



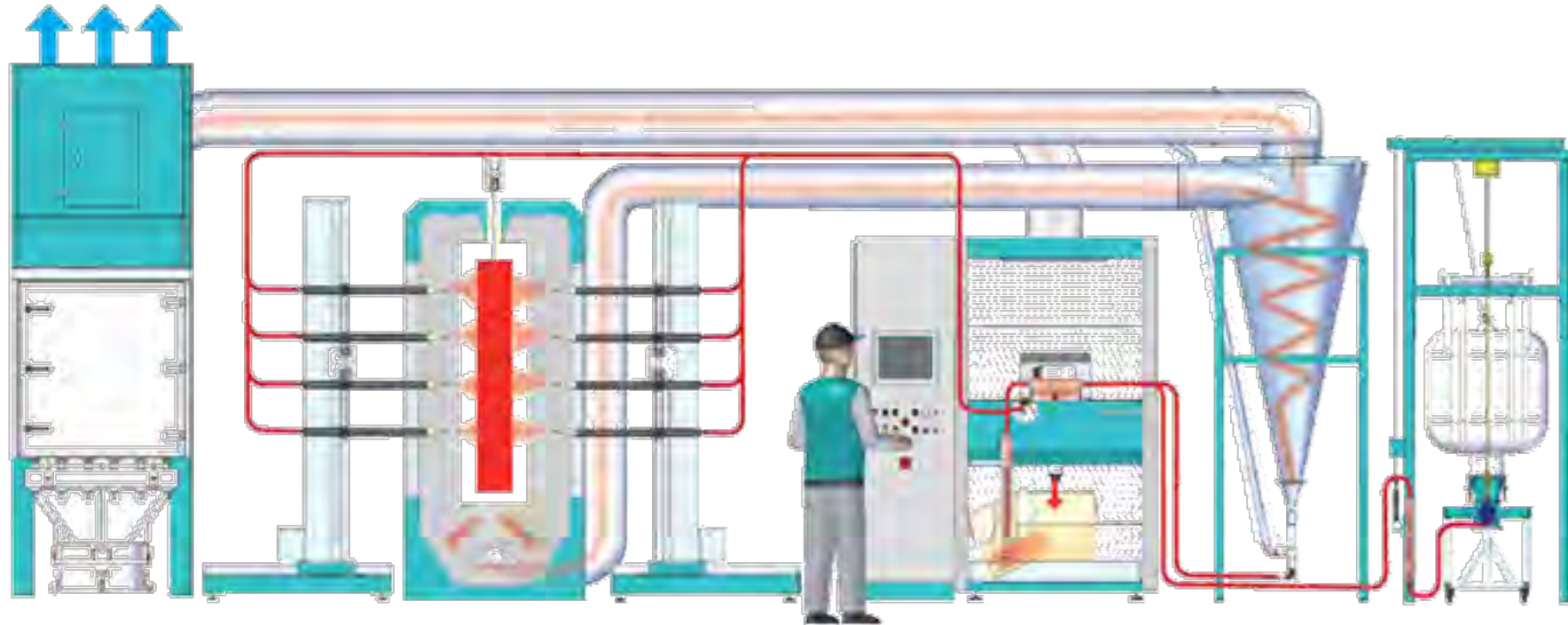
**FINISHING
EDUCATION**
UNIVERSITY

MS Powder Booth Solutions

Tim Chambers – North American Sales
Marcus Pott – MS Sales Director - Europe
Dan Liedorff - Technical Powder Manager
Michael Marcon – Powder Product Manager



MS Powder- Cycle



MS Powder
Filter

MS
Reciprocator
/
MS Sliding
Table

MS Fast Color
Change Booth

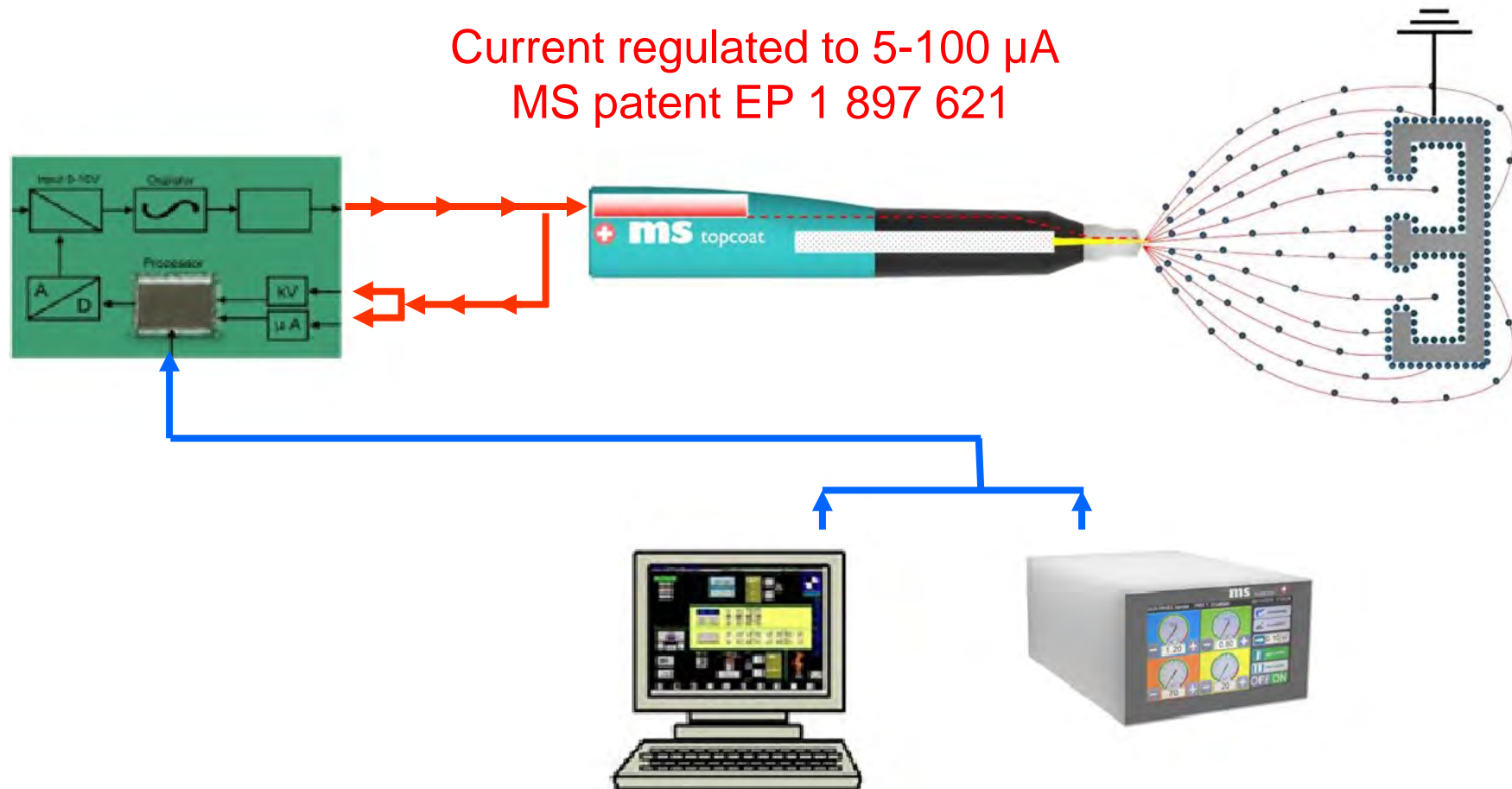
MS Controller with
Touch Panel

MS Powder Center

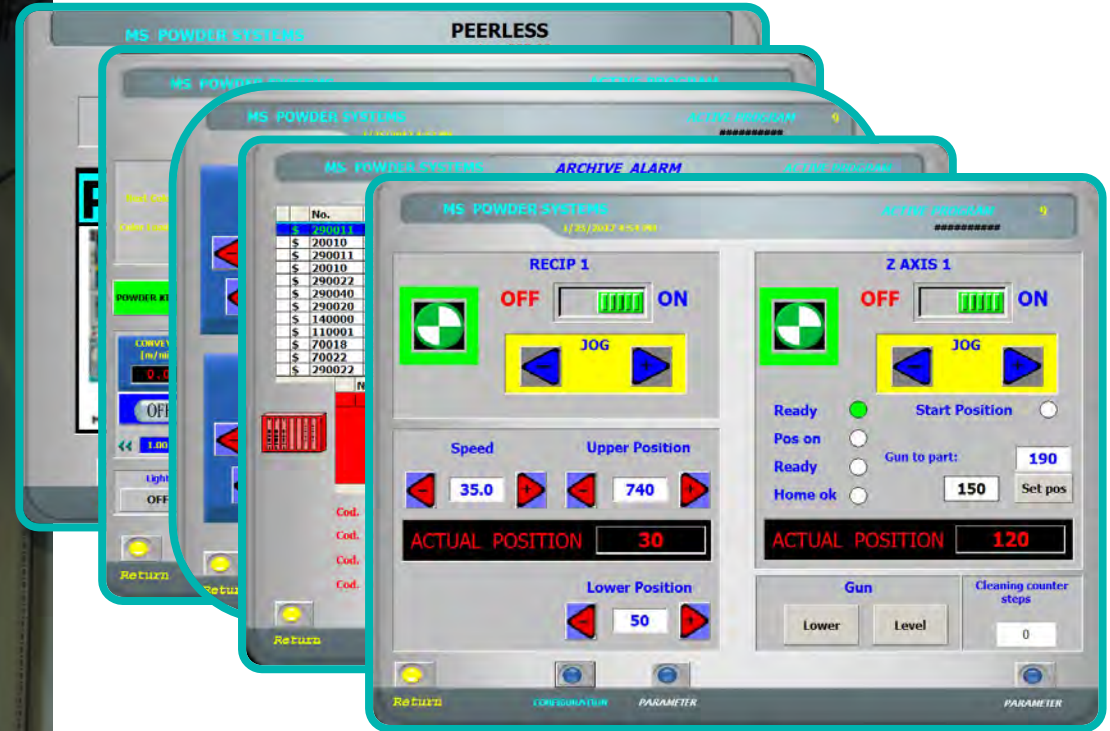
MS Cyclone
MS Powder Recovery
MS Powder Pump

MS Big Bag

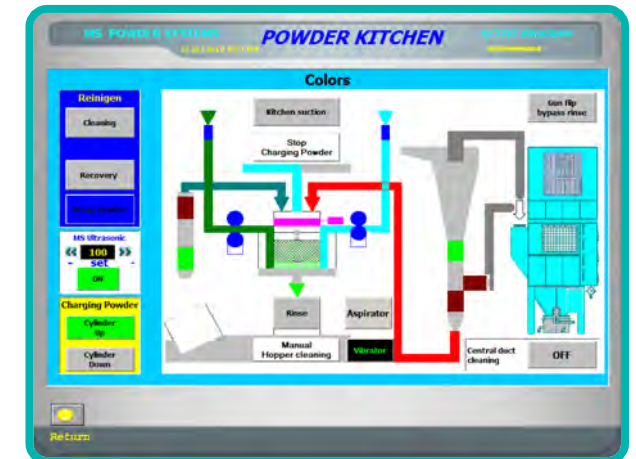
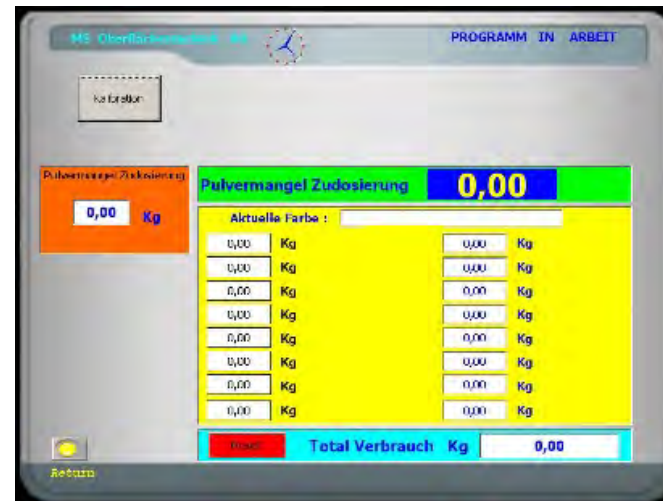
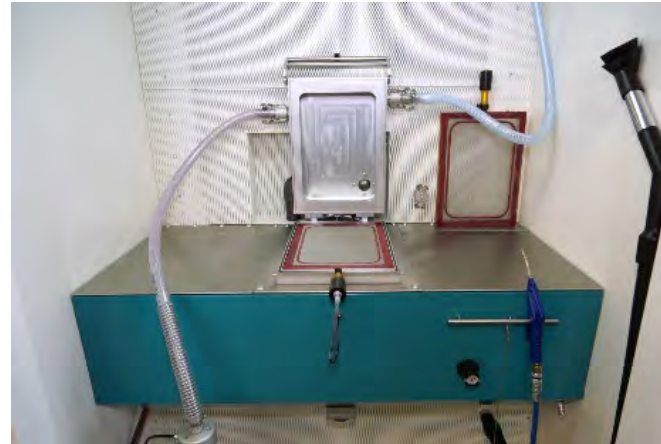
Feedback Loop



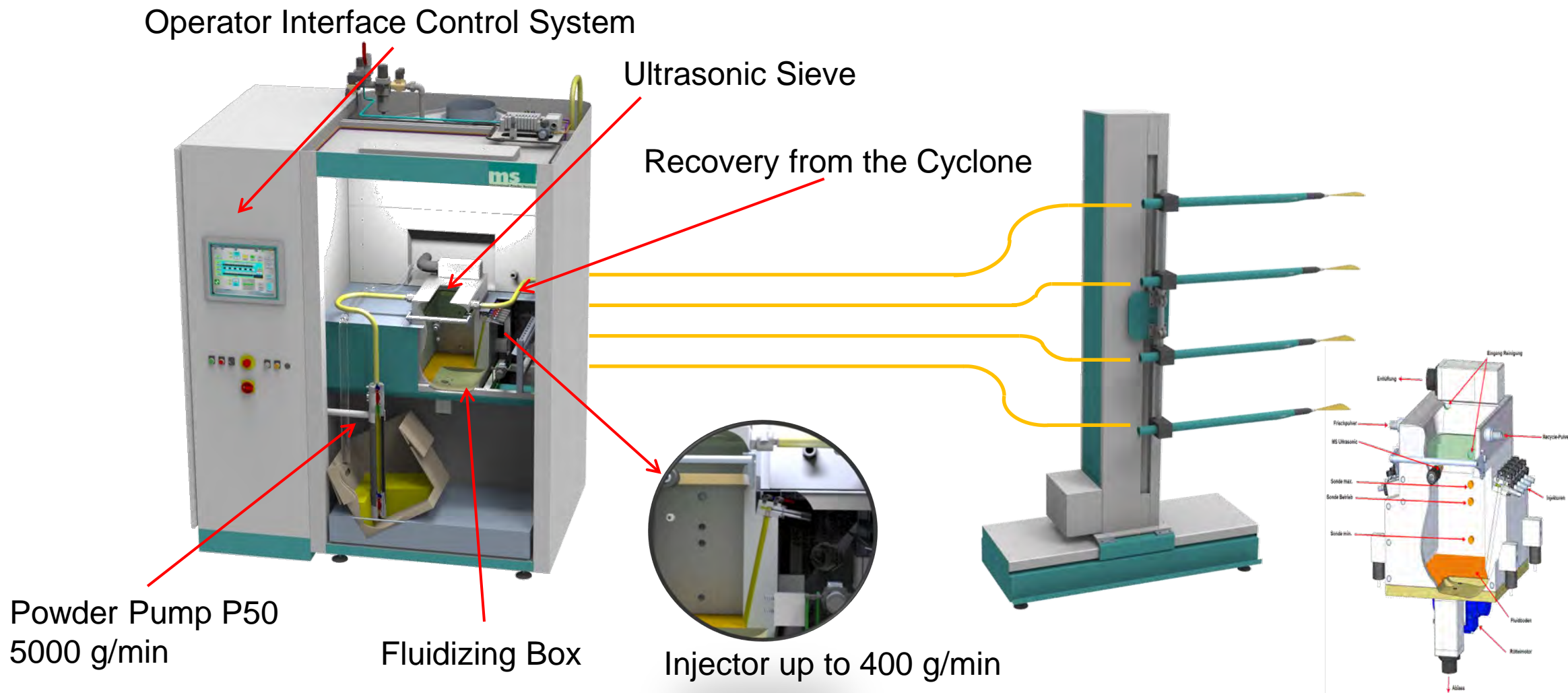
MS PLC Powder Line Control



Powder Management



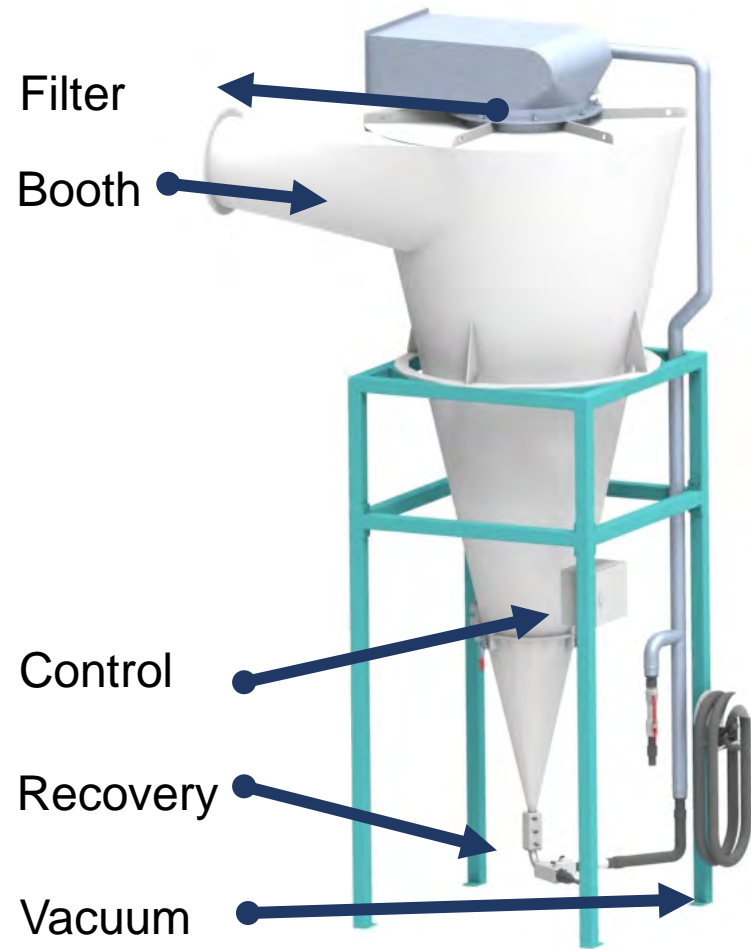
Powder Kitchen Functions



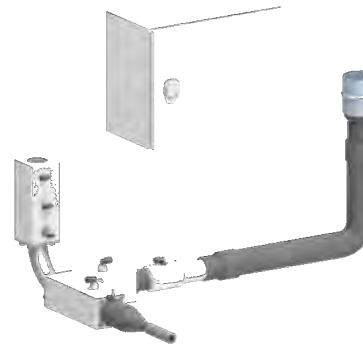
Ultrasonic Sieve



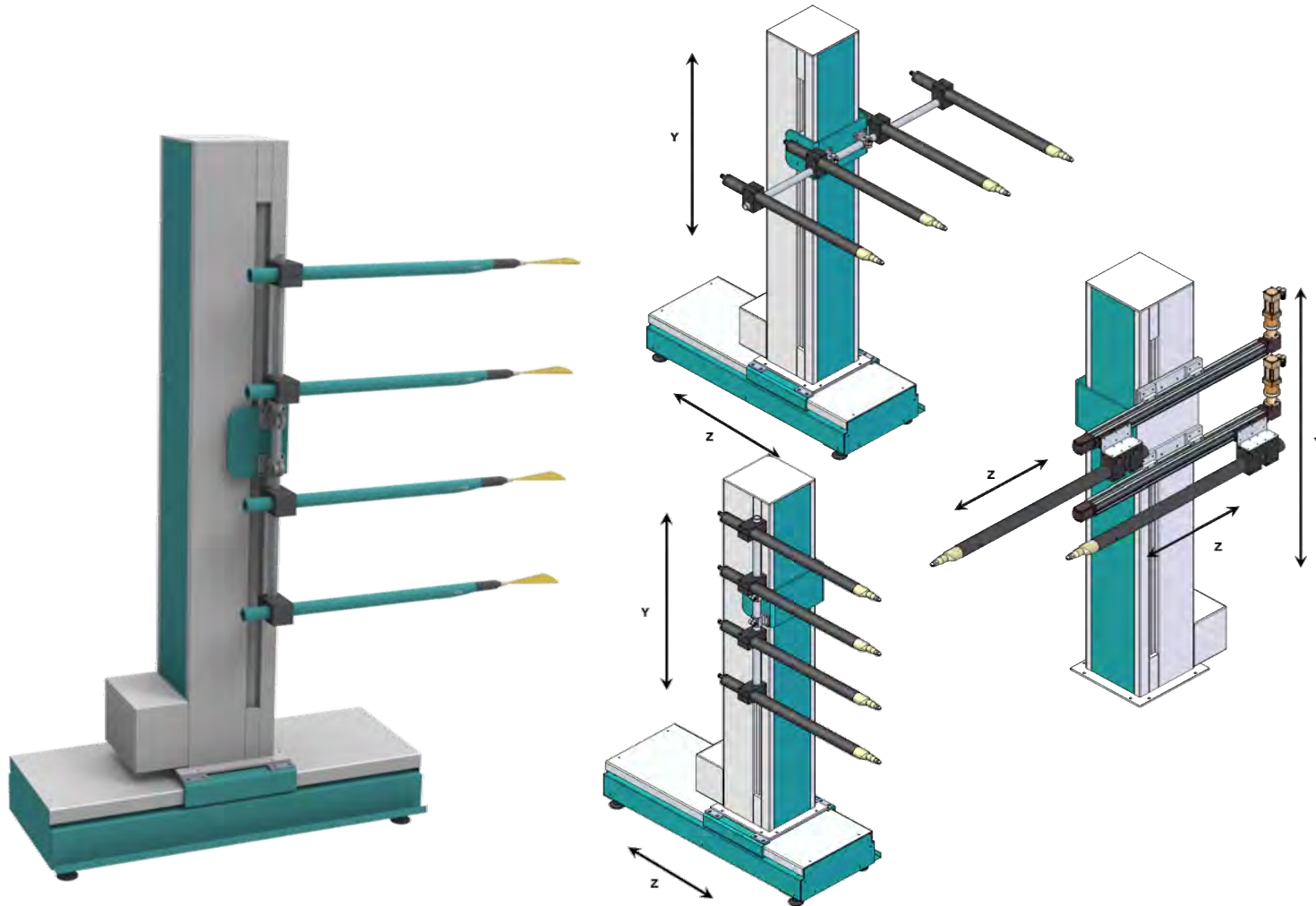
MS Cyclone Recovery





- 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



MS Reciprocators



 vertical or horizontal
gun arrangement

 up to 80 kg (176 lb.)
load

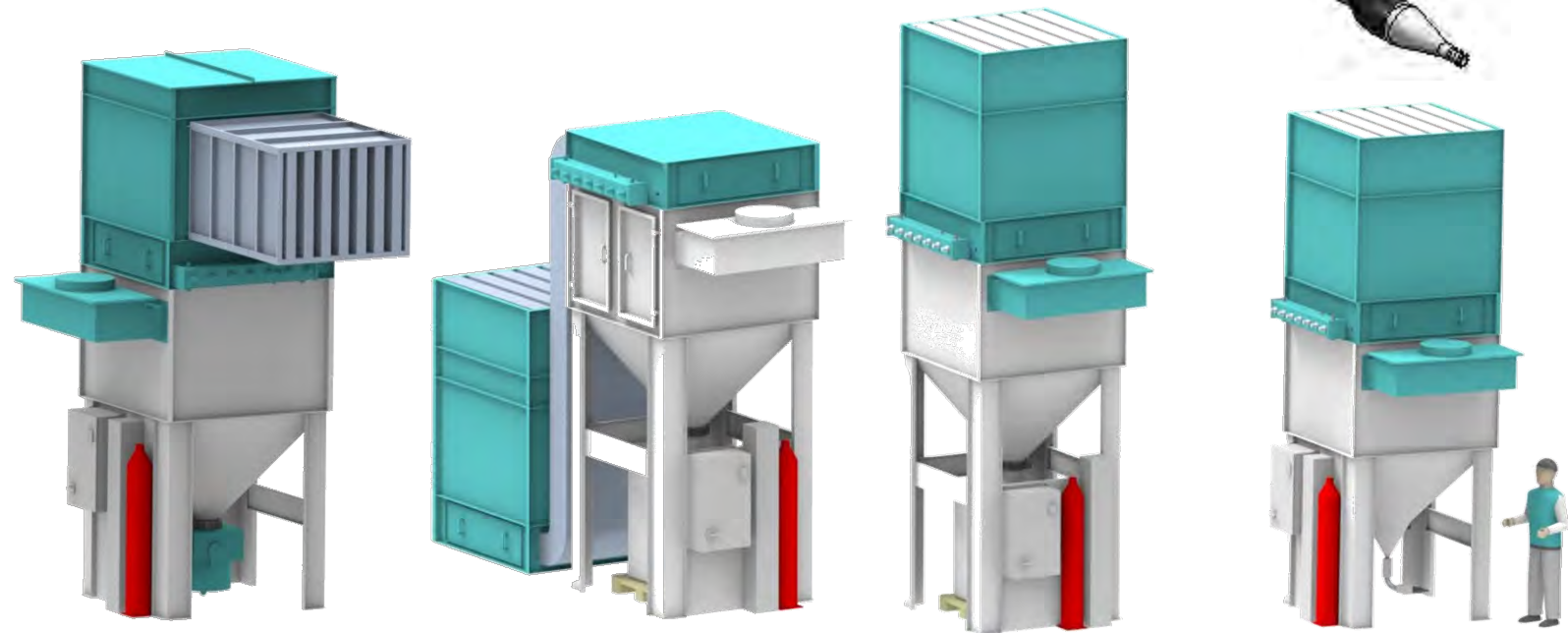
 X-Y-Z Axis

 Servo drive control

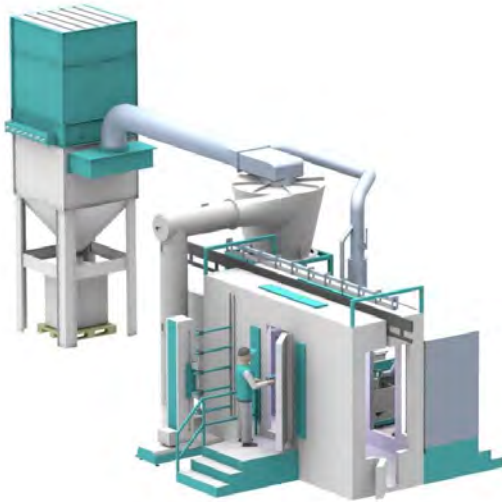
MS Filter up to 30'000 m3/h / 1900 CFM



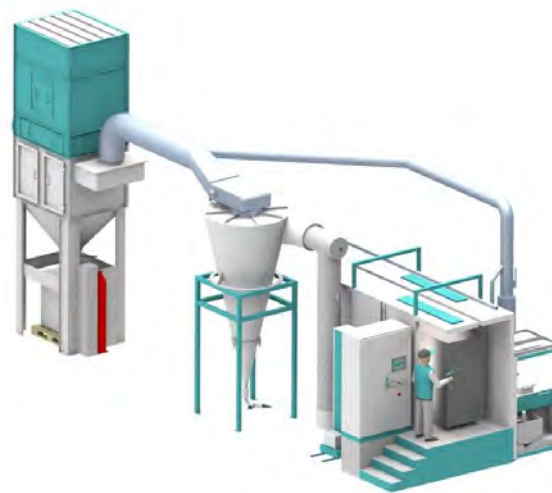
- ✓ Filter and Engine Controller with Frequency Converter (Energy Saving 30%)
- ✓ Super Long age for Filter cartridge (5 Years)
- ✓ Different sizes
- ✓ Pressure 5200Pa (0.75PSI) / 3200Pa (0.46PSI)



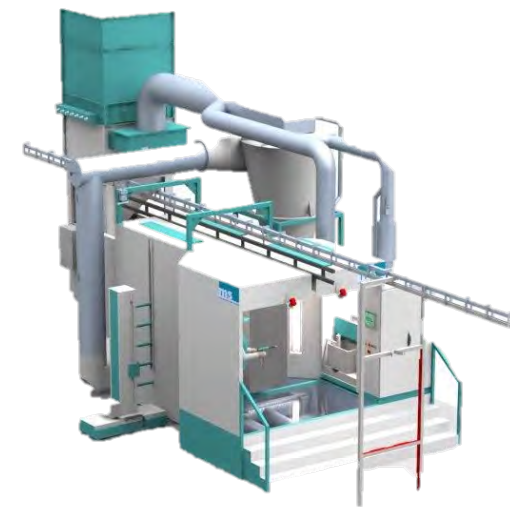
MS Fast Color Change Systems



**FCC – Fast Color
Change Cube**

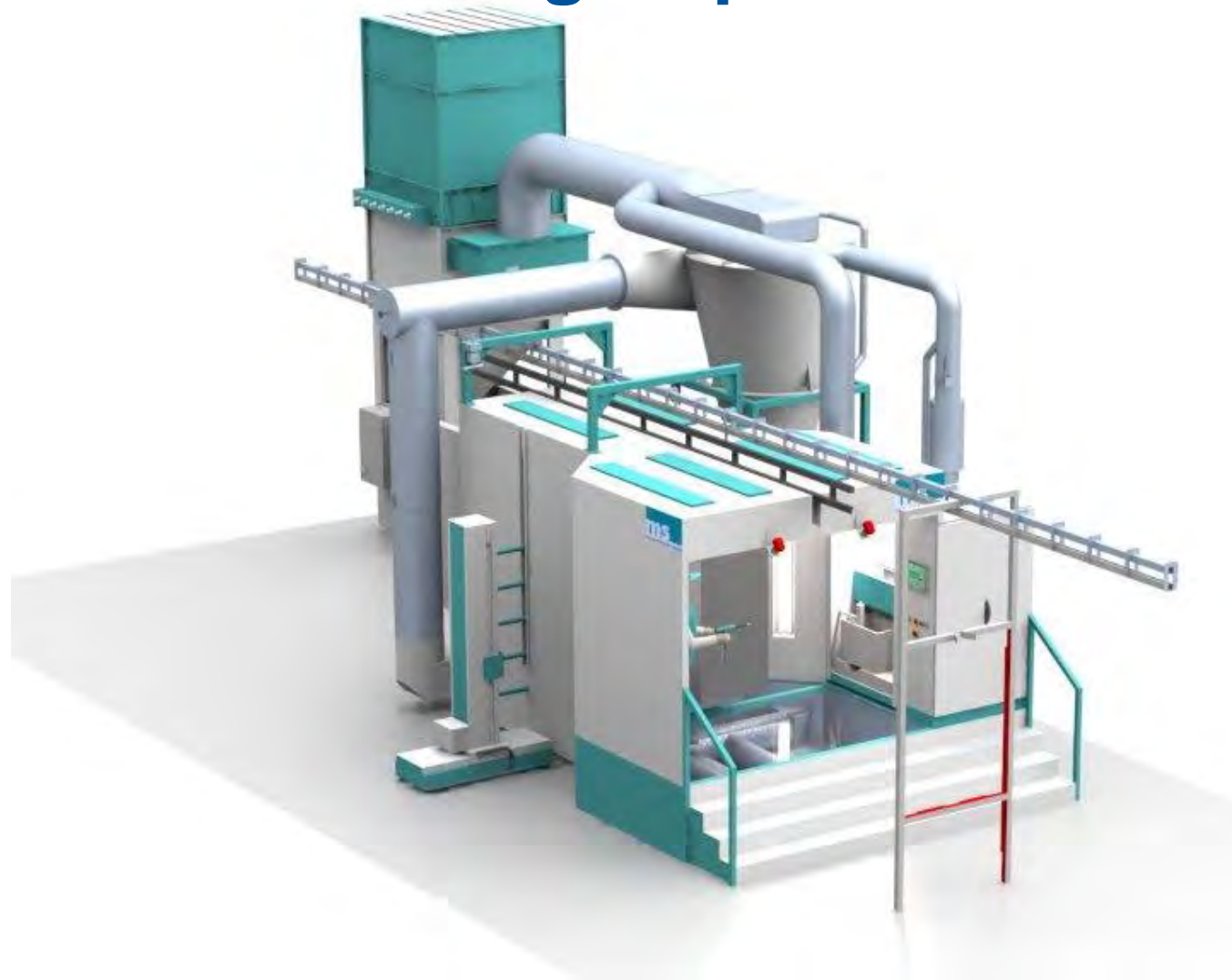


**FCS – Fast Color
Change Smart**



**FCO – Fast Color
Change Open**

FCO - Fast Color Change Open

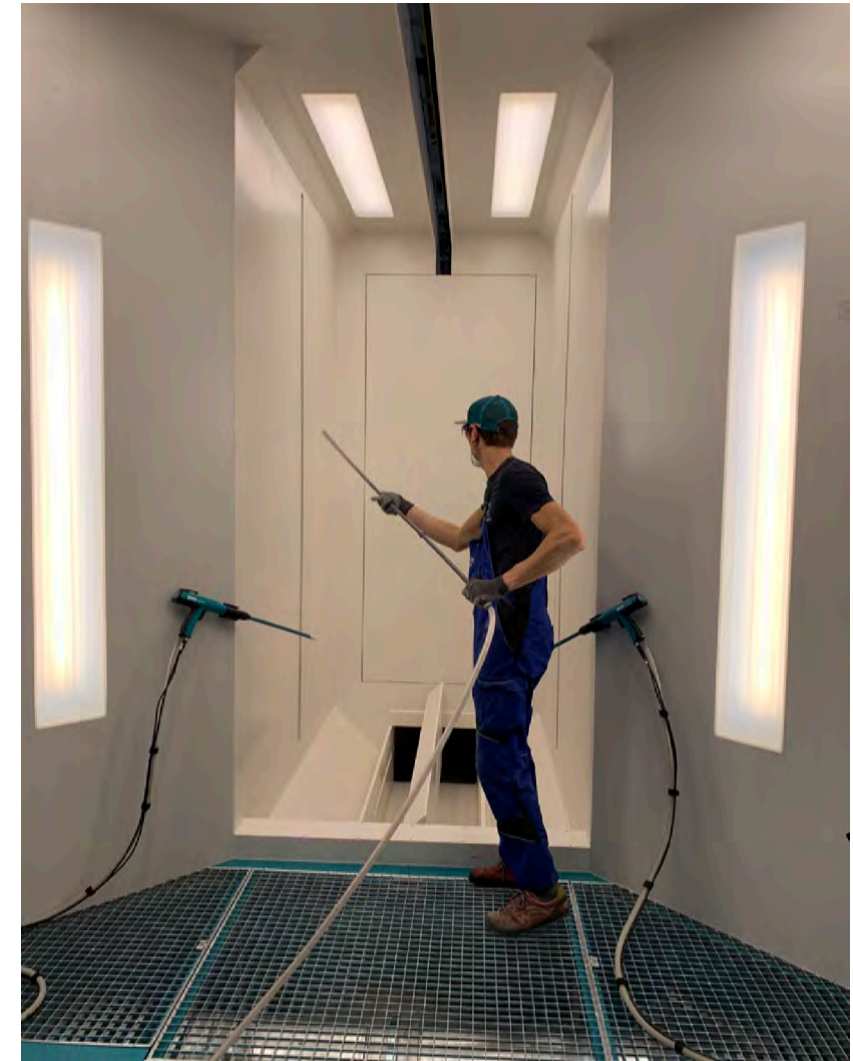


FCO Integrated Touch-Up Platforms or Lifts



Innovation *Applied*

FCO – Fast Color Change Open



FCO - JIS/JIT Concept



FCO - JIS/JIT Features

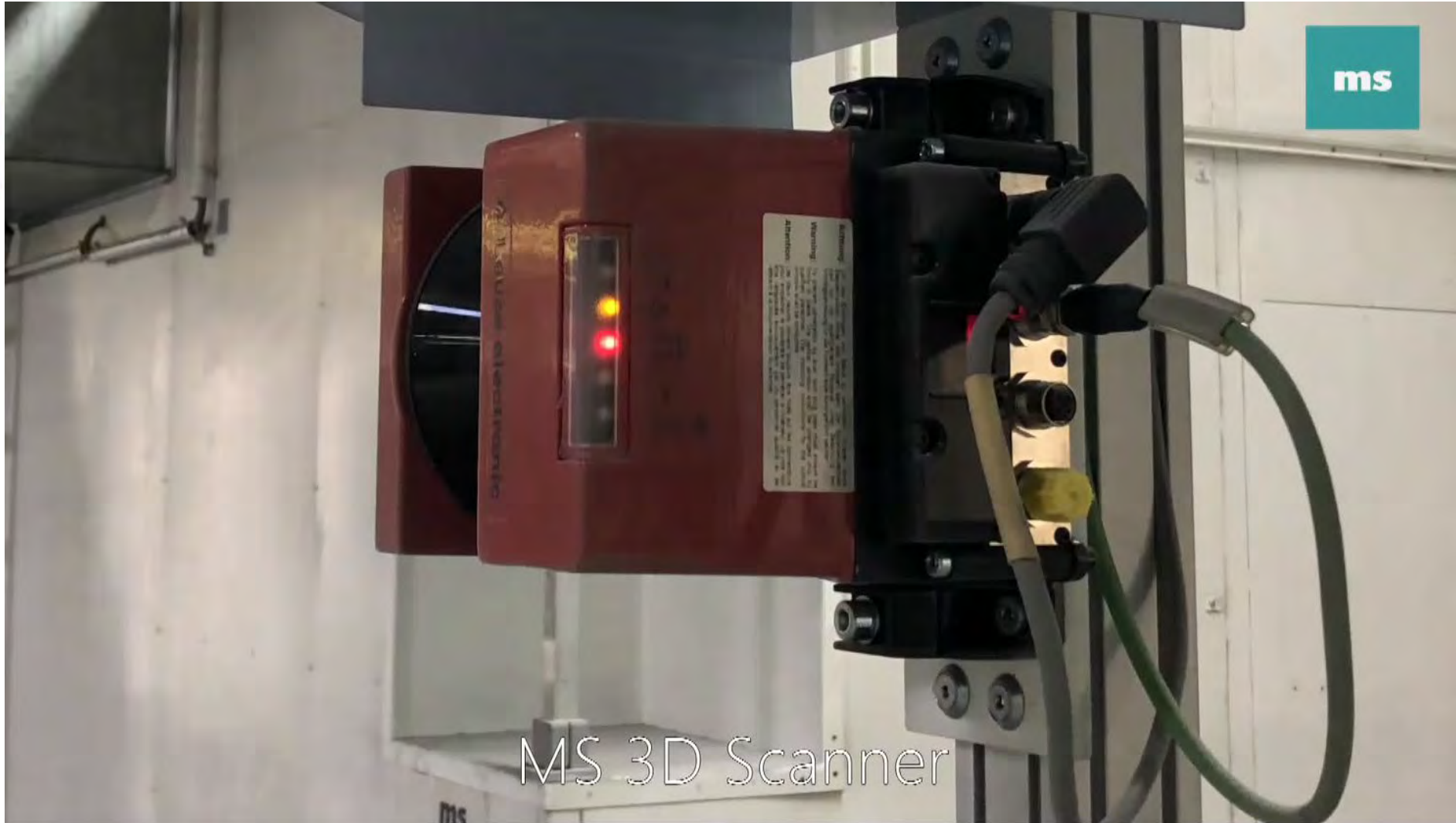


- Increased productivity with fast color change in 2.5 – 5 minutes
- JIS color change from one part to the other without interruption of production w/ two systems
- Spray for waste or recovery depending on batch size or powder consumption costs

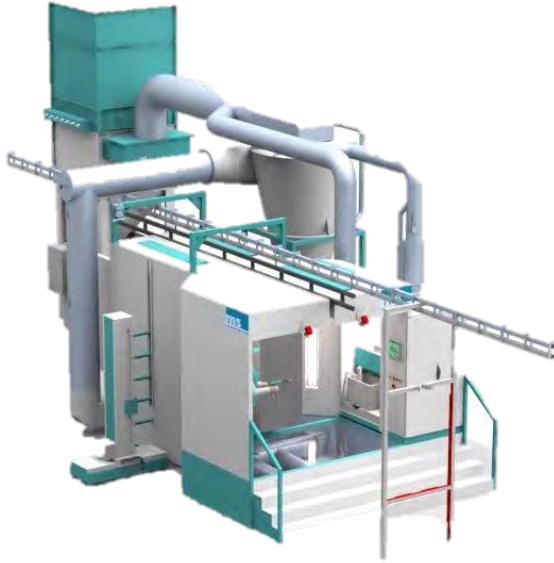
3D Scanner



3D Scanner with Z-Axis & Reciprocator



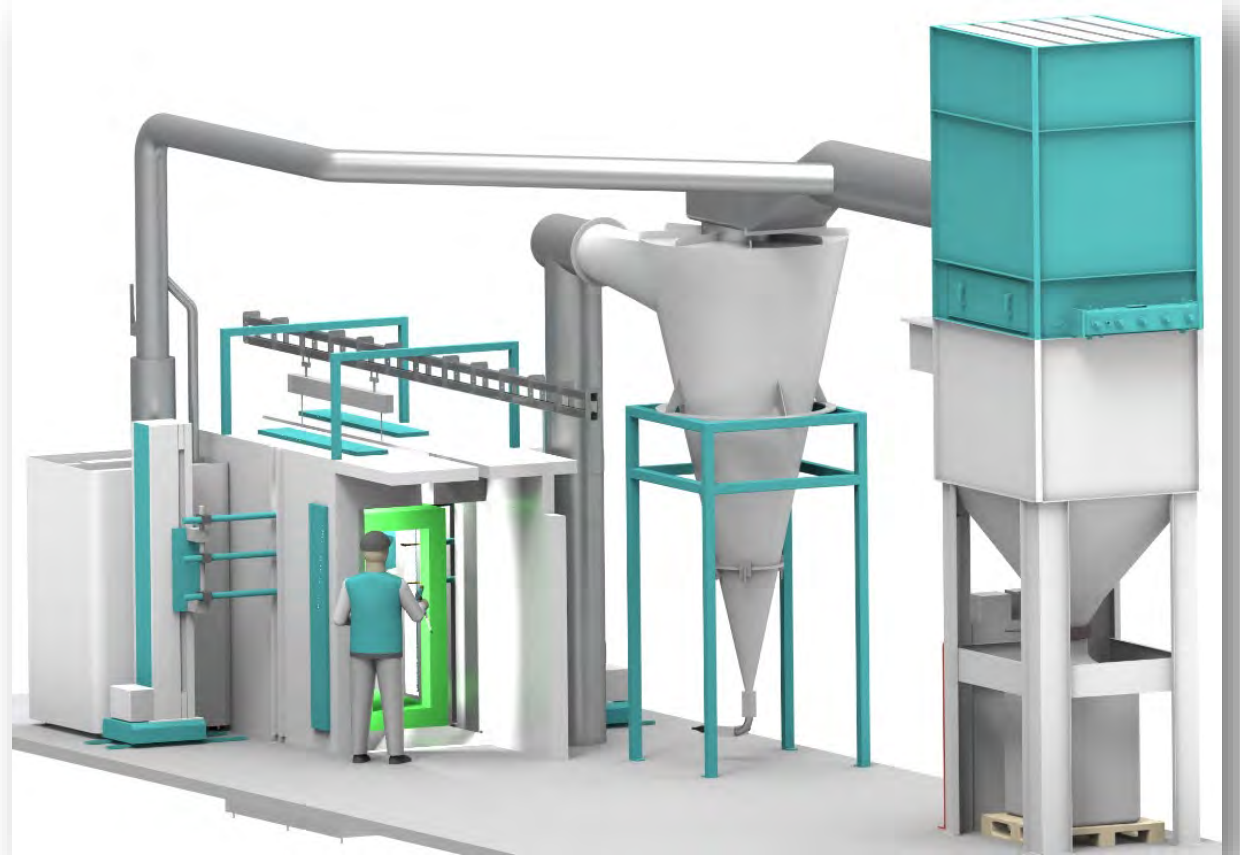
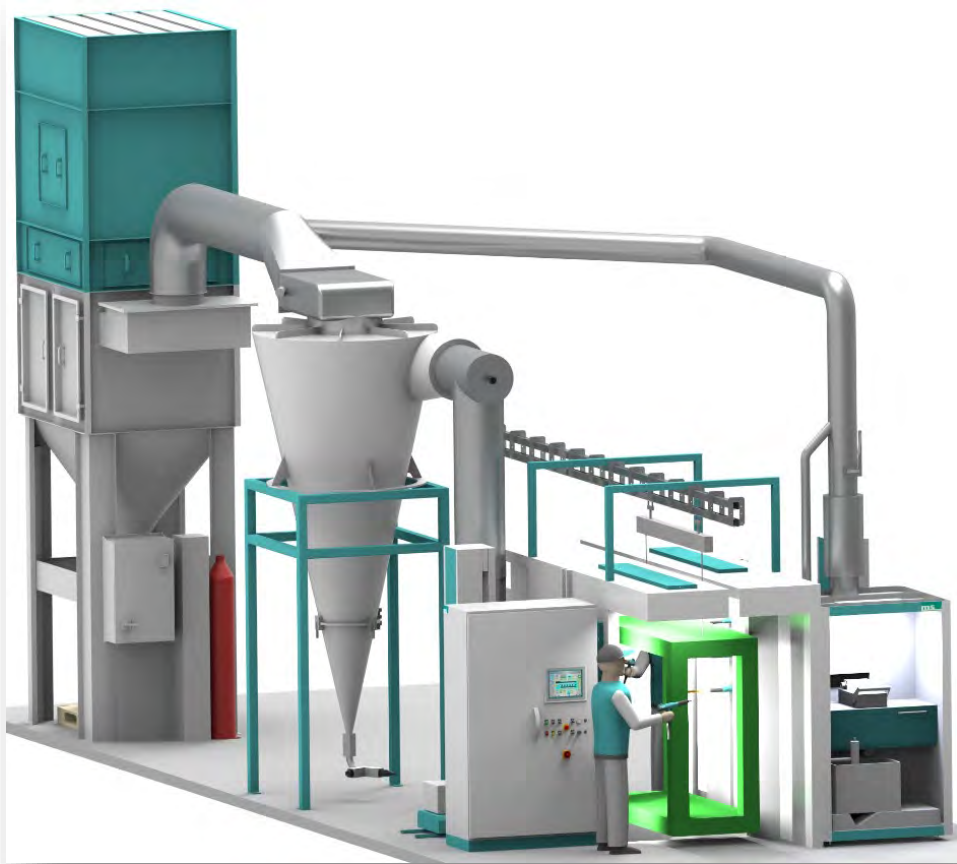
FCO Features



- 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



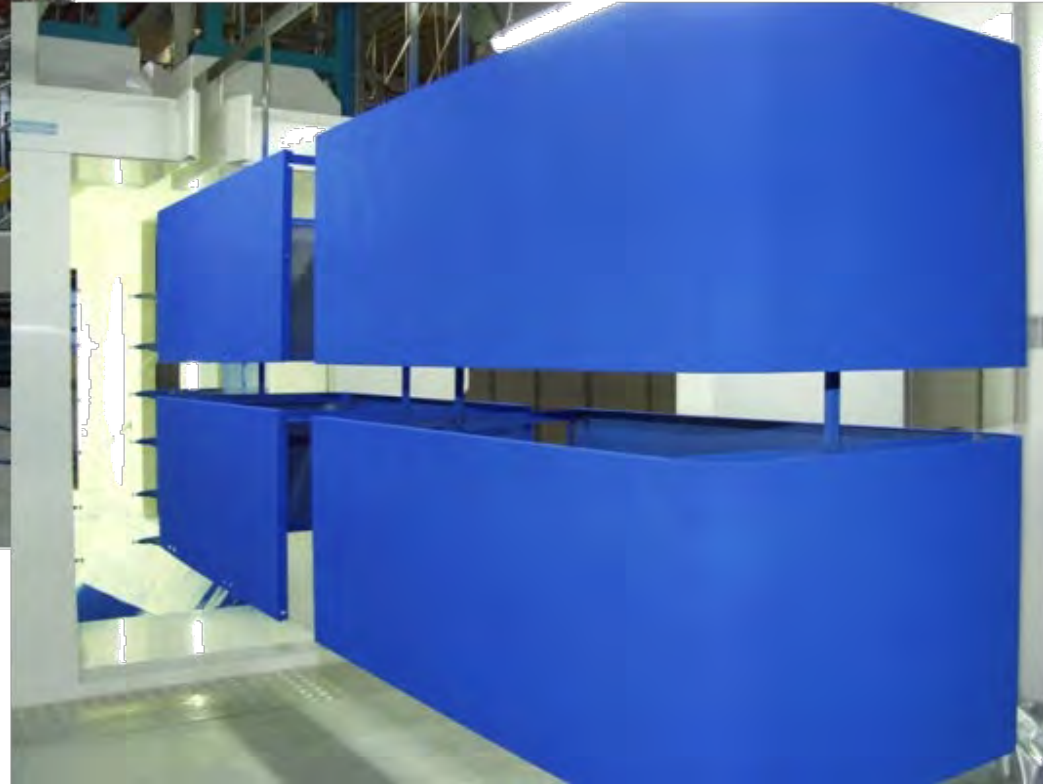
FCS – Fast Color Change Smart



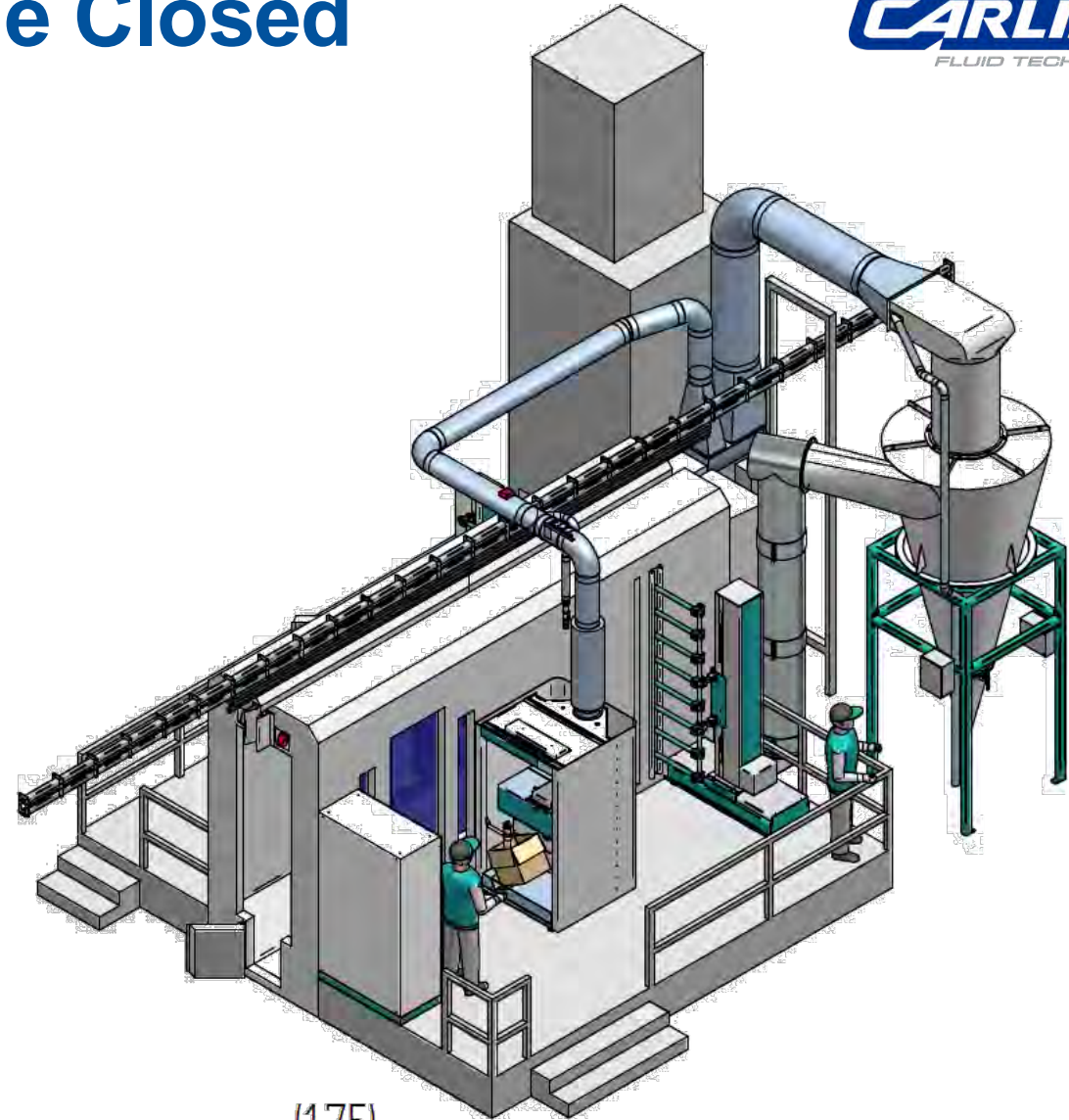
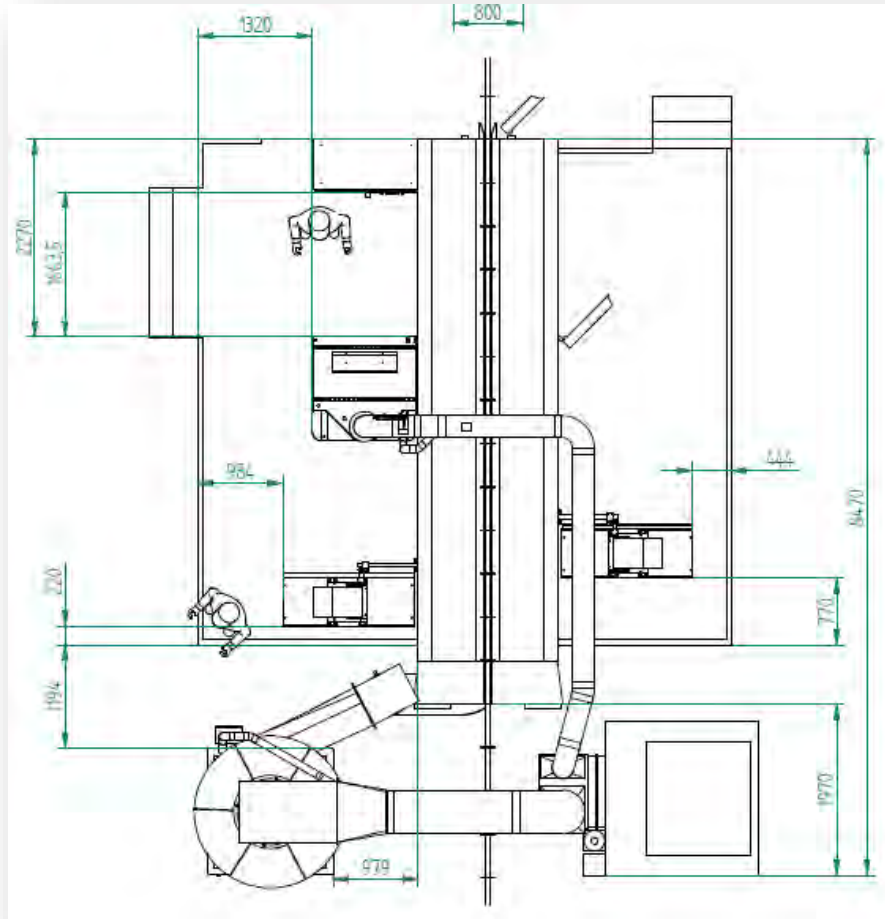
FCS – Fast Color Change Smart



FCC – Fast Color Change Closed



FCC – Fast Color Change Closed

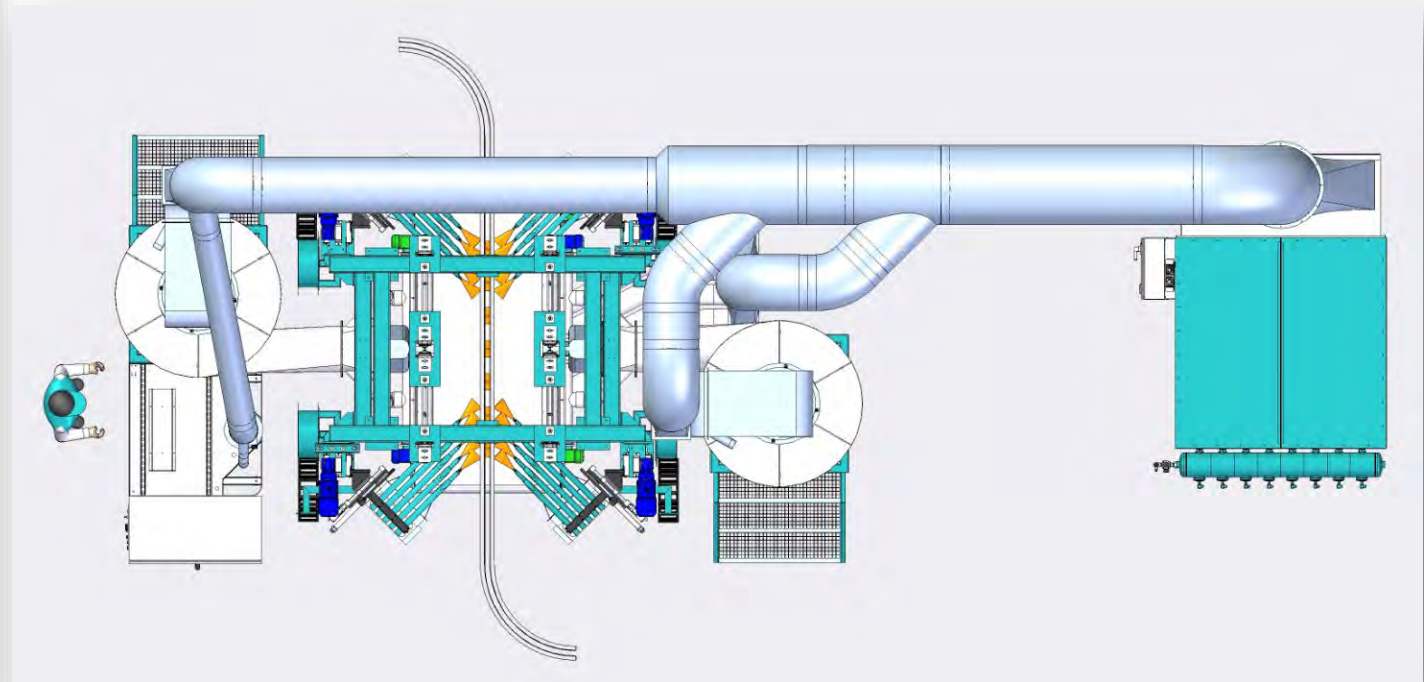
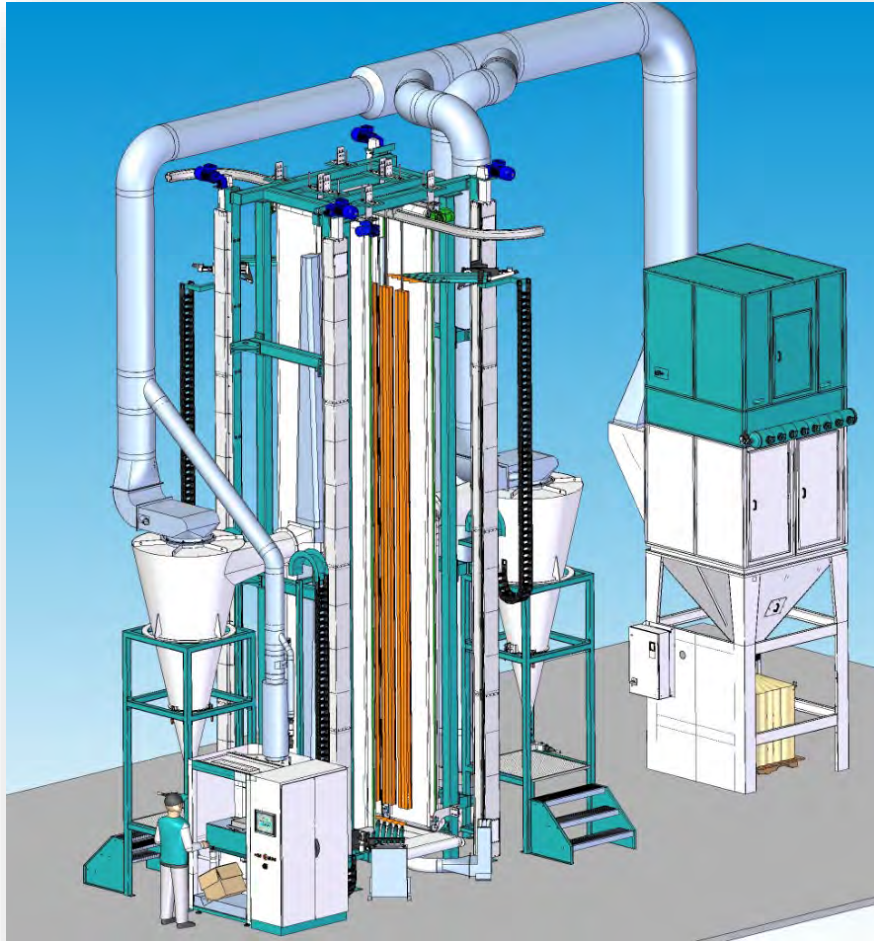


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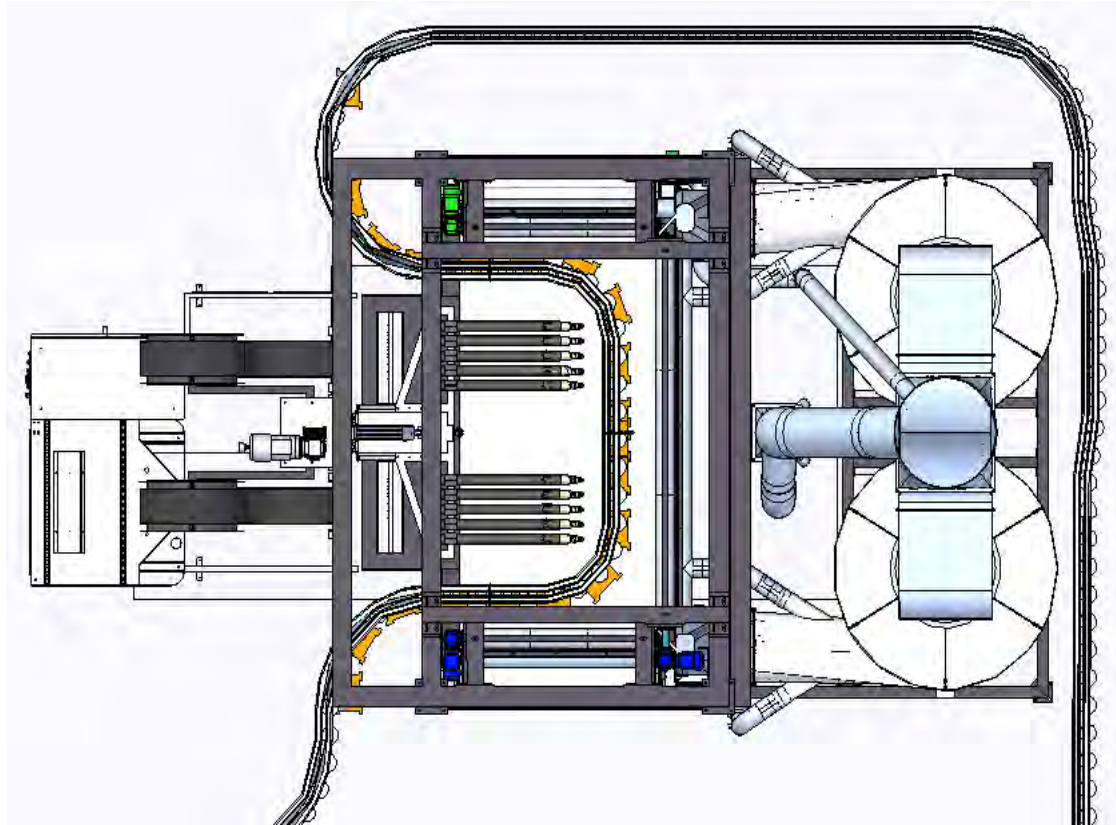
FCB – Fast Color Change Belt



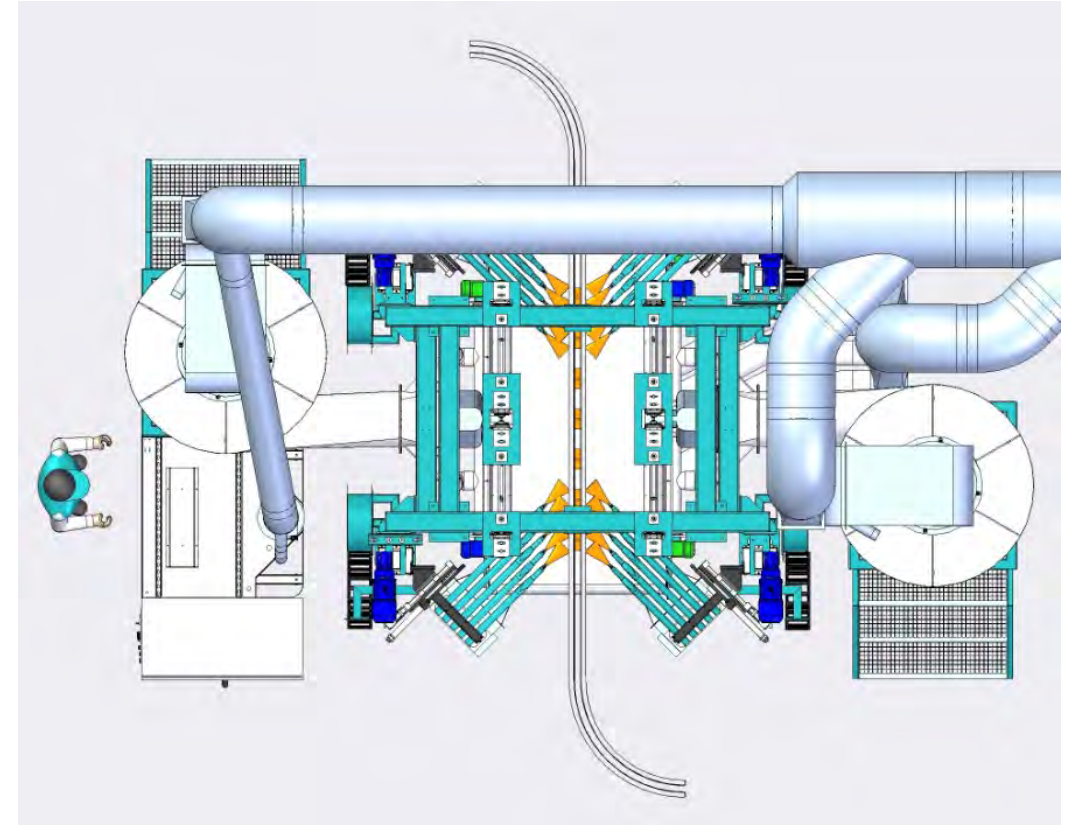
FCV – Fast Color Change Vertical - X Design



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



MS Big Part Solutions



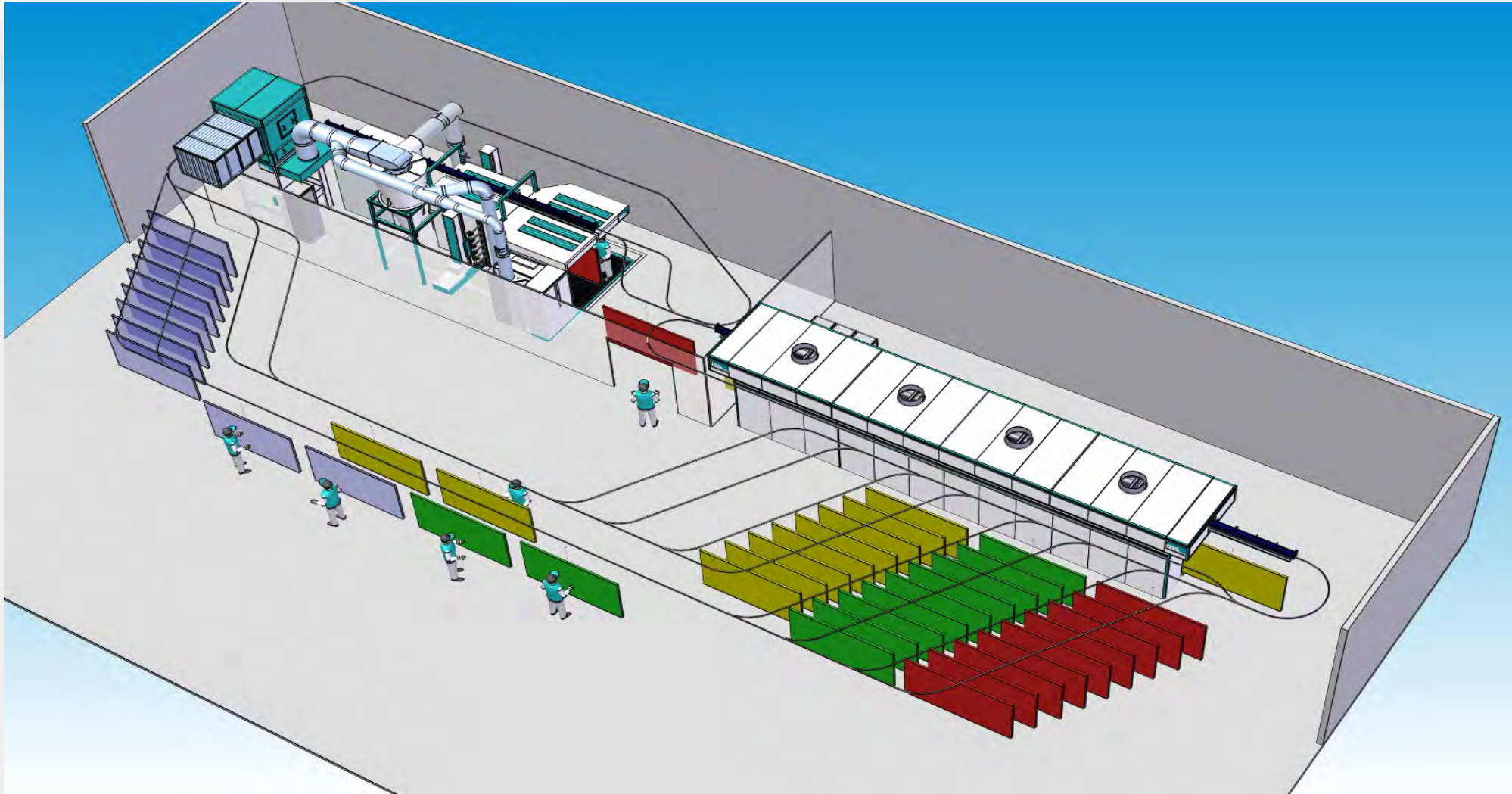
MS Robot Application for A-C-E Cabins



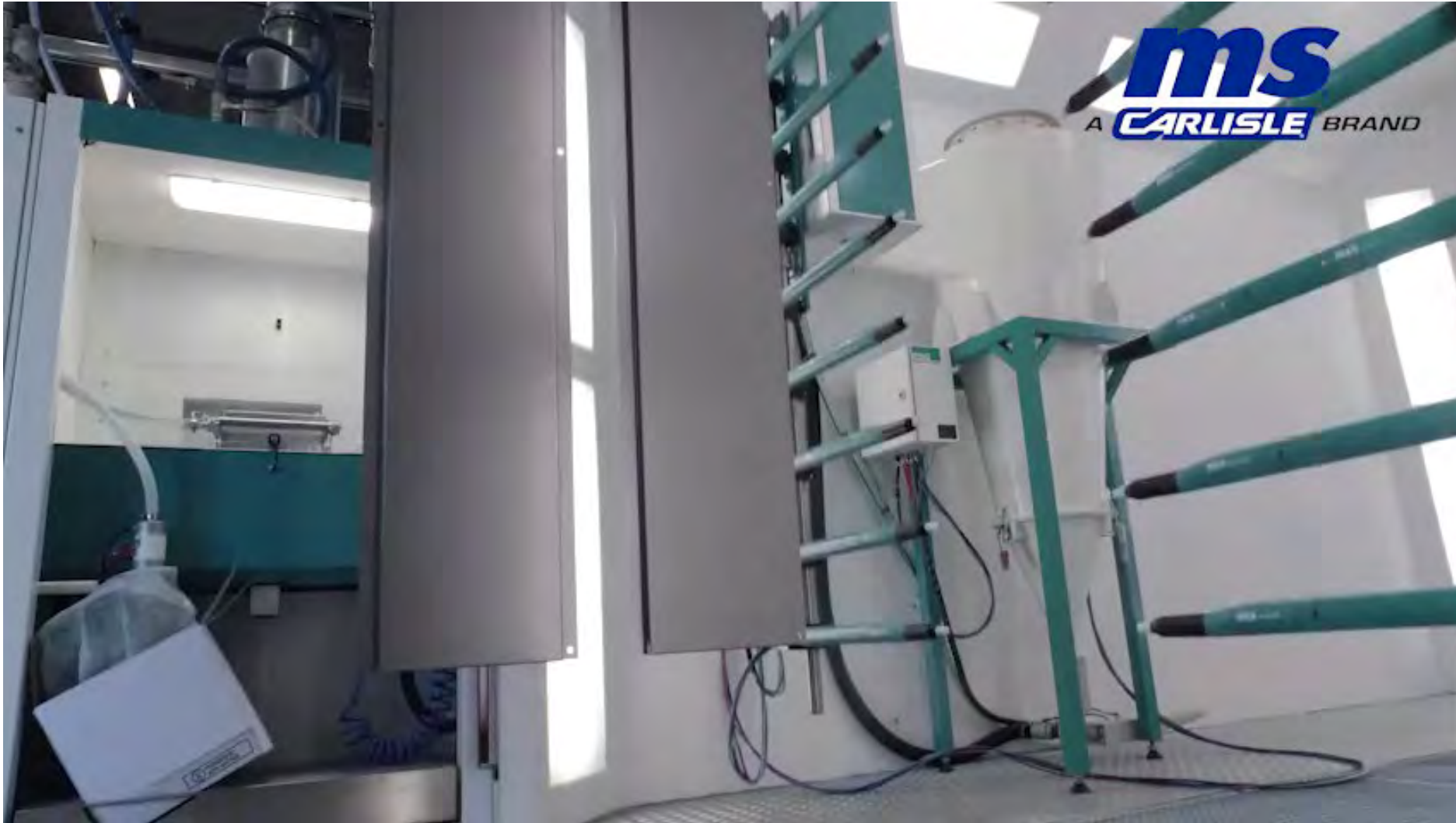
Powder Supply for Automatic Equipment



MS MDF (wood) Powder Coating Lines



MS PUMP RDF 2.0 in Action



Powder Quote Request Form






1. Fill out Quote Request Form

2. Send to:

tchambers@carlisleleft.com

QUOTE REQUEST FORM

		Project Data			
Project number:		Date:			
Sales Person		Distributor Information		Scheduling	
Project Manager (MS):		Company		Date of delivery:	
Phone:		Address		Installation date:	
E-Mail:		Sales Person		Start of Production	
Customer Data					
Company					
Address					
Address					
Contacts					
Phone:					
Mobil:					
E-Mail:					
		Length	Width	Height	
Part size LxWxH (mm):					
Conveyor speed max (m/min):					
Type of product:					
Color concept					
Main Color		RAL 9010	Second Color	RAL 5018	
Type of System		Part detection height Yes/No:			
Pretouch Yes/No		Part detection width Yes/No:			
Retouch Yes/No		Number of opening		Automatic	0 Manual



The Brands You Trust



BGK™ products deliver precision-engineered curing capabilities for a full range of coatings including liquid, powder, wax, UV and adhesives.



Binks® products boast innovative spray gun and air cap design along with industry leading pumps and controls.



DeVilbiss® products include low pressure manual and automatic spray guns and related spraying accessories. *DeVilbiss* products are widely acclaimed for ergonomics and innovative spray gun design.



Hosco® products deliver smooth bore, "cavity free" stainless steel fittings and accessories designed for use in paint circulating and application finishing systems.



ms® products include powder coating systems and equipment. *ms* is recognized throughout the world for quality, efficiency and durability.



Ransburg® manual and automatic electrostatic finishing products offer spray finishing solutions to industrial and automobile manufacturing markets.

Thank you!



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