OptiSpray - Smart Inline Technology

Step 1 – Suction Vacuum sucks

a powder packet into the Main Chamber.

Vacuum

The complete cycle lasts 0.33 seconds!

Step 2 - Output Second Chamber

Transportation Air pushes powder to the Second Chamber and to the gun.

Transportation Air



Improved charging and application quality

Main Chamber

Linear powder flow, efficient color change

Consistent performance and powder savings

Consistent performance and powder savings

 The OptiSpray pumps thanks to the wear-free Smart Inline Technology can deliver constant powder output for a long period of time

No performance decrease due to parts wearing

Constant powder output over long time

- Constant coating thickness
- Constant powder savings
- Repeatable coating result
- Constant quality

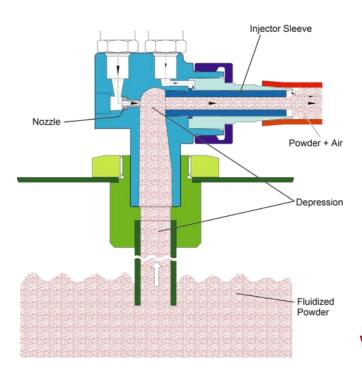


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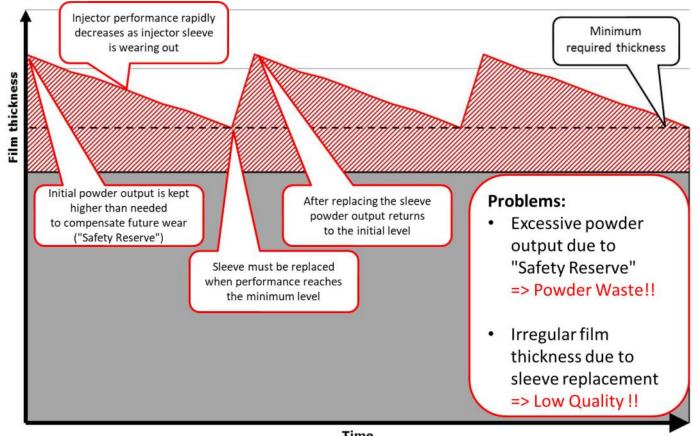
Traditional Venturi Technology

- The injector's nozzle blows compressed air into the Venturi chamber, through the injector sleeve
- This creates depression in the injector chamber that sucks powder from the fluidized hopper
- Powder + air is conveyed to the gun

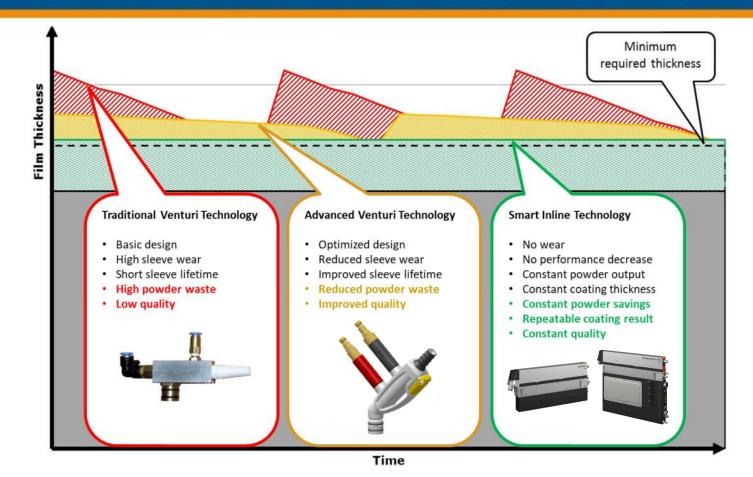
- Powder progressively wears out the injector sleeve: as injector sleeve wears out, performance decreases!
- Large powder output requires more air through the injector nozzle: possible application problems, lower transfer efficiency!



Traditional Venturi Technology



Consistent performance and powder savings



Improved charging and application quality

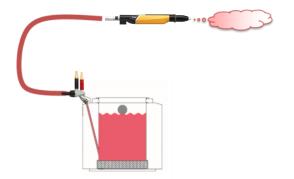
 The OptiSpray pumps thanks to the Smart Inline Technology can transport high amount of powder to long distances with just minimum amount of air.

- Easier optimization of powder application
- Softer and more efficient powder cloud
- Improved powder charging and transfer efficiency
- More powder on the parts, less waste in the recovery system
- Optimal application in all conditions
- Improved coating performance

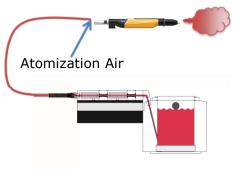


Improved charging and application quality

- **Venturi Injectors** need larger hoses and higher amount of air to transport powder.
- Excessive air amount necessary with long hoses and high powder output can determine too high powder velocity at the gun nozzle.
- Less efficient powder charging
- Possible application problems
- Reduced transfer efficiency
- More overspray and powder losses

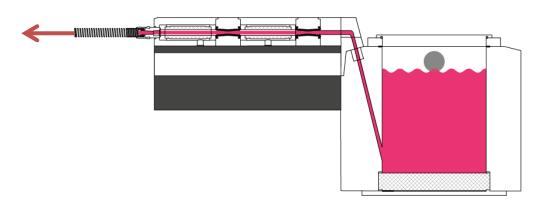


- The **OptiSpray pumps** convey the powder to the gun with just a little amount of air.
- Optimal atomization air is added at the back of the gun. This allows softer and denser powder cloud even with long hoses and high powder output.
- Ideal powder charging in all conditions
- **Optimal application performance**
- **Highest transfer efficiency**
- More powder on parts, less waste



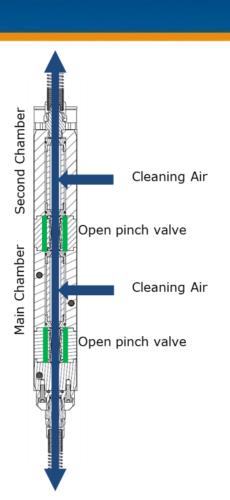
Linear powder flow, efficient color change

- The OptiSpray pumps features a straight and linear power path.
- Powder is gently moved always in the same direction, from the hopper to the gun.
- No need for complicated parallel pumping chambers where powder can accumulate.
- The OptiSpray design is ideal for easy blow-through cleaning.
- The automatic purging process further simplifies the deep cleaning of the pump
- OptiSpray offers the best design for color change.



Automated purging program

- The OptiSpray pumps can be cleaned with an automated purging program.
- Cleaning air is introduced in both chambers and flows in both directions.
- The chambers' fluid material is deeply cleaned
- The pick-up hose from the hopper to the pump is purged
- The transport hose from the pump to the gun is purged



Ideal integration in OptiCenter

- OptiSpray pumps can be integrated in the OptiCenter for the best operating performance and the easiest cleaning.
- Compact pump positioning for the most efficient powder transport.
- Fresh Powder Feed options for constant application quality.
- Clean environment for easy cleaning and color change.



