

System-Integration Application Pump OptiSpray AP01



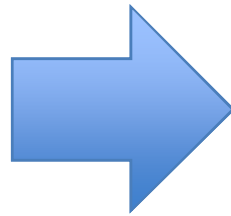
Gema

Your global partner for high quality powder coating

OptiSpray AP01

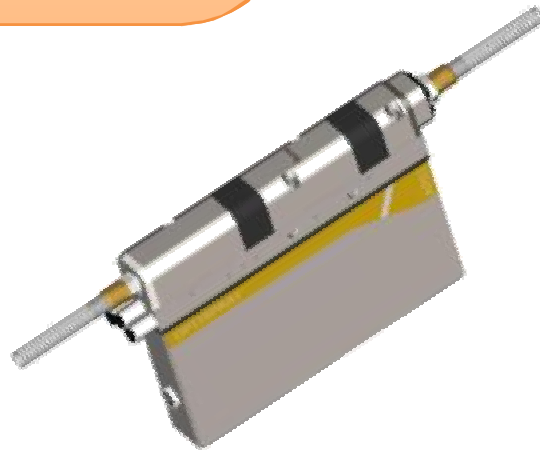
Key Features

- Inline concept
- Single chamber
- Superior technology
- Easy integration



Key Benefits

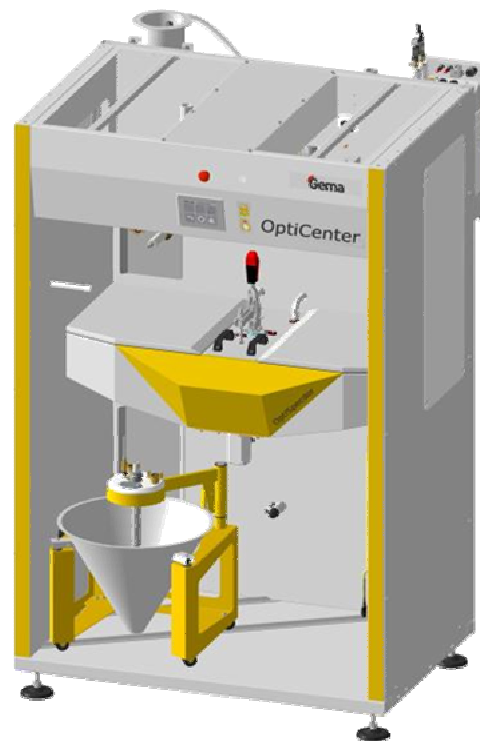
- 15% powder savings
- Application quality
- Easy color change
- Easy maintenance



System Integration OptiSpray AP01

OptiCenter OC03

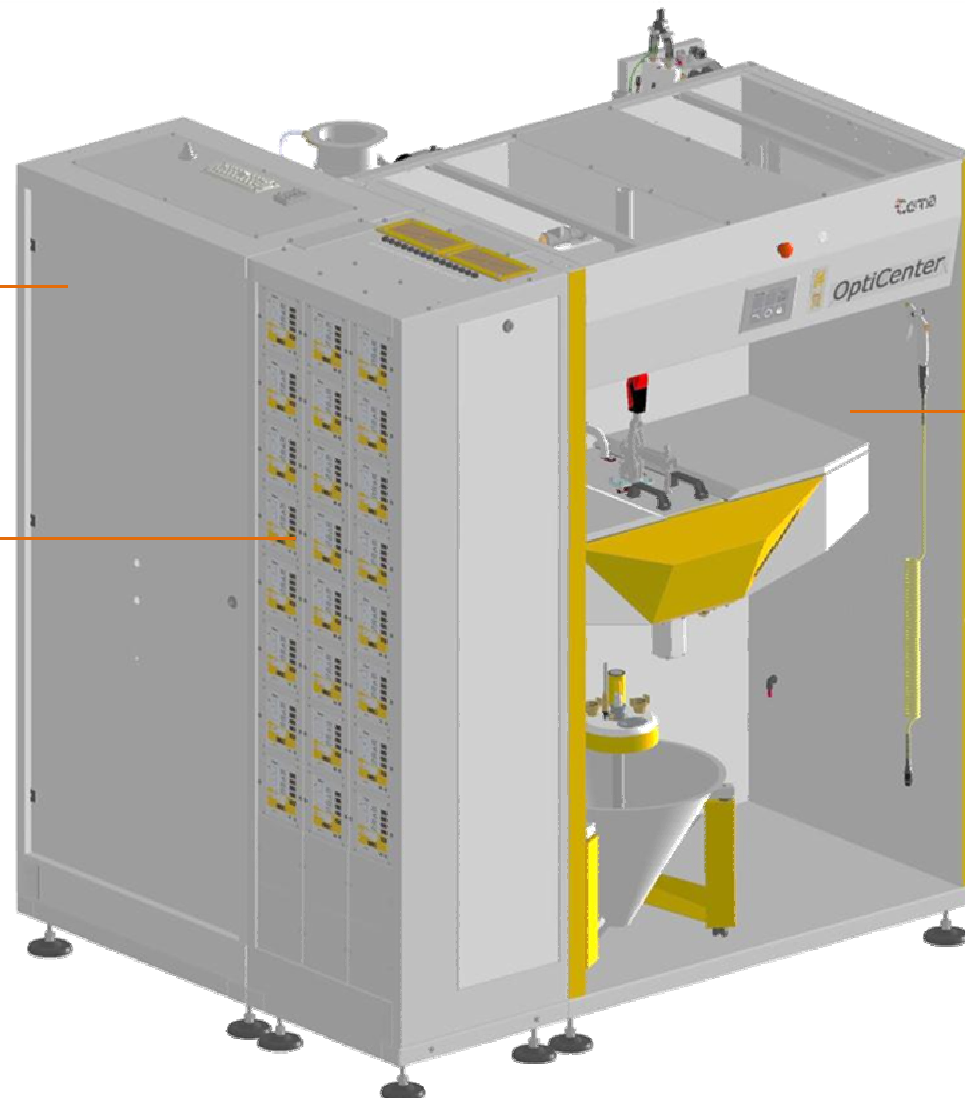
+ OptiSpray AP01



Overview OptiCenter OC03

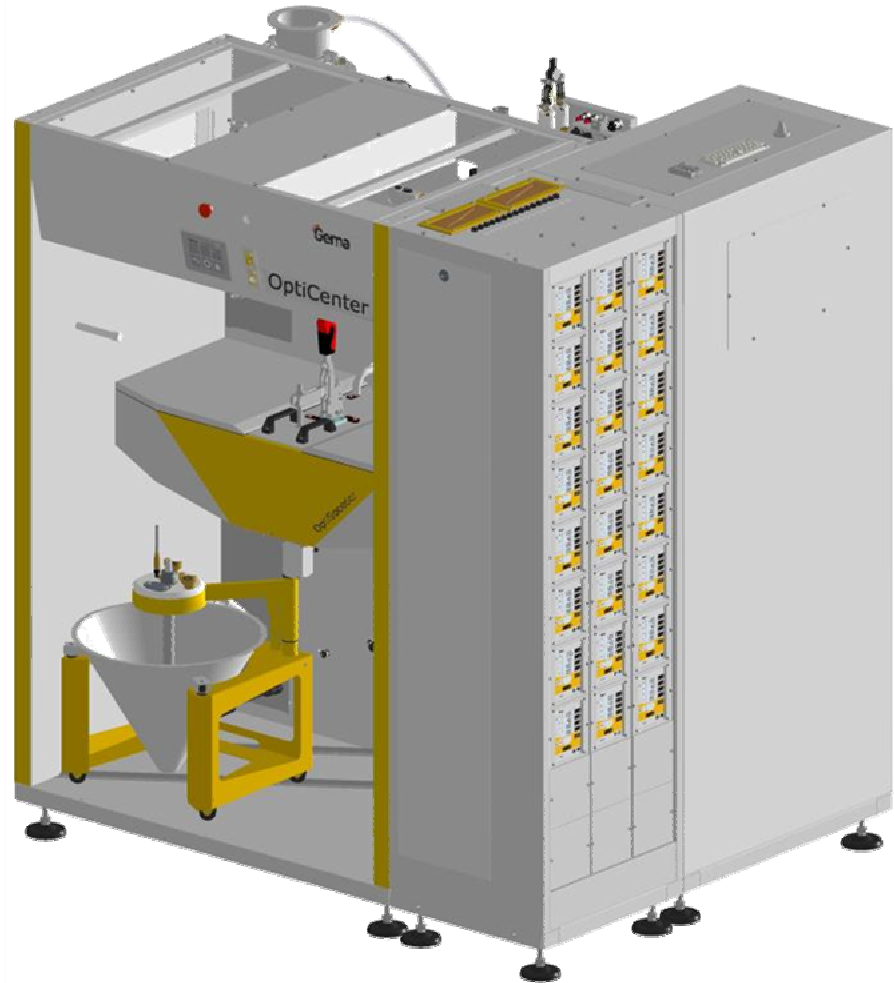
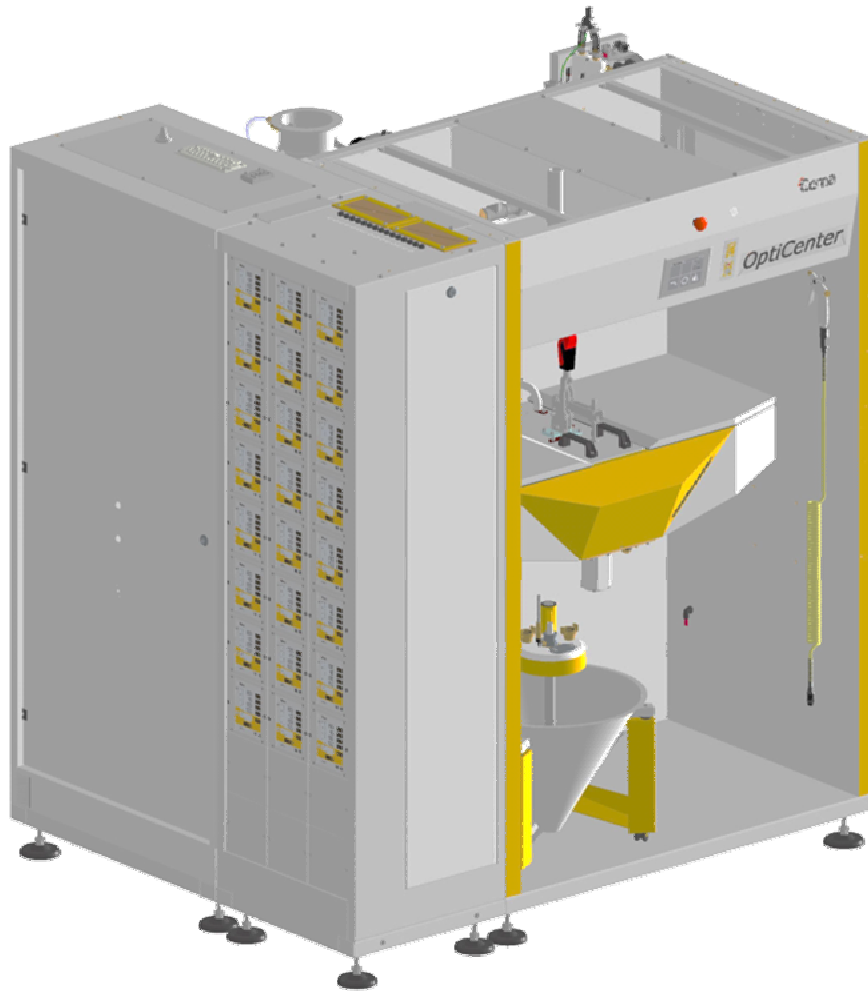
ICS 04
Electronics

AS06
Gun Control
Axis Control

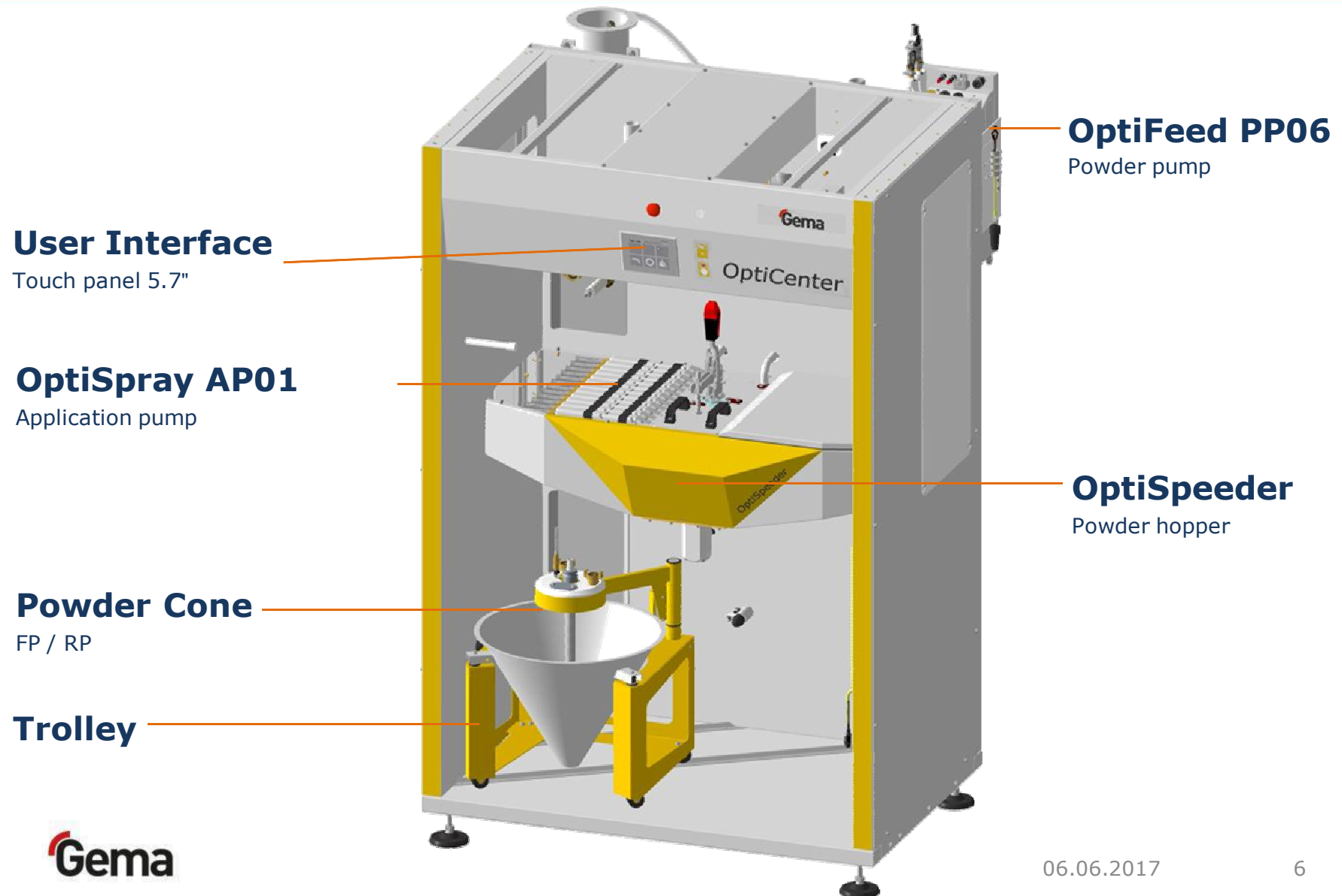


OptiCenter OC03
Powder management

Overview OptiCenter OC03



Overview OptiCenter OC03



Key Features OptiCenter OC03

Excellent coating quality

- Short suction tubes
- Continuous mix of fresh and recovery powder
- Gentle powder conveying

Quick color change

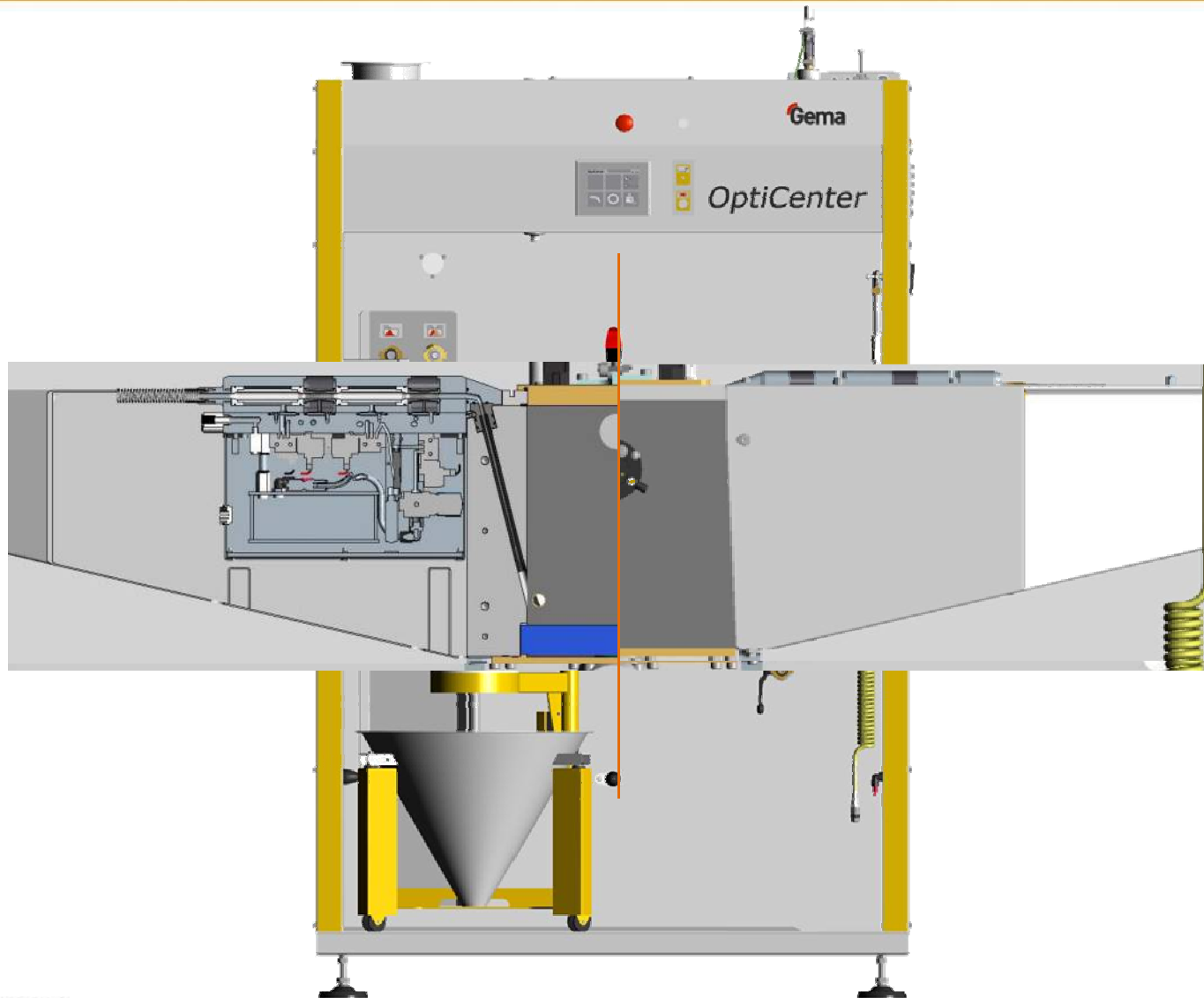
- Automated cleaning procedure
- Efficient powder management
- Closed loop powder circuit

Compact design

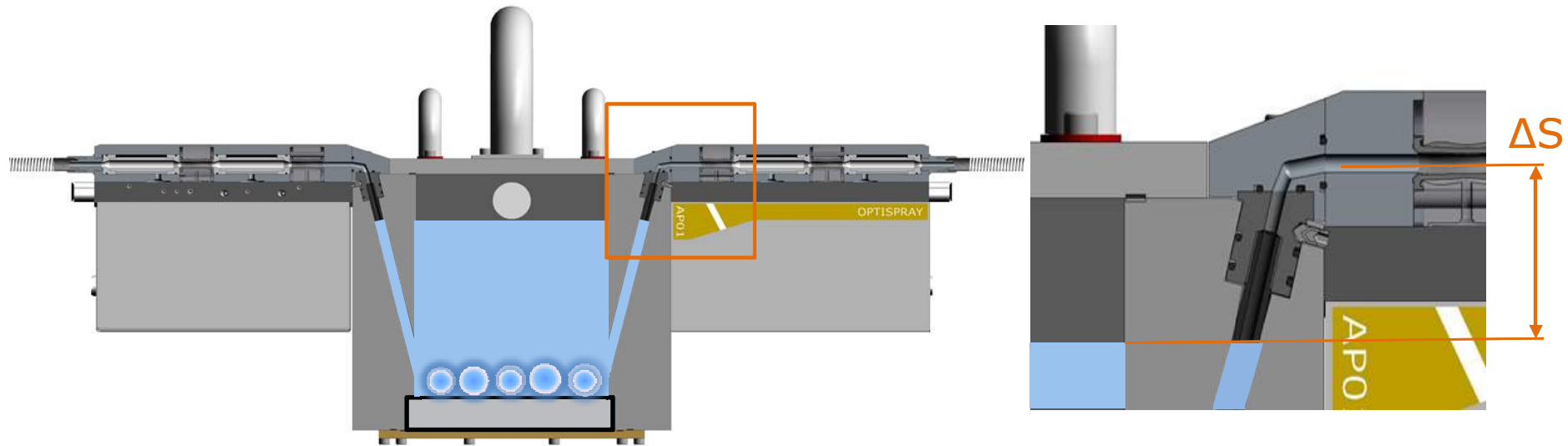
- Electrostatic + powder management
- Flexible variety of configuration



OptiCenter OC03: Pumps Integration



OptiCenter OC03: Pumps Integration



OptiSpeeder *(Cross section)*

- Closed powder hopper
- Volume for 5 kg of powder
- up to 24 Guns

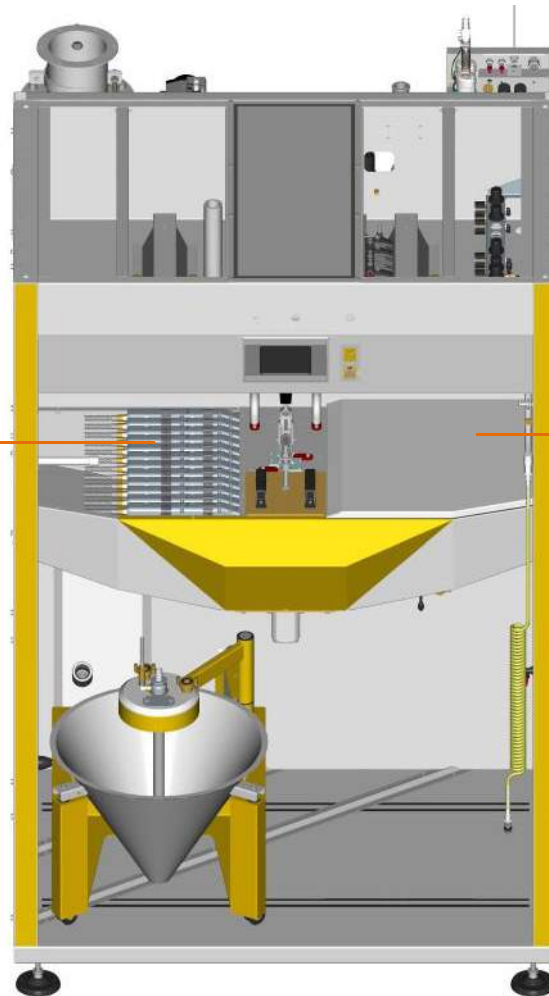


Precise powder flow

- constant powder level
 - short suction tubes
- Excellent for quick response

OptiCenter OC03: Pumps Integration

OptiSpray AP01
12x left (max)



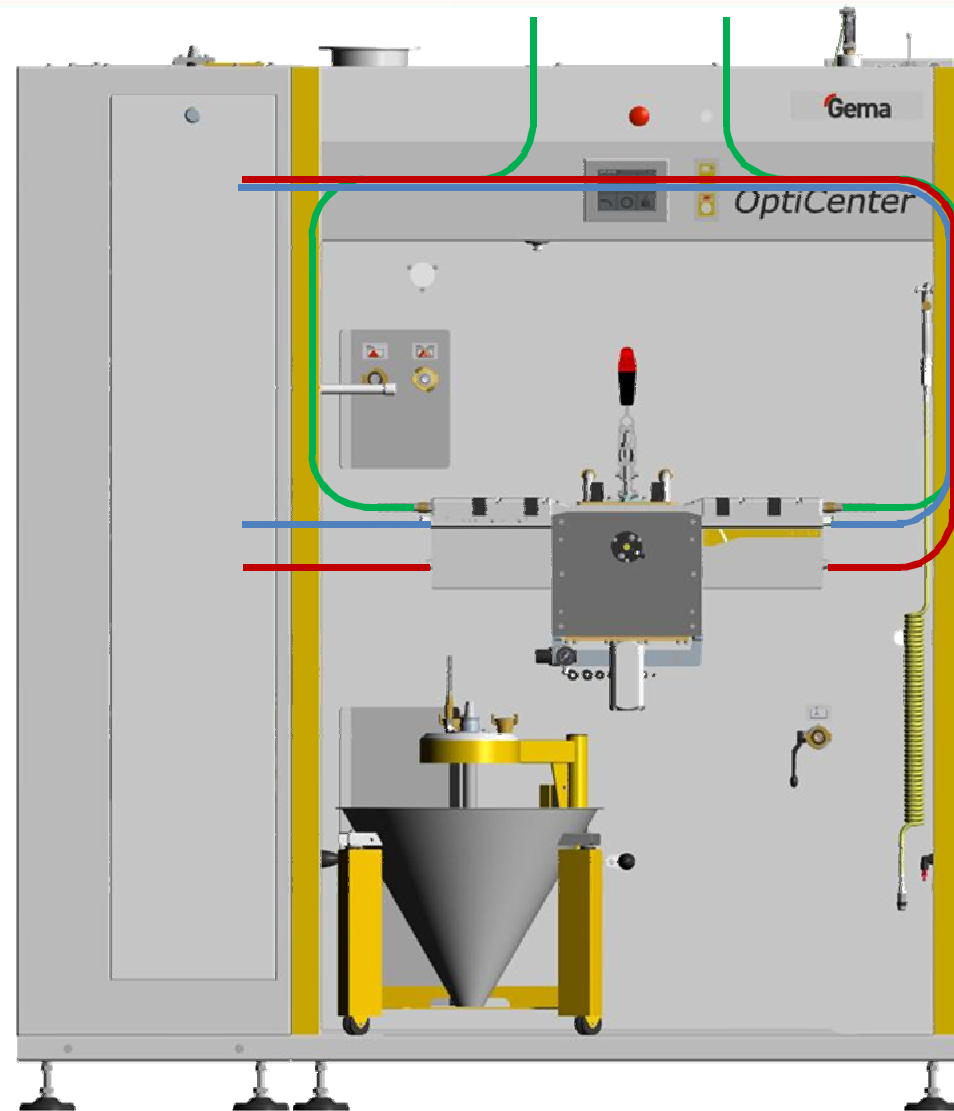
OptiSpray AP01
12 x right (max)

Animation
OC03

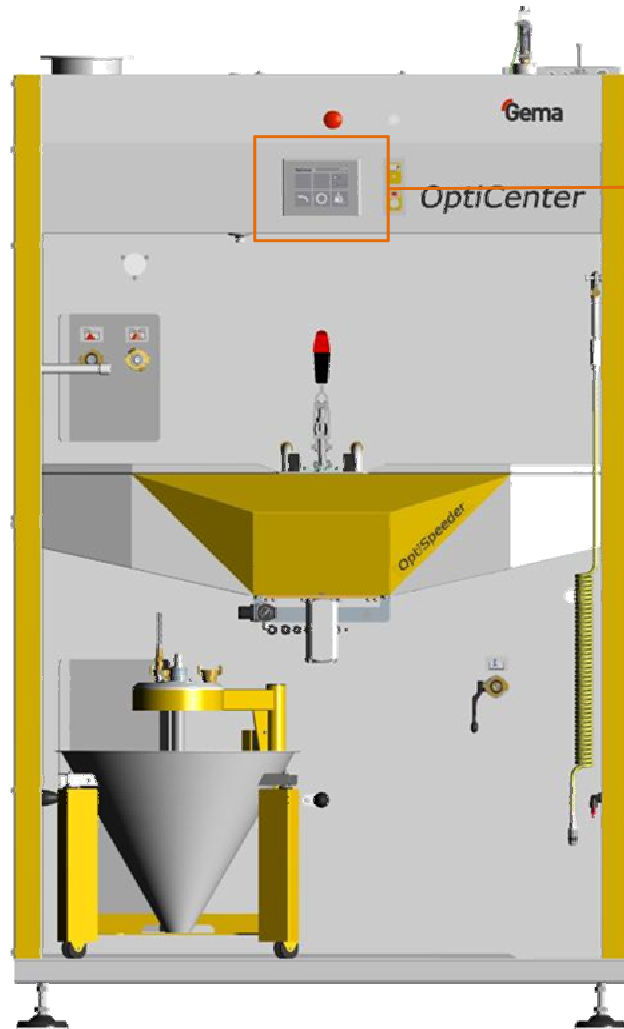
Wiring OptiSpray AP01

Wiring of OptiSpray AP01

- **Powder hose** (green)
- **Pneumatic hoses** (blue)
- **Electro cable** (red)



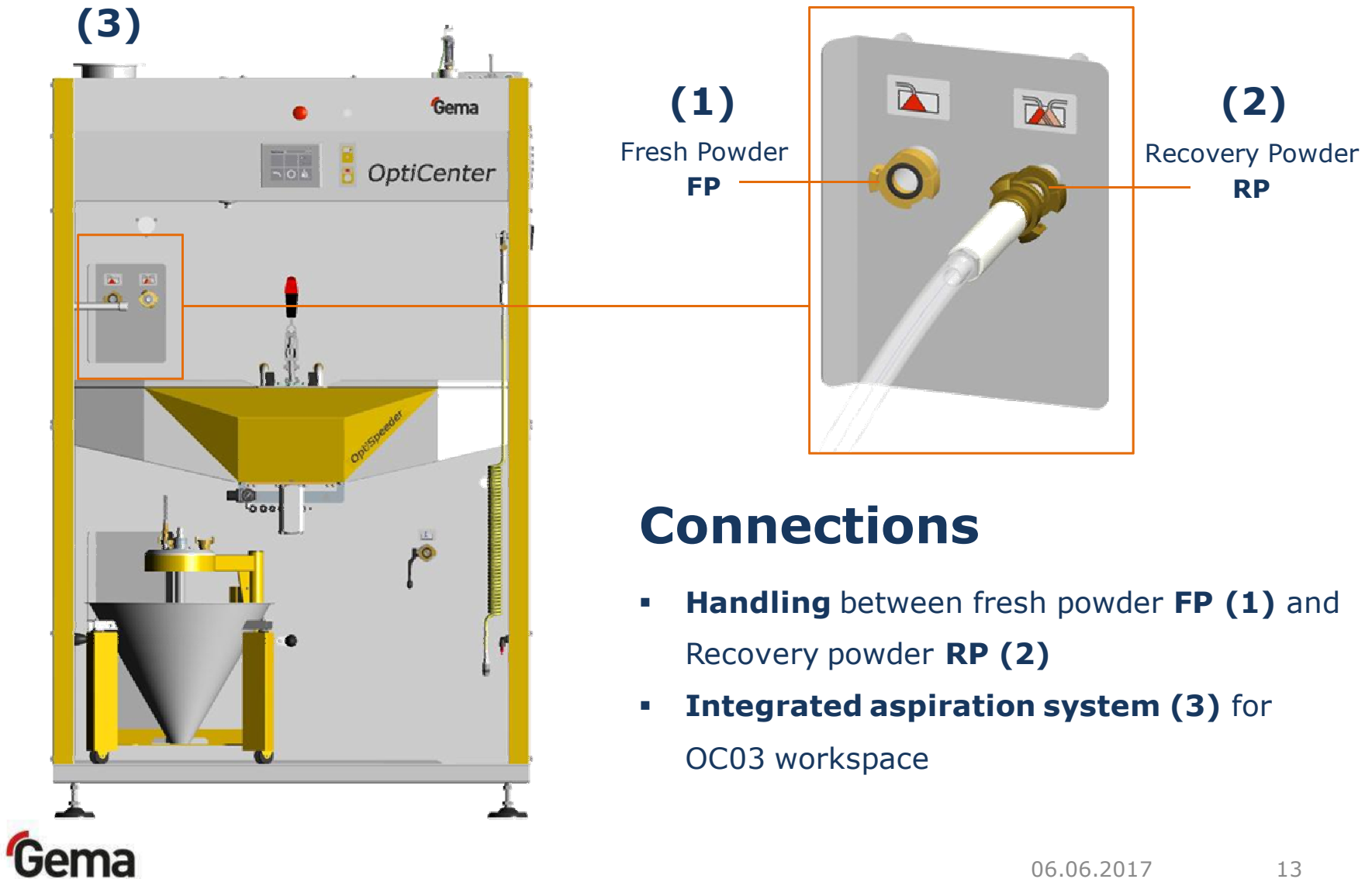
Ergonomic Concept OC03



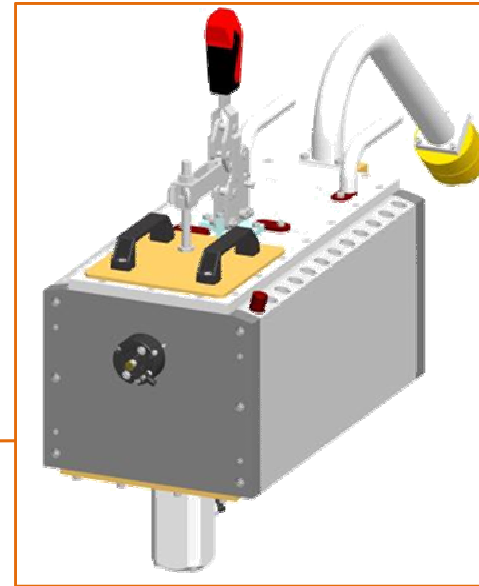
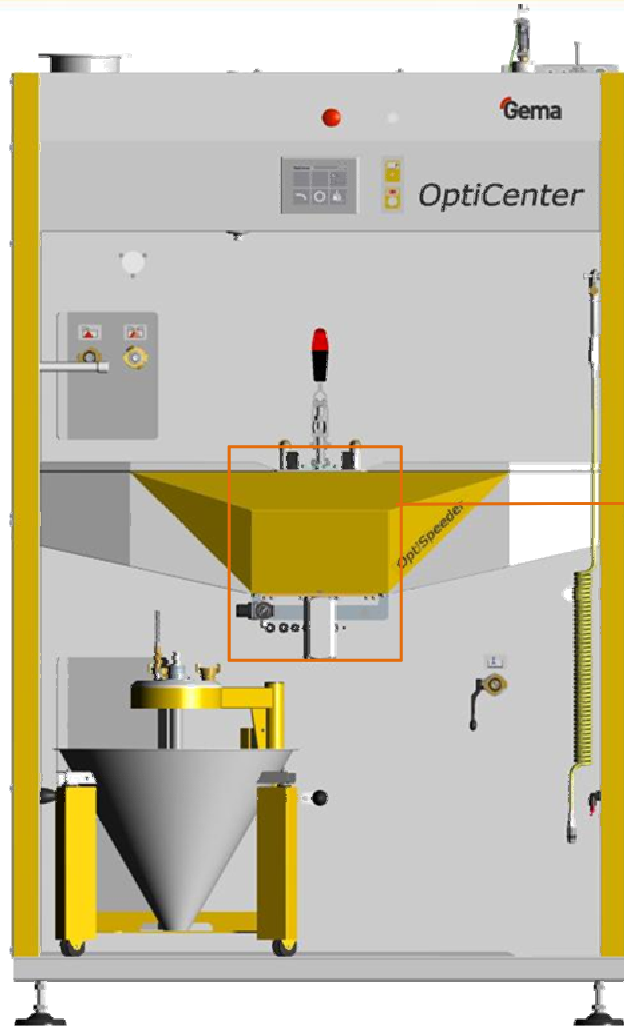
Touch Panel 5,7

- **Ergonomic design,**
integrated into the operating area
- **Easy** and **intuitive** operation concept
- **Reliable data handling**
Back-up with compact flash card
Remote access by Gema support
- **OptiCenter standard software**

Ergonomic Concept OC03



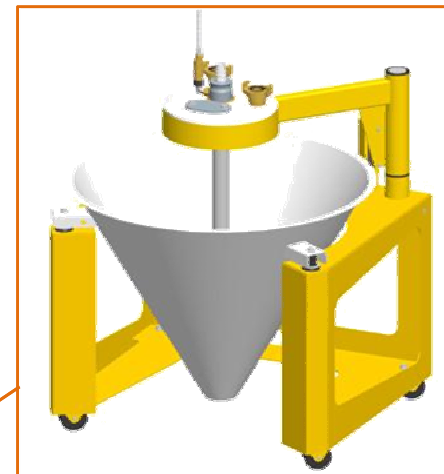
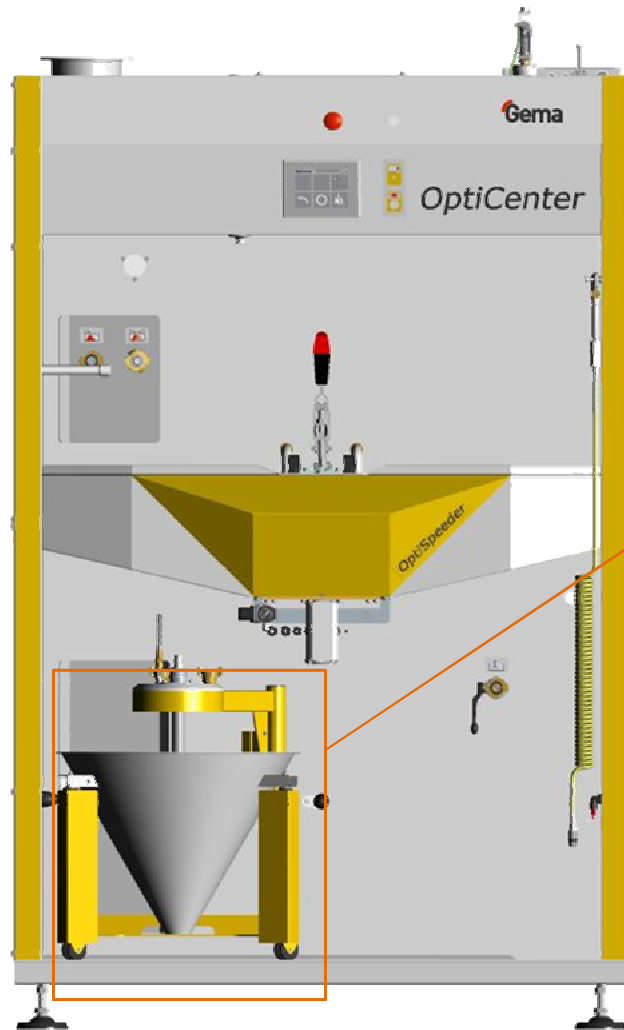
Ergonomic Concept OC03



OptiSpeeder / OptiSpray AP01

- **5kg** powder hopper **capacity**
- Powder **level control**
- **Fresh** and **recovery powder** pumps connections

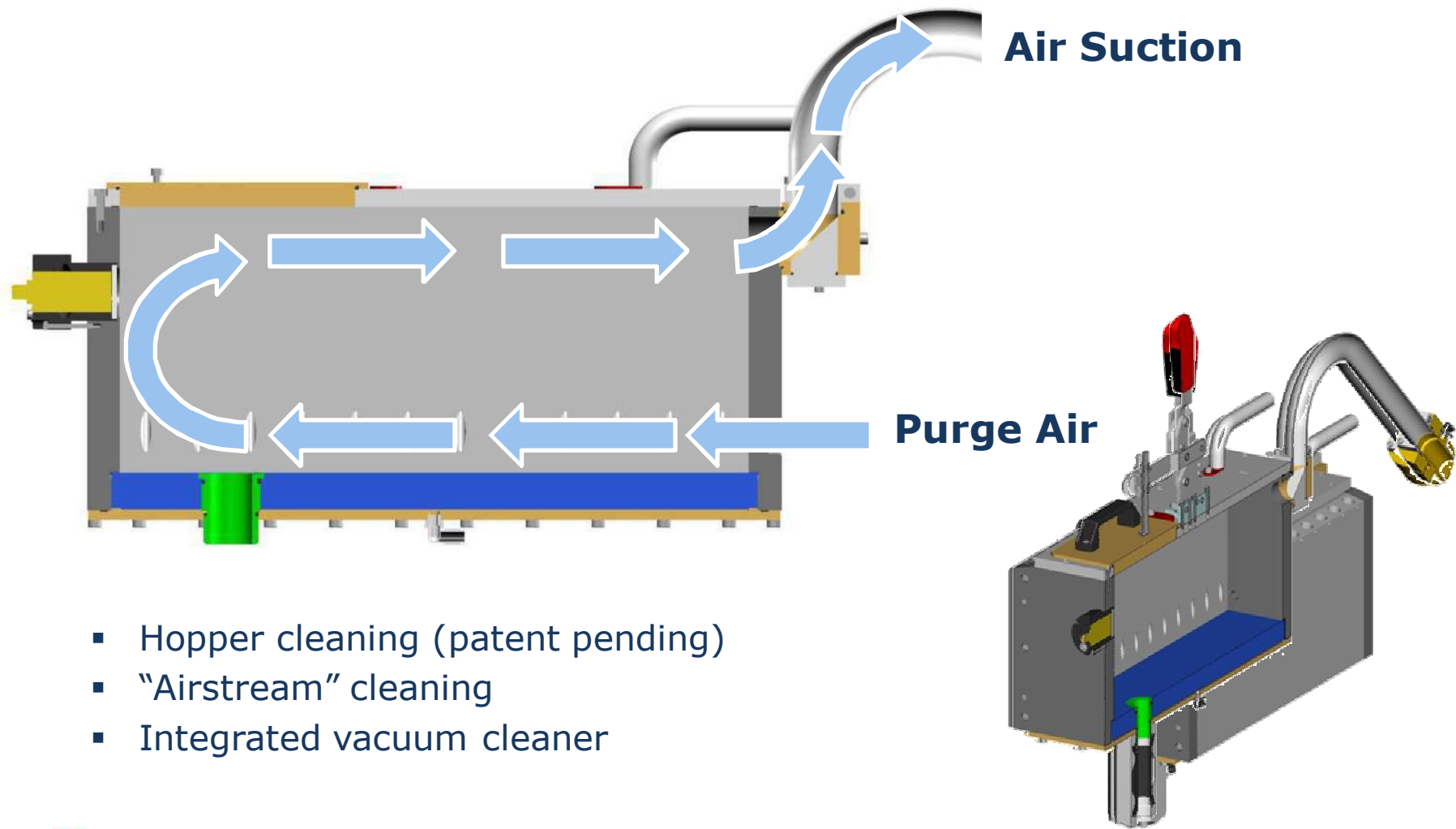
Ergonomic Concept OC03



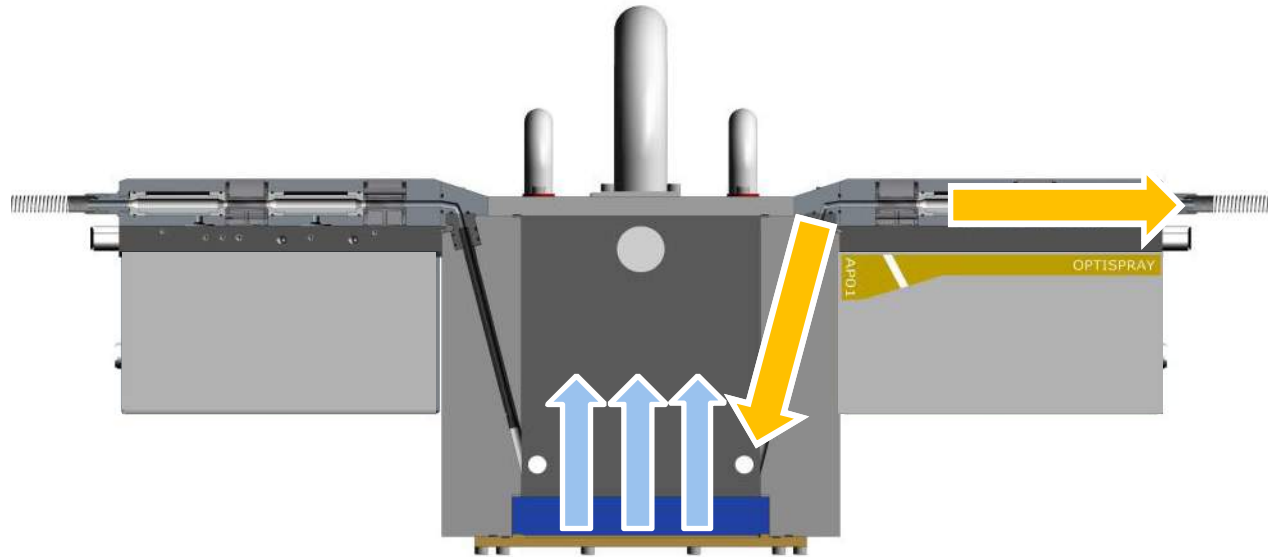
Powder Cone

- Fresh powder **bag** cone (**up to 25 kg**)
- **Movable** for powder hopper **emptying**
- Fluidizing **powder suction tube**
- Fresh powder (**FP**) pump **connection**
- Recovery powder (**RP**) pump **connection**

OptiSpeeder Cleaning

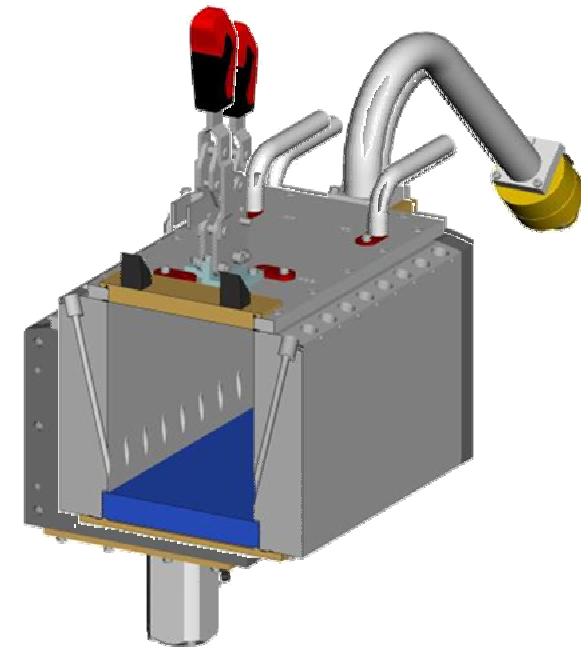


OptiSpeeder Cleaning



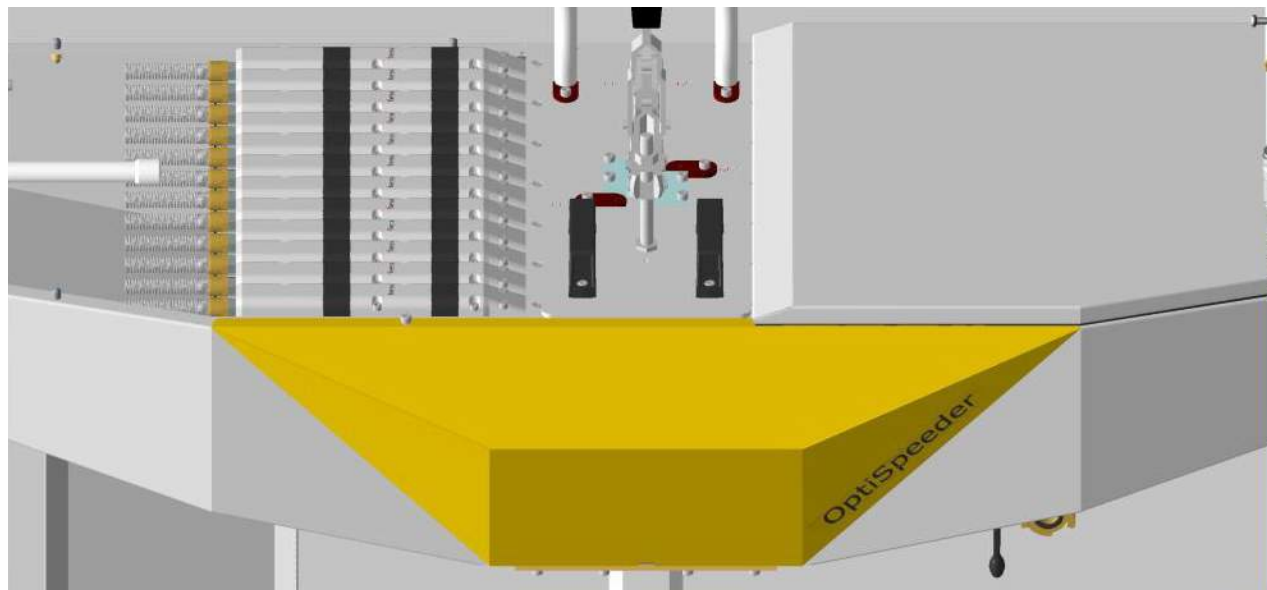
Powder hopper cleaning

- Fluid plate cleaning
- OptiSpray AP01 plus suction tube cleaning



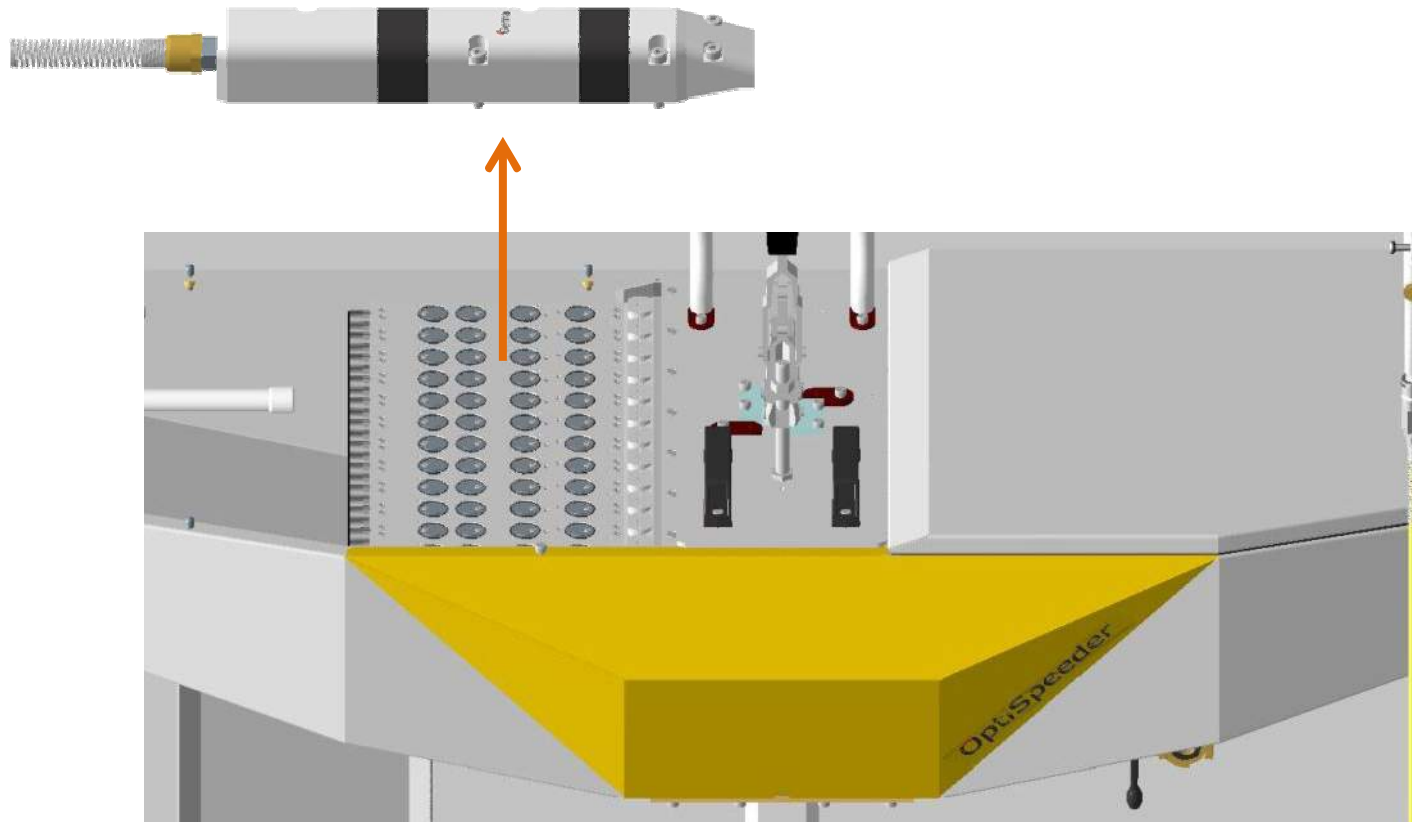
Maintenance OptiSpray AP01

1. Remove covers



Maintenance OptiSpray AP01

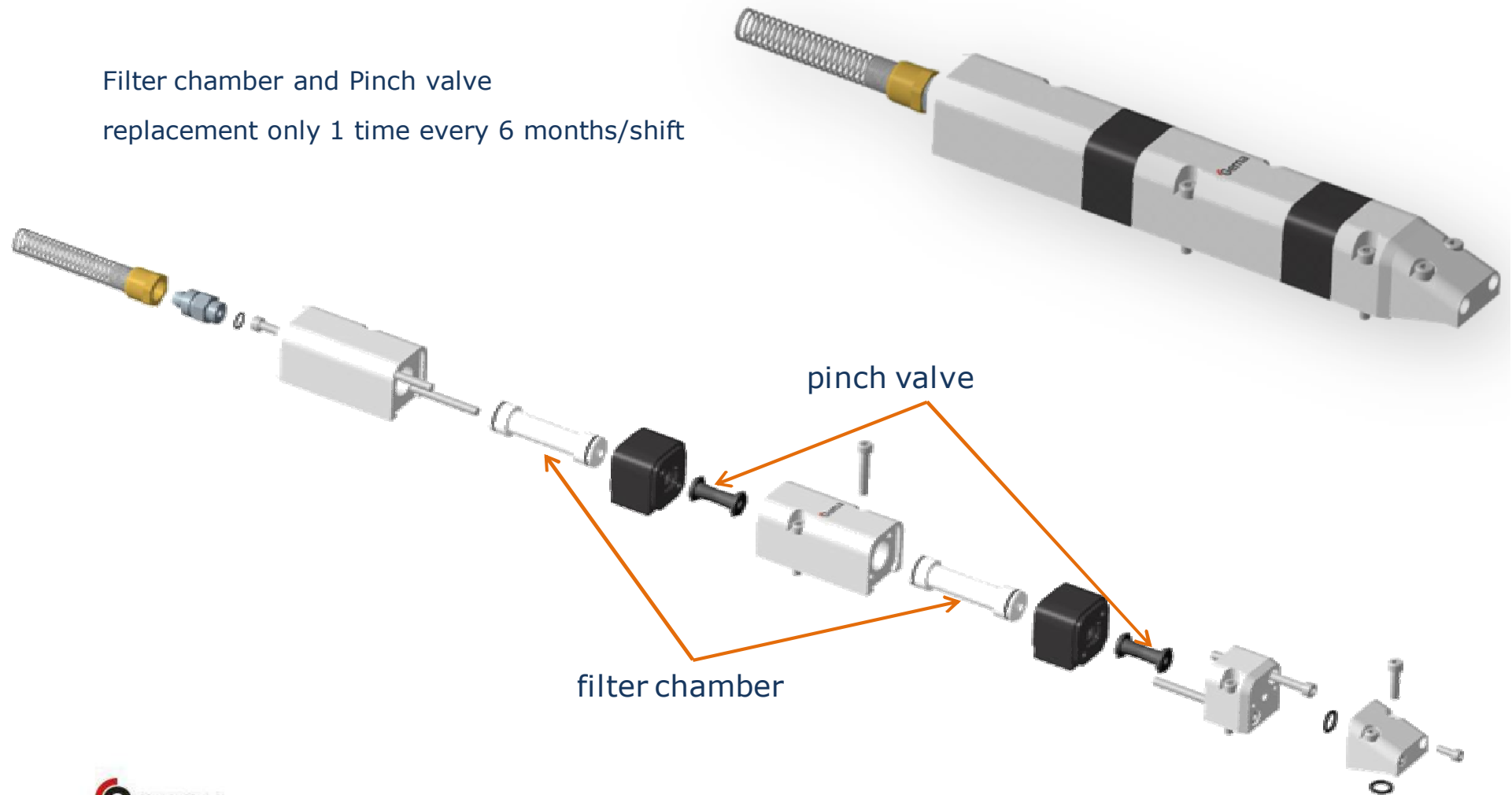
2. Remove pump head



Maintenance OptiSpray AP01

3. Easy replacement of the filter chamber and pinch valves

Filter chamber and Pinch valve
replacement only 1 time every 6 months/shift



OptiCenter OC03 / Summary



Gema

Customer Benefits

- Excellent coating quality
 - Short suction tubes
 - Continuous mix of fresh and recovery powder
 - Integrated quality sieve solution
- Quick color change
 - Sealed powder circuit
 - Automated cleaning procedure
- Compact design
- Ergonomic and intuitive interface
- Easy maintenance

Summary Comparison

CONFIDENTIAL, FOR INTERNAL USE ONLY!

COMPARISON

**Gema
OptiCenter**



CUSTOMERS BENEFITS

**Application
Quality**



**Powder
Savings**



**Color
Change**



**Integration &
Maintenance**



Pumps Integration

Solution Overview

Operating area with air extraction
Space saving design
Ergonomic user interface
Flexibility of use
Integrated high quality sieve
Integrated fresh powder supply



Pumps Integration

Compact solution
Ideal pumps positioning
Short suction tubes
Automatic cleaning pumps



Summary Comparison

CONFIDENTIAL, FOR INTERNAL USE ONLY!

COMPARISON

**Gema
OptiCenter**



CUSTOMERS BENEFITS

**Application
Quality**



**Powder
Savings**



**Color
Change**



**Integration &
Maintenance**



Pumps Integration

Powder Hopper

Small hopper concept
Sealed powder circuit
Continuous mix of fresh + recovery powder
Automatic hopper cleaning



Color change process

Quick color change
Easy color change process
Reduced contamination risk



Application quality

Ideal powder fluidization
Protection from contamination
Ideal powder delivery to the guns
Ideal powder sieving



Thank you very
much for your
attention!



 **Gema**

Your global partner for high quality powder coating