

## CUSTOMER'S ISSUE

Traditional powder transfer systems were not suitable considering the product requires over 20 separate powders, each with varying densities and volumes. Customer also wanted the same application of CIP/SIP as the process system.

### Objective:

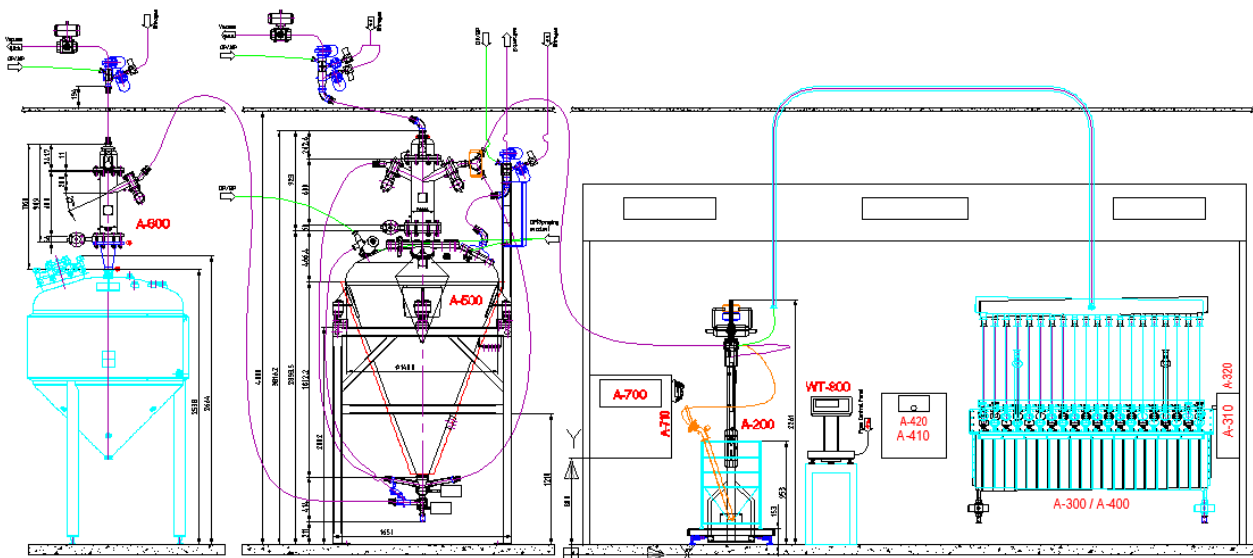
- Minimize human handling.
- Minimize losses and inaccuracies in powder transfer and measurement.
- Enable fully automated CIP/SIP to each part in contact with powders.

## CPME SOLUTION

### Description of the CPME solution:

- ✓ Simplified pressure/vacuum transfer system incorporating nitrogen.
- ✓ Mixing vessel with integrated blending and oxygen removal.
- ✓ MES computer systems to improve traceability and improve efficiency.
- ✓ Fully automated powder handling system.

### Simplified pressure/vacuum transfer system incorporating nitrogen.



Separate minor and major powder loading systems.

#### GERMANY OFFICE

##### CPME GmbH

Wuerzburger Strasse 7  
86720 Noerdlingen,  
Germany  
T +49 9081 29010 30  
F +49 9081 29010 50  
E info@cpme-gmbh.com

#### CHINA OFFICE

##### CPME China

7A, Tower B, Wangjing Building,  
Zhong Huan Nan lu 9,  
Chaoyang District, Beijing, PR of China  
T +86 10 84729972/3  
F +86 10 84729973-111  
E info@cpme-gmbh.cn

#### HONG KONG OFFICE

##### CPME Asia Pacific

C6, 11/F, Tak Wing Ind. Bldg.  
3 Tsun Wen Rd, Tuen Mun,  
Hong Kong  
T +852 3689 8991  
F +852 3689 8992  
E info@cpme-gmbh.com

#### RUSSIA OFFICE

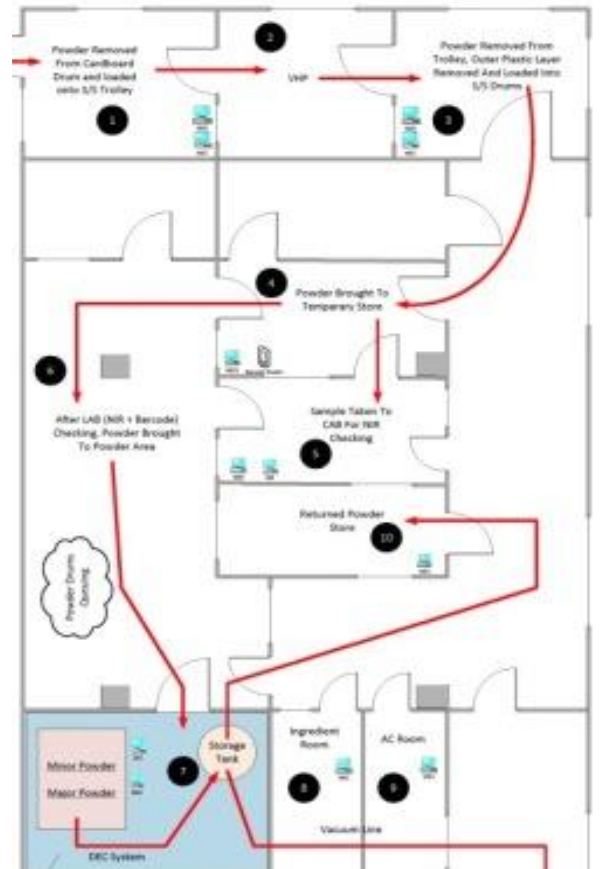
##### CPME CIS & Russia

Bibirevskaya Street 17B  
127549 Moscow,  
Russia  
T +7 499 653 76 43  
F +7 499 653 76 43  
E info@cpme-gmbh.com

Mixing vessel with integrated blending and oxygen removal.



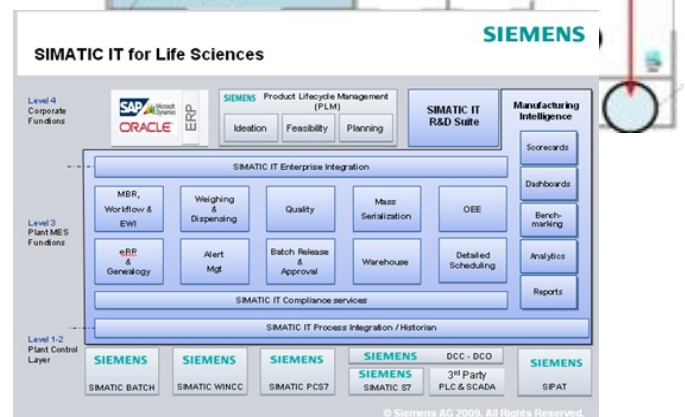
MES computer systems to improve traceability and improve efficiency.



Fully automated powder handling system.



Powder handling lance racking system including CIP and SIP.



Use of Manufacturing Execution Systems (MES) for full SOP and validated control of material and personnel ingress.