

GLOBAL COVERAGE



inert

We Engineer Results.



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ASSISTING TOMORROW'S TECHNOLOGY TODAY

SOLUTIONS FOR EVERY STEP OF YOUR PROCESS

POWDER

POWDER STORAGE CABINET



**NEW
PRODUCT!**

- ▷ Inert atmosphere storage <1% O₂
- ▷ Two storage compartments, independently controlled
- ▷ Capacity up to 5000lb total storage
- ▷ Safety interlocked doors
- ▷ HEPA Filtration
- ▷ PLC controlled purge in each compartment

POST-PROCESSING

DE-POWDERING STATIONS

- ▷ *4 models available
- ▷ Hermetically sealed chamber
- ▷ Interlocked door for safety
- ▷ Vacuum hose and blow off gun
- ▷ Powder reclamation



Automatic purge valve
0-25% O₂ analyzer



PRINT



GAS PURIFICATION SYSTEMS



- ▷ <1ppm of O₂ and H₂O
- ▷ Real-time monitoring
- ▷ Data logging
- ▷ Communication to / control from customer device
- ▷ Dual purifier columns
- ▷ Integrate to your printer
- ▷ Closed loop circulation

NEW AUTOMATED DE-POWDERING SYSTEM



- ▷ Vacuum de-powdering
- ▷ Programmable controls
- ▷ Hand held joystick for teaching mode

**NEW
PRODUCT!**



Operator
Protection



Process
Safety



Powder
Storage



Reuse
Powder



Reduce gas
consumption



Cost
saving

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POWDER STORAGE CABINET



**Powder Storage cabinet protects
powders from O₂ and H₂O contamination**



- Inert atmosphere storage <1% O₂
- Two storage compartment independently controlled
- Capacity up to 5000lb total storage
- Safety interlocked doors
- Hepa filtration
- PLC controlled purge in each compartment

SPECIFICATIONS

Internal Finish: 304 Stainless steel

Wall Thickness: 12 Gauge (2.6mm)

Internal Dimensions: 724mm W x 778mm D x 781mm H (per enclosure)

External Dimensions: 1315mm W x 1097mm D x 2044.4mm H

Auto Purge valve: O₂ (%)Level, Timer or manually controlled

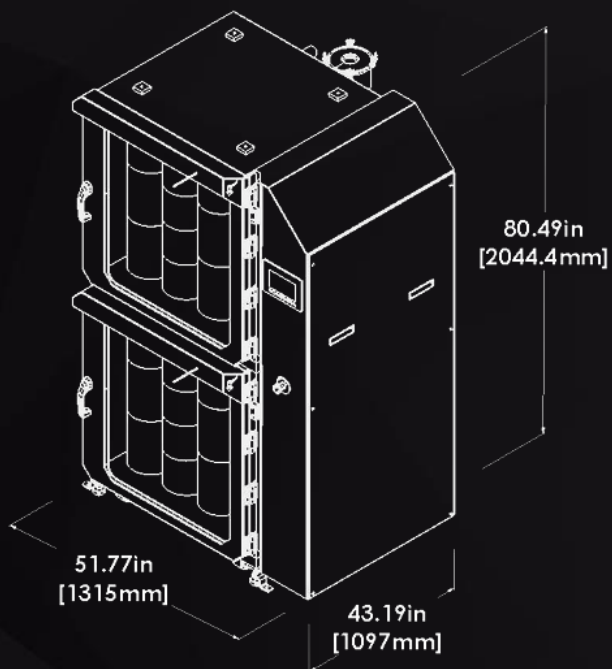
Siemens SIMATIC S7-1200 PLC control system

Automatic pressure control: (+/- 15 mbar)

Integrated Oxygen analyzer: Range 0-25%

Power: 200-240 VAC 50/60 Hz 20 Amp

Filters: Outlet HEPA (99.99% vs 0.3-micron MPPS)



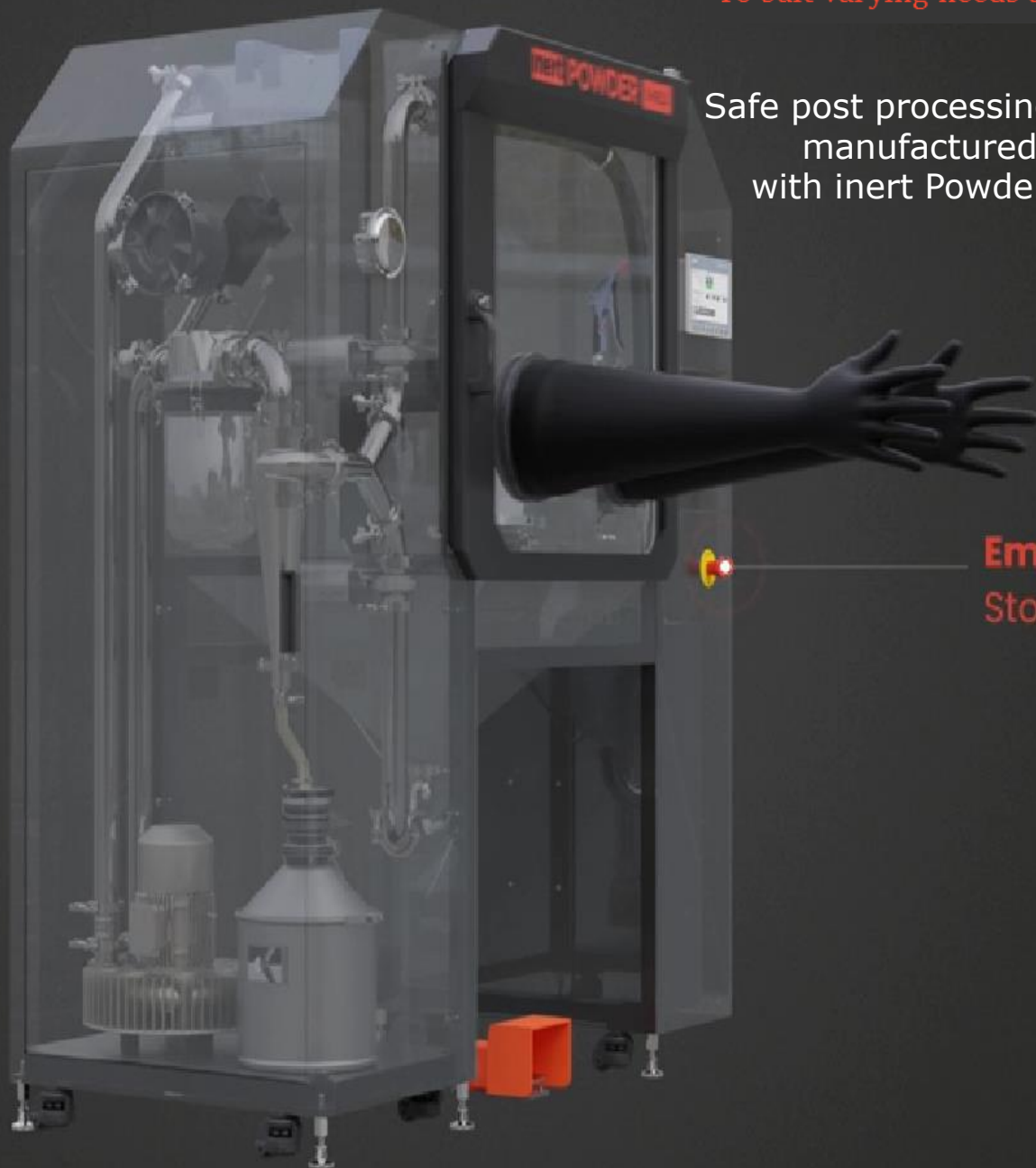
Inert

inertPOWDER **SHIELD**

MODEL OPTIONS

To suit varying needs and Budgets

Safe post processing of additive
manufactured parts
with inert PowderShield™



**Emergency
Stop button**



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inertPOWDER **SHIELD**

SPECIFICATIONS

Internal Finish: Type #4, 304 Stainless steel

External Surfaces: RAL 7035 Black

Wall Thickness: 0.105" (2.6mm)

Internal Dimensions: 724mm W x 778mm D x 781mm H

PowderShield 999100 & 999101

External Dimensions: 1177mm W x 1113mm D x 1939mm H

PowderShield 999102 & 999103

External Dimensions: 1714mm W x 907mm D x 1939mm H

Auto Purge valve: O₂ (%)Level, Timer or manually controlled

Siemens SIMATIC S7-1200 PLC control system

Siemens KTP700 7"(177.8 mm) color touch screen HMI

Automatic pressure control: (+/- 15 mbar)

Integrated Oxygen analyzer: Range 0-25%

Power: 200-240 VAC 50/60 Hz 20 Amp

Filters: 1 x Inlet/ 1 x Outlet HEPA (99.99% vs 0.3 micron MPPS)



Safety

Post processing AM parts in PowderShield™ prevents the inhalation of particles which can cause respiratory problems for those that handle powders. Maintaining low ppm O₂ levels prevents oxidizing micronic powders for safe handling while avoiding combustion or ignition.



Traceability

Many Q/A processes require that atmospheric conditions be well documented. An Argon Management System offers a simple and effective way to register and record the levels of oxygen and moisture during AM post processing



Savings

Post processing in an inert environment allows excess powders to be reclaimed and reused due to the lack of atmospheric contamination. PowderShield's™ built-in gravity fed powder collection system funnels powders to sieves or hoppers for characterization, and reuse