

Ransburg

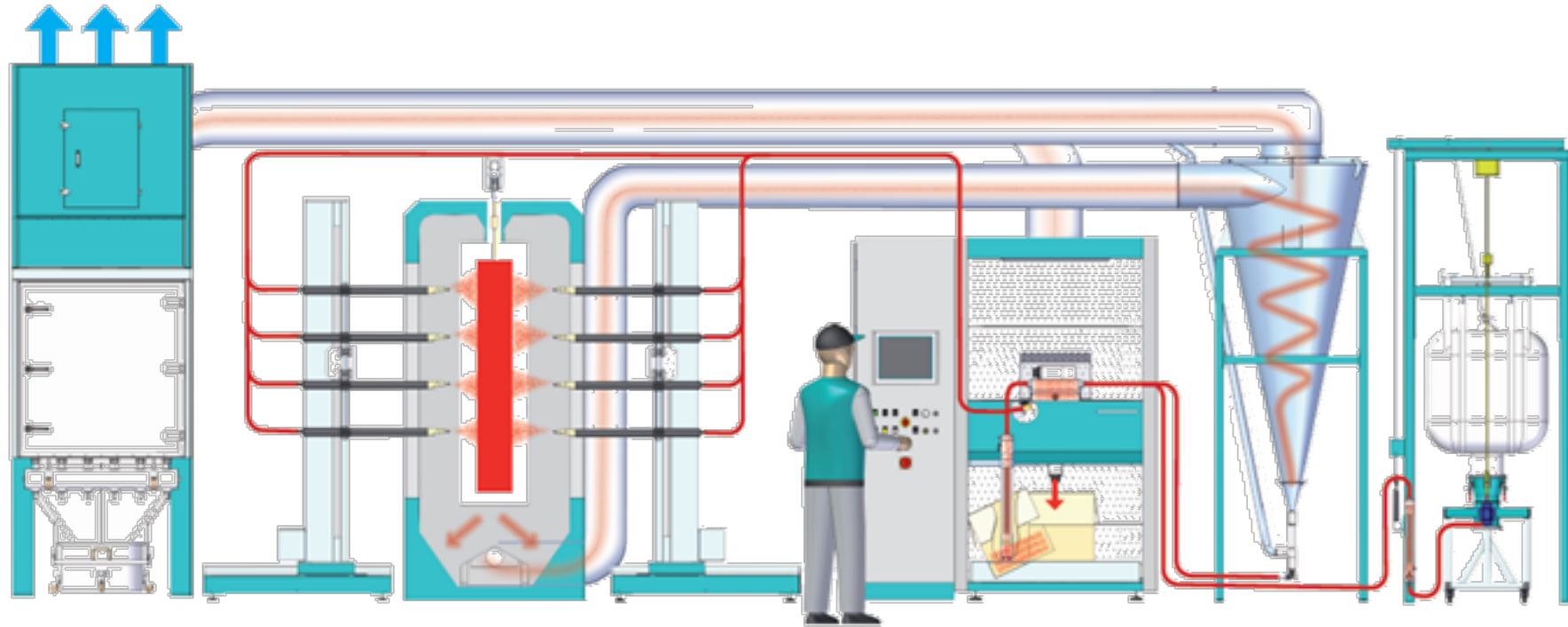
By Binks

Powder Solutions

Overview



Powder- Cycle



Powder Filter

Reciprocator / Sliding Table

Fast Color Change Booth

Controller with Touch Panel

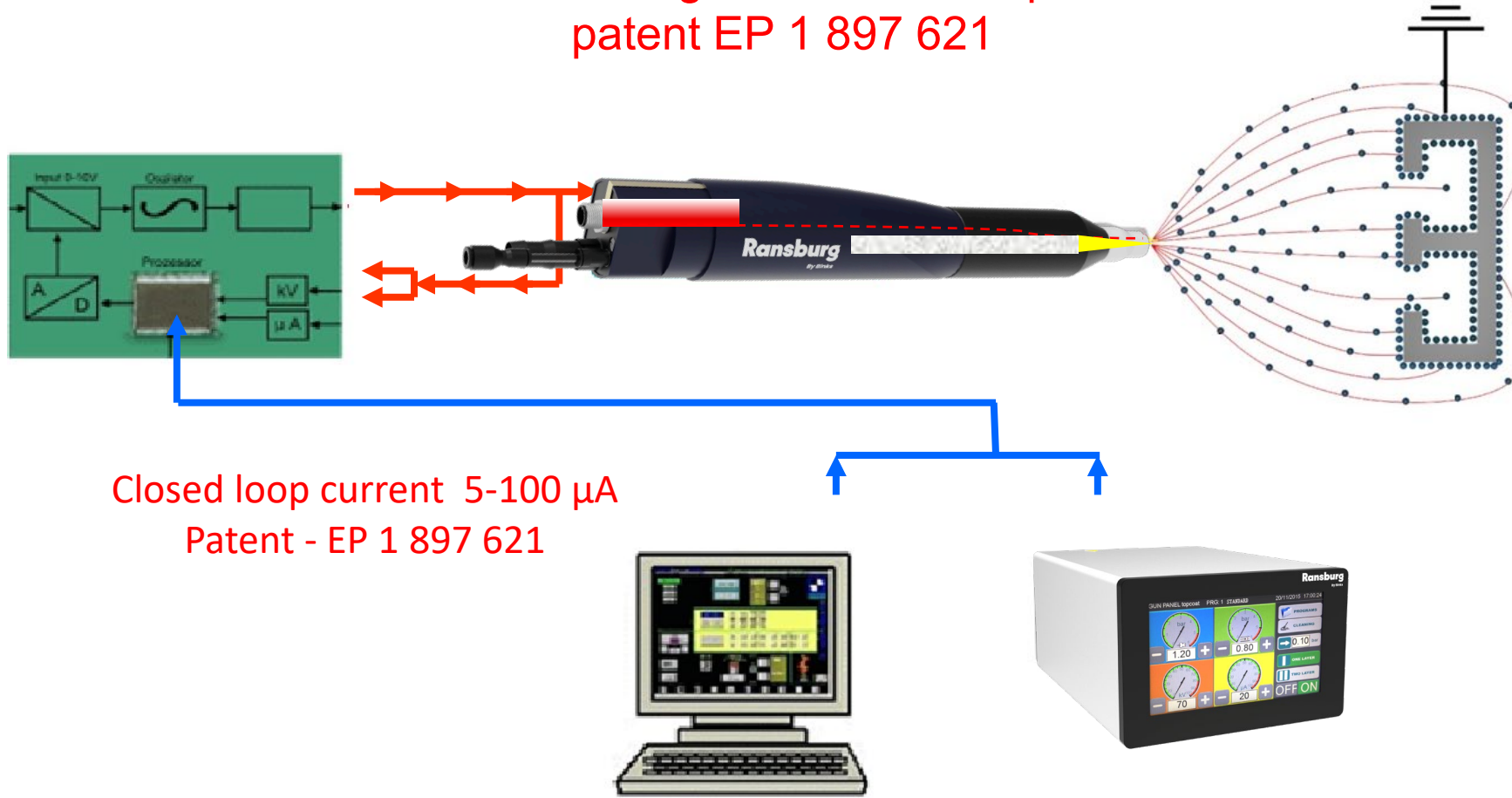
Powder Center

Cyclone Powder Recovery Powder Pump

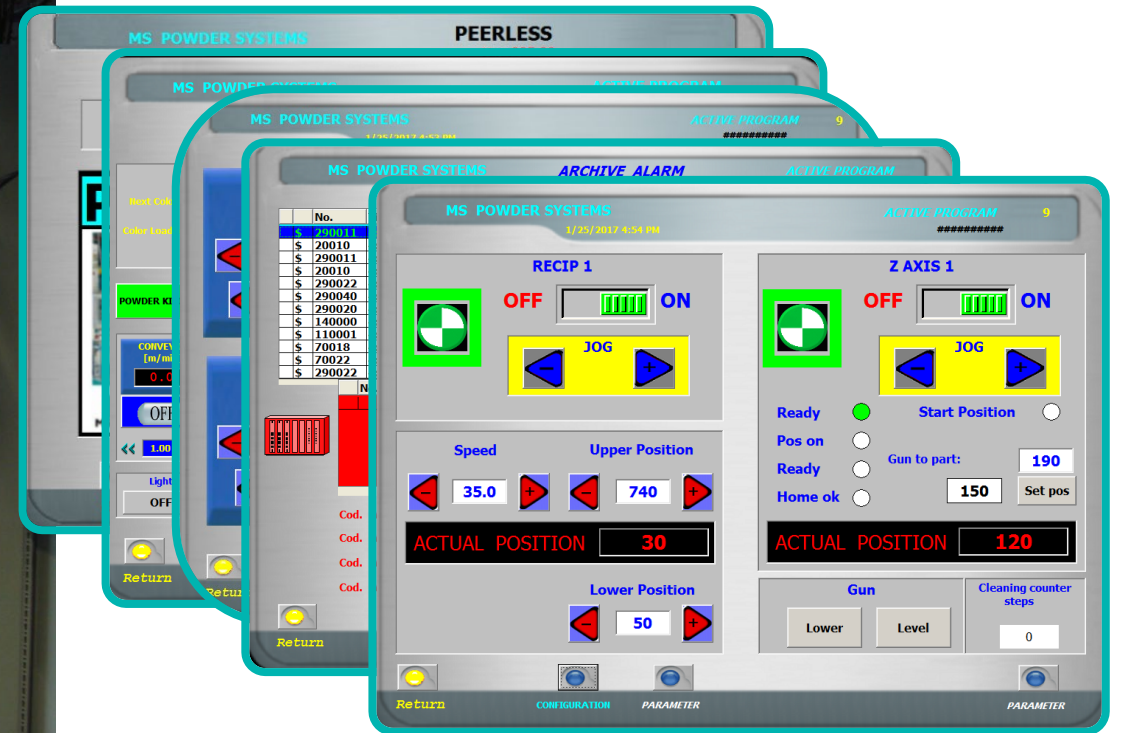
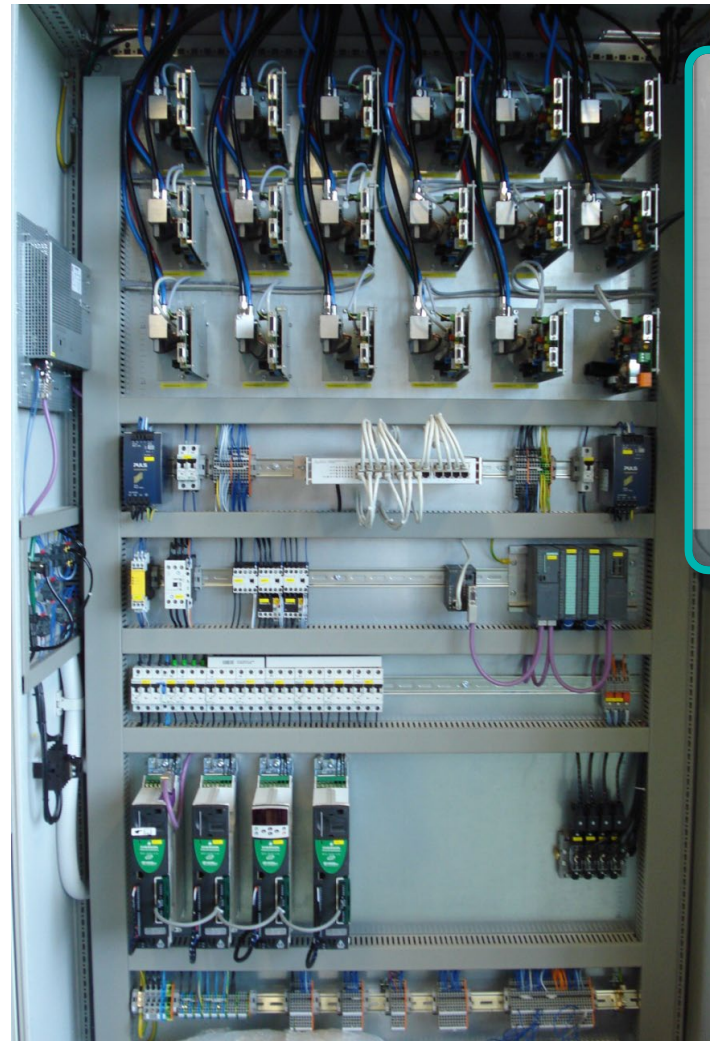
Big Bag

Feedback Loop

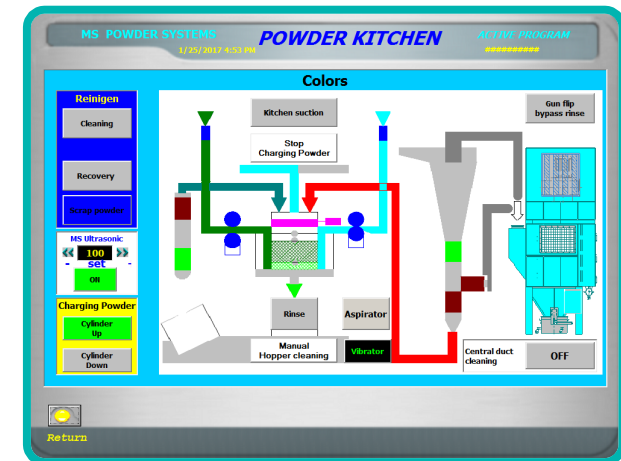
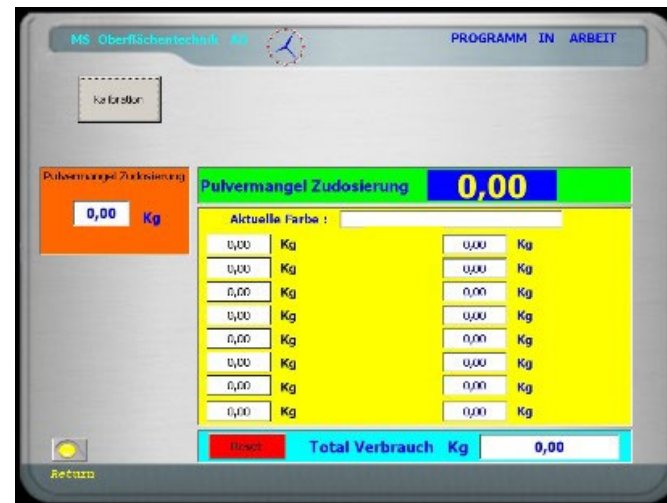
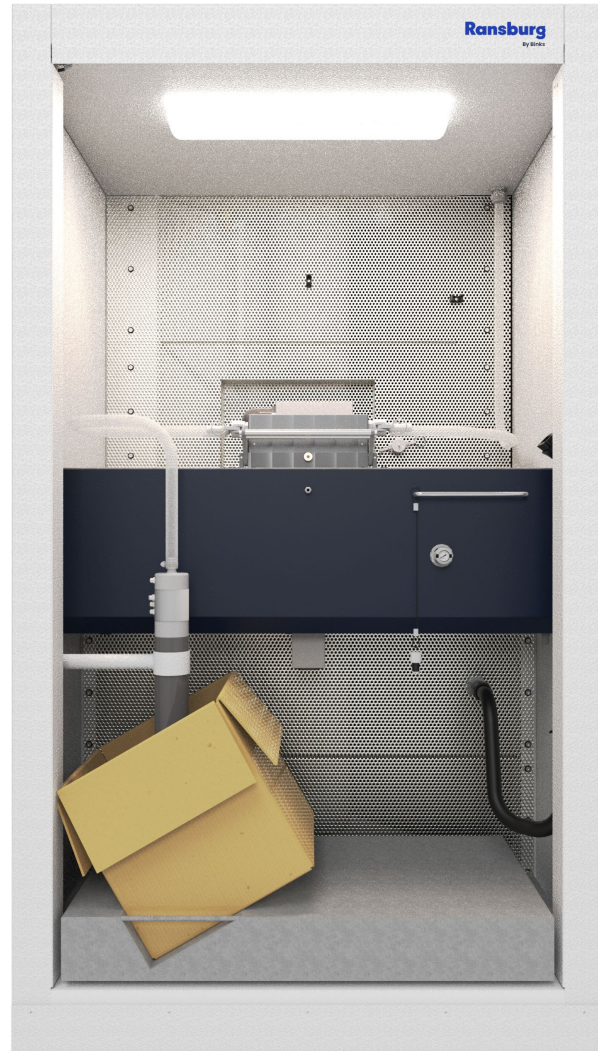
Current regulated to 5-100 μA
patent EP 1 897 621



PLC Powder Line Control



Powder Management



Powder Kitchen Functions

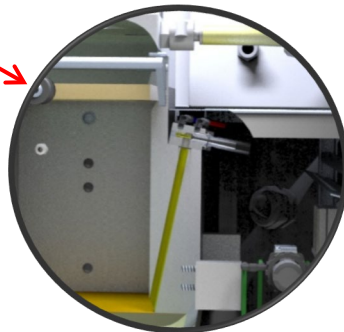


Powder Pump P50
5000 g/min

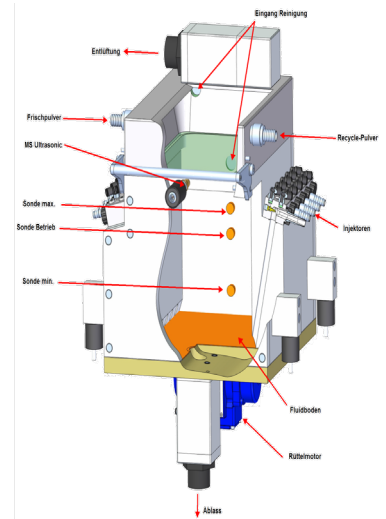
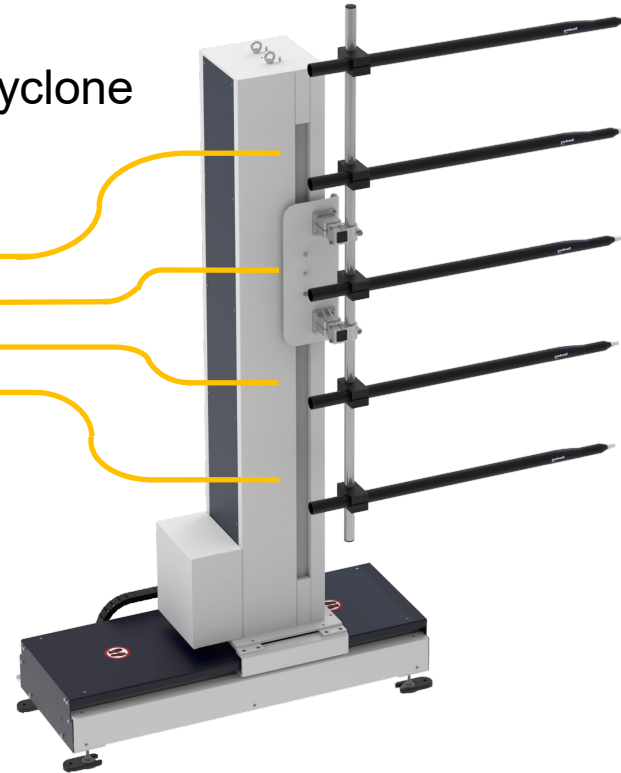
Fluidizing Box

Ultrasonic Sieve

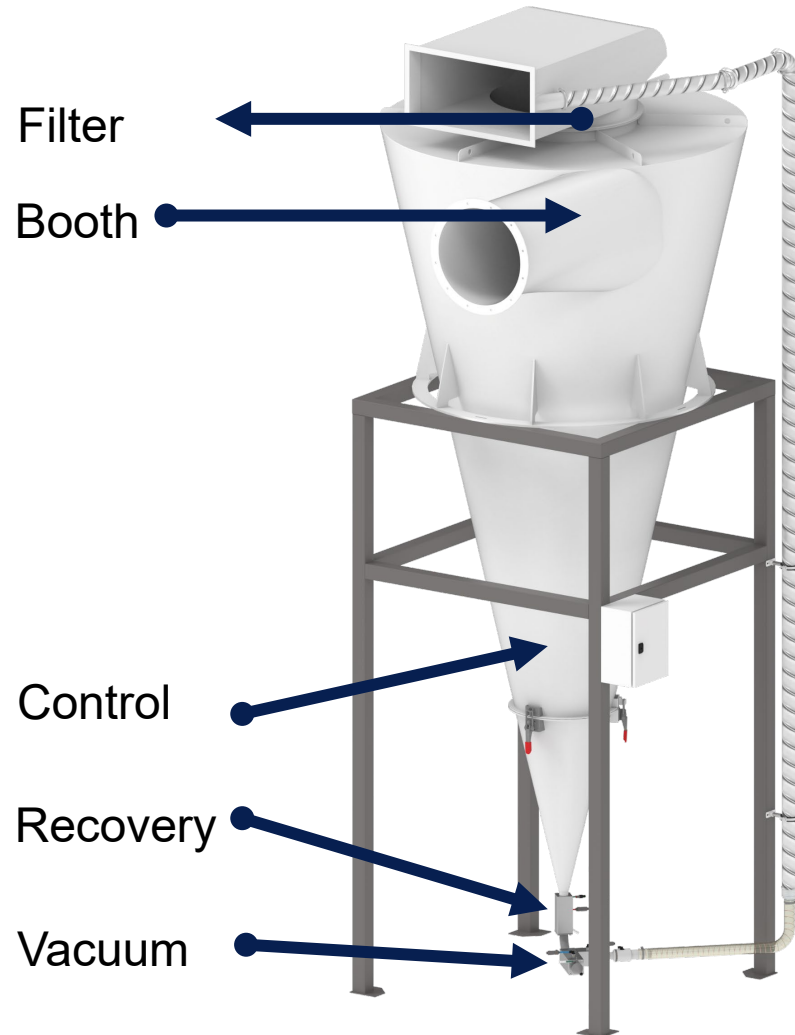
Recovery from the Cyclone



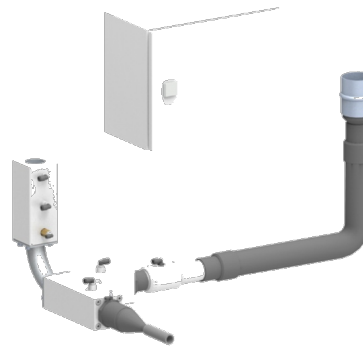
Injector up to 400 g/min



Cyclone Recovery



- Ultimate up to 97% recovery
- Automatic cleaning without sieve cleaning can save up to two minutes for each color change
- No operator handling; automatic switch between waste and recovery
- Just daily inspection **no** cleaning during color change
- Top to bottom down continuous conical “V” shape



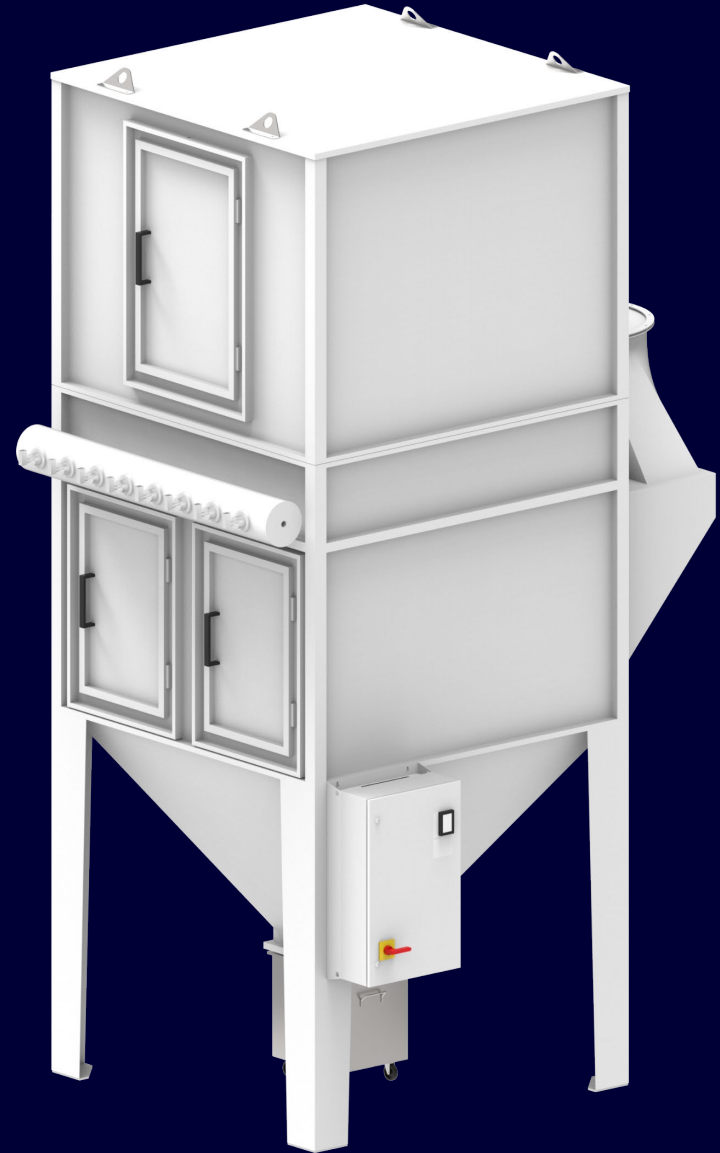
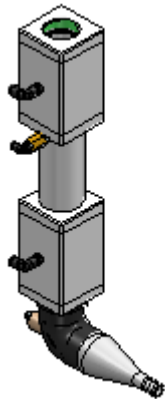
Reciprocators



- vertical or horizontal gun arrangement
- up to 80 kg (176 lb.) load
- X-Y-Z Axis
- Servo drive control

Filter up to 30'000 m3/h / 1900 CFM

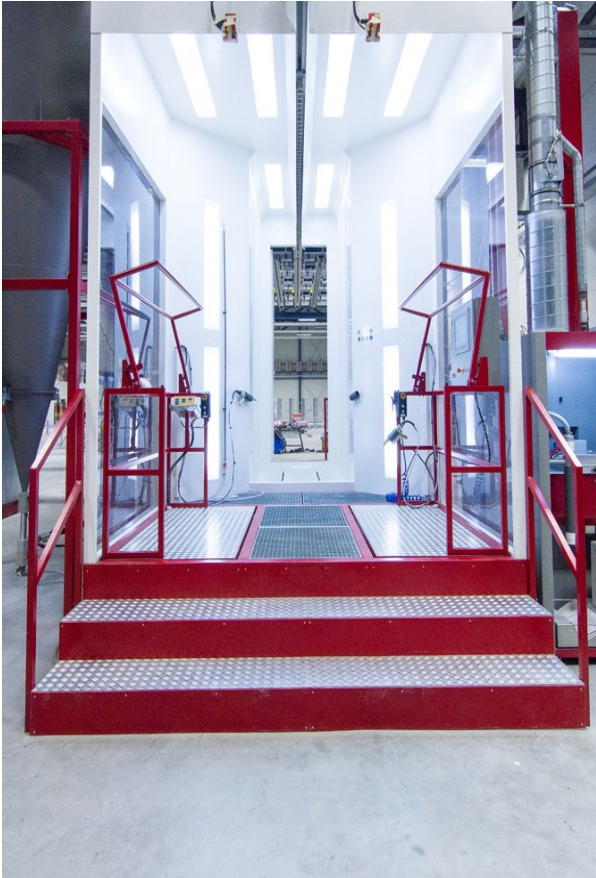
- ✓ Filter and Engine Controller with Frequency Converter (Energy Saving 30%)
- ✓ Super Long age for Filter cartridge (5 Years)
- ✓ Different sizes
- ✓ Pressure 5200Pa (0.75PSI / 3200Pa (0.46PSI)



FCO 1600i - Fast Color Change Open



FCO Integrated Touch-Up Platforms or Lifts



FCO - JIS/JIT Concept



FCO - JIS/JIT Features

- Increased productivity with fast color change in 2.5 – 5 minutes
- JIS color change from one part to the other without interruption of production w/ two systems
- Spray for waste or recovery depending on batch size or powder consumption costs



3D Scanner



FCO Features



- Increased productivity with *fast color change in 6 – 10 minutes*
 - Improved application efficiency, due to MS *double wall PVC sandwich wall* booth construction
 - Increased *over-all powder system efficiency* due to unique self-cleaning MS cyclone design, *up to 97%*
-
- *Minimal use of powder coating material in circulation* at any given time, with optimum amount of material in circulation, *due to sophisticated PLC control sensors* being utilized
 - *Small foot-print of automatic section* improves efficiency and time of automated booth enclosure clean-up

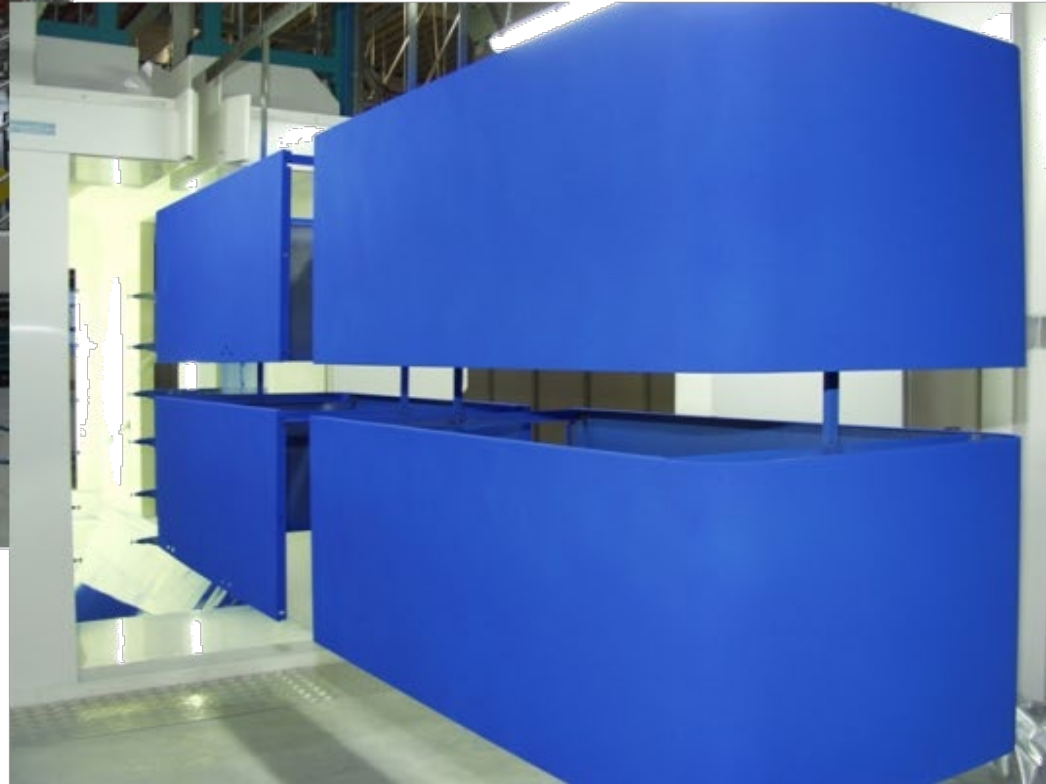
FCS – Fast Color Change Smart



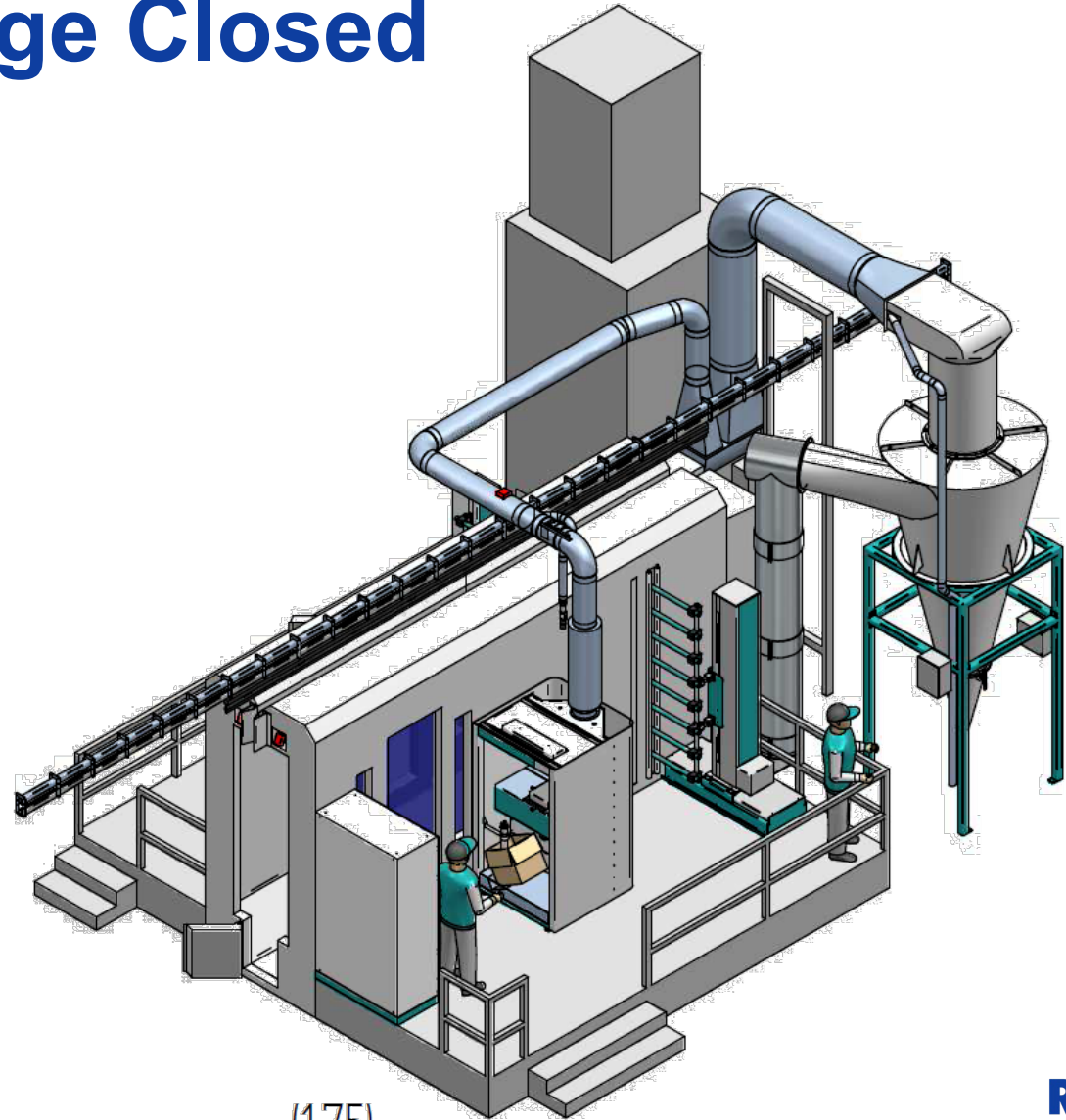
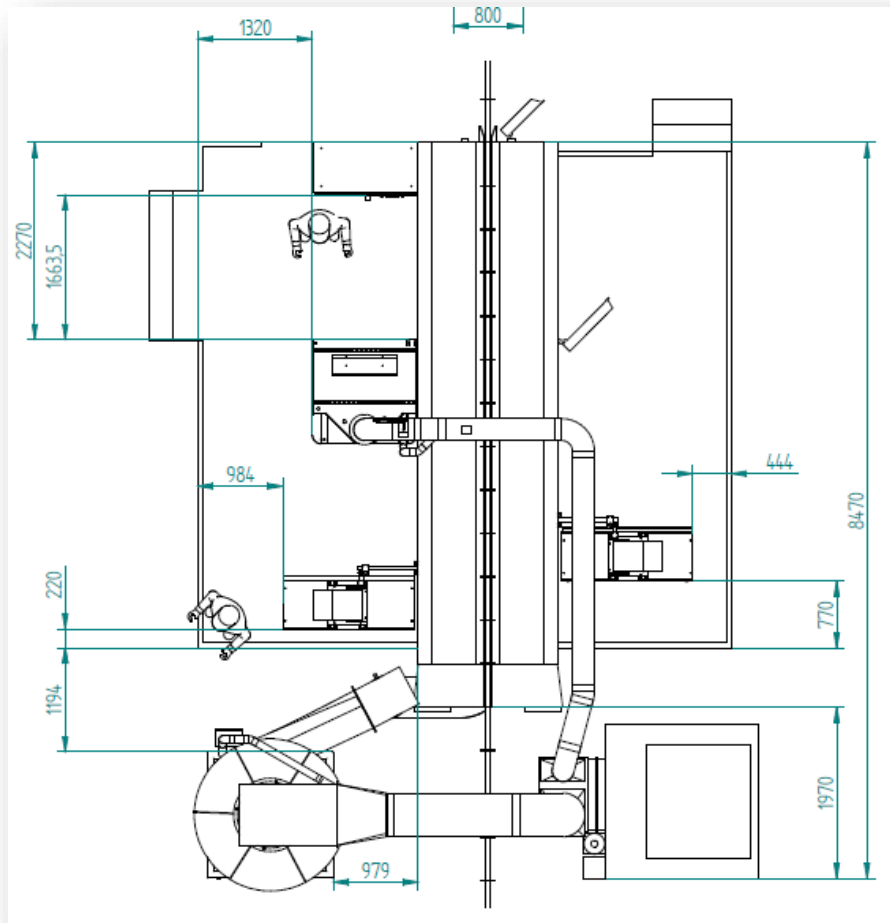
FCS – Fast Color Change Smart



FCC – Fast Color Change Closed



FCC – Fast Color Change Closed

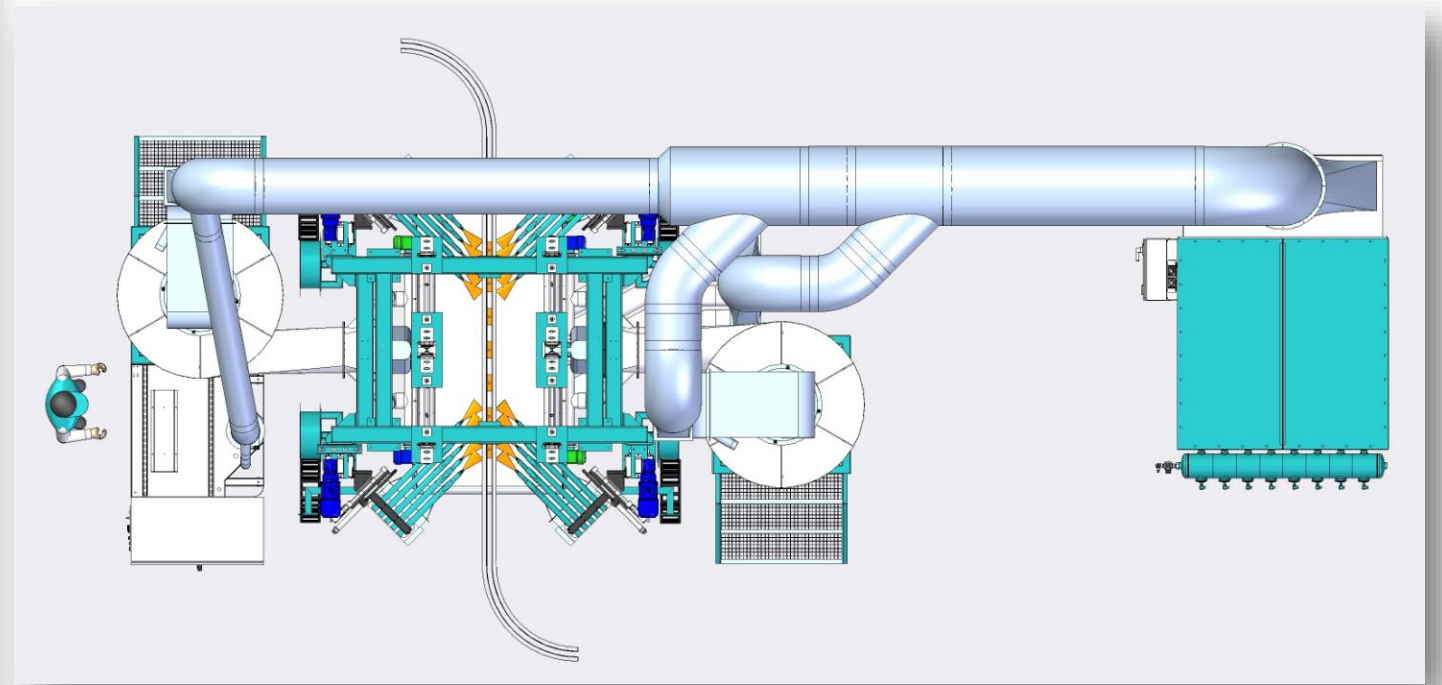
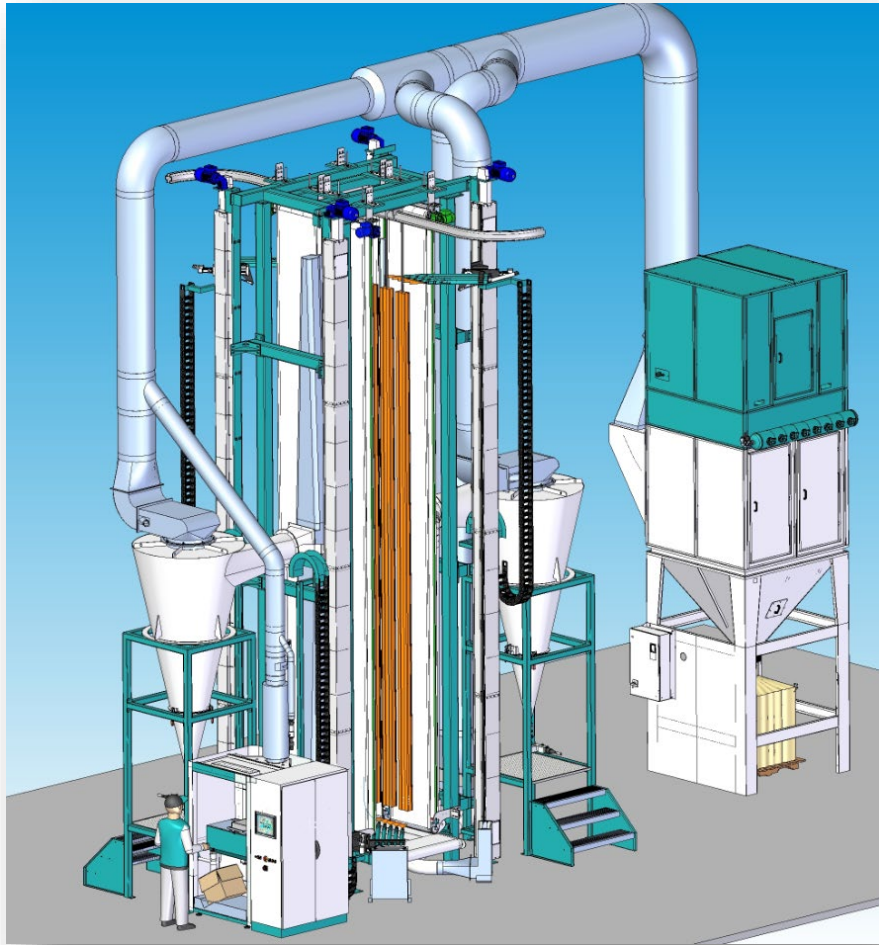


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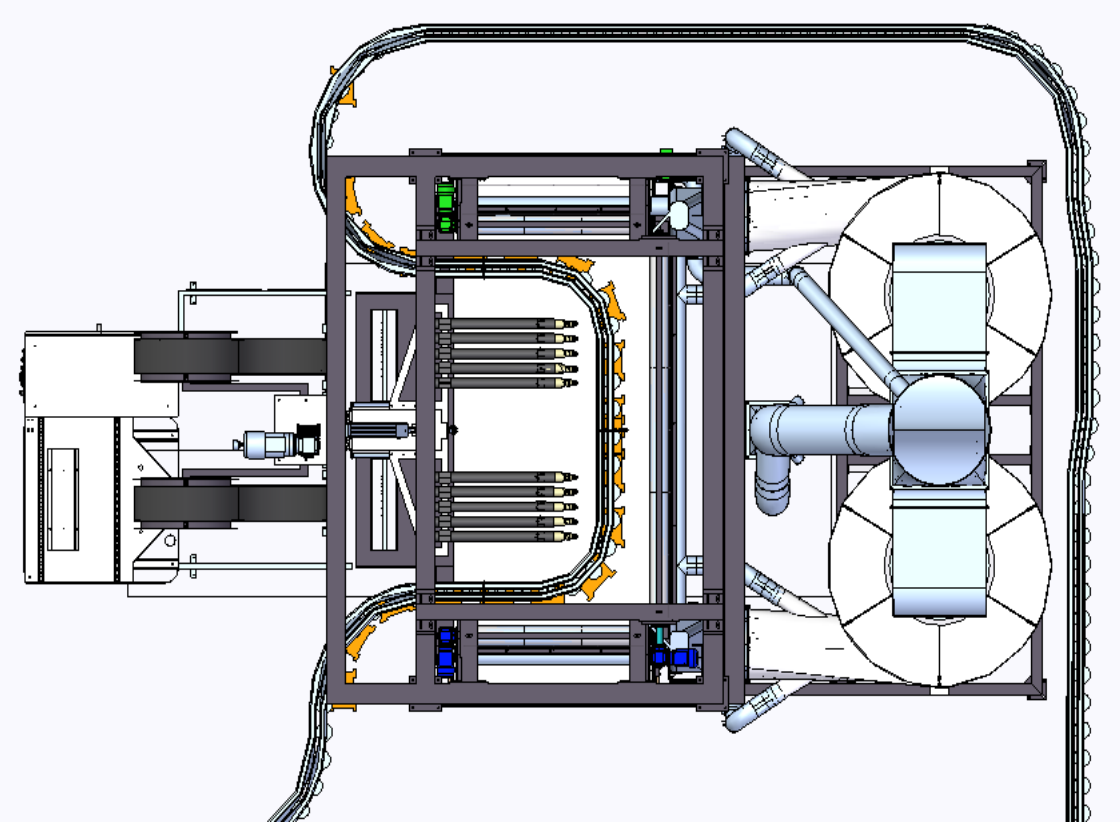
FCB – Fast Color Change Belt



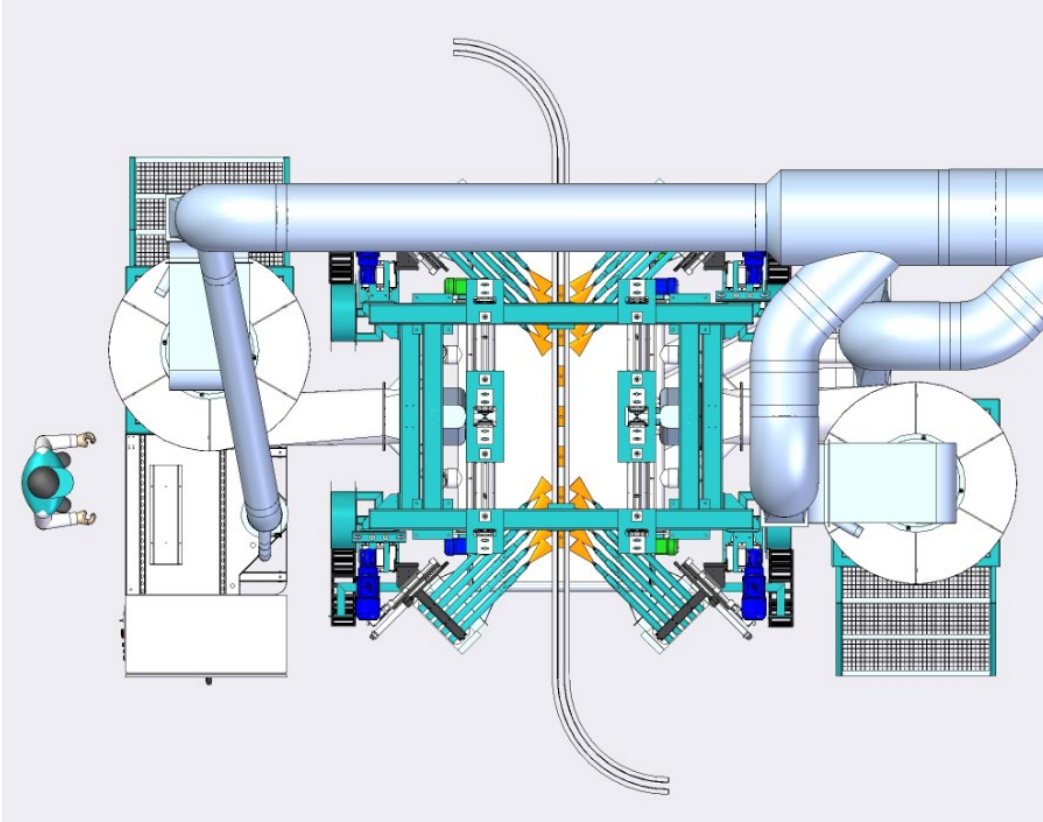
FCV – Fast Color Change Vertical - X Design



FCV – Fast Color Change Vertical



U-Design



X-Design

FCV – X Design

- Increased productivity with fast color change in 2.5 – 5 minutes with one or two booth concept
- No need for parts to rotate to coat both sides
- larger profile widths can be coated
- 5-10 % less powder each square foot in comparison to older U-shape concept



Big Part Solutions



Robot Application for A-C-E Cabins

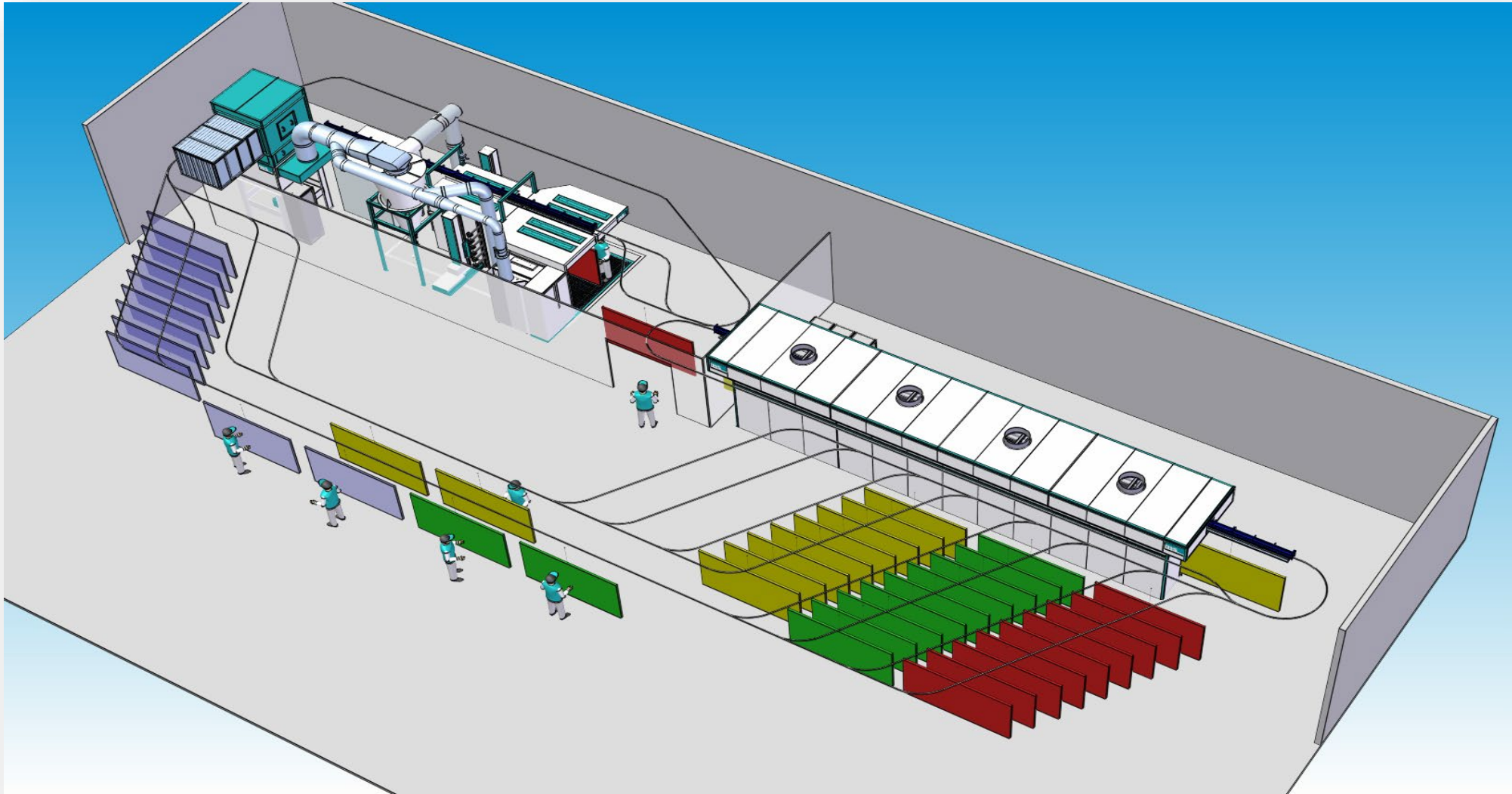


Powder Supply for Automatic Equipment



Stobag

MDF (wood) Powder Coating Lines



Thank you



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