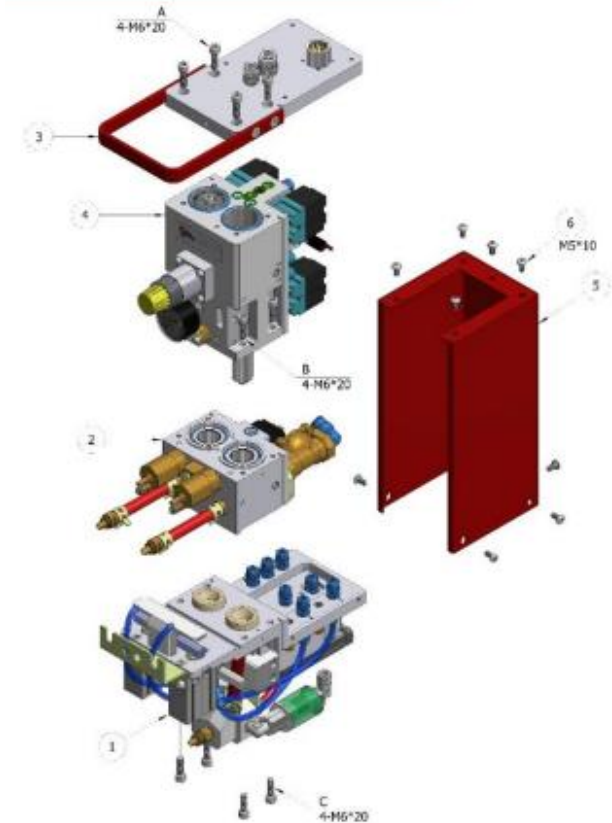
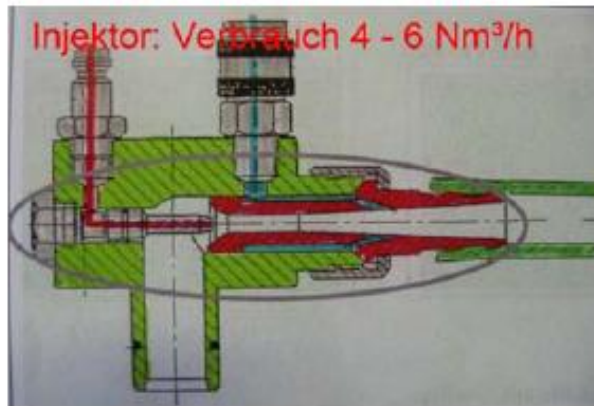
Replacement of powder hose with DDF: None!

Advantages of the DDF pump system compared to Venturi injector technology

Air saving

Venturi injector: 4-6Nm³/h

DDF pump: 2 Nm³/h



Advantages of the DDF pump system compared to Venturi injector technology

Less waste of powder



Powder lost with conventional systems:

Powder lost through fluidization (more than 2%)

Powder lost when cleaning the power unit

Powder lost from cleaning the injectors, pipes and cyclone

Powder lost with color change: 3-5 kg

Increased performance quality with DDF technology

Soft atomization regardless of the quantity of powder delivered

Venturi injectors: with high quantity of powder the air speed increases, therefore controlling the spray projection is more difficult

DDF-technology: constant air consumption with high amount of powder!
the spray projection remains totally soft!

Increased performance quality with DDF technology

- ☑ **Soft atomization regardless of the quantity of powder delivered**



**Powder spray projection using DDF
technology**

Increased performance quality with DDF technology

- ☑ **Docile powder transport with low travel speed**
- ☑ **no polymerized residue and low friction inside the powder tubes**
best finishing result with thermally sensitive paints
no separation defects with the constant use of metallic powders,
no separation of pigments with bonderized powders
- ☑ **Soft spray projection with low separation between larger and smaller powder particles**
- ☑ **Best charge of ALL powder particles (large/small), therefore low kV parameters used.**
This will result in a better distribution of the paint film especially for difficult pieces.
- ☑ **Greater consistency with thin films of powder to be deposited**
- ☑ **Consistency even for powder films >150 µm**