

# TOTAL DUST MITIGATION

## SOLUTIONS FOR 3D PRINTING ADDITIVE MANUFACTURING

POST PROCESSING



EXTRACTION OF REACTIVE/  
COMBUSTIBLE POWDERS

CLEANING AND  
MAINTENANCE



AVOID CROSS  
CONTAMINATION OF POWDERS



RECLAIMING OF  
POWDERS



WORKERS SAFETY AND  
PREVENTION OF EXPLOSION





## INERT SOLUTIONS FOR REACTIVE METAL POWDERS

- **Inert EX technology:** eliminates the risk of explosion inside the vacuum cleaner by vacuuming the potentially explosive powders directly into an inert liquid.
- **AISI304 stainless steel Inert Canister:** contains the inert liquid to trap the vacuumed material and make it harmless. A PPL filter retains the vacuumed powder in the inert bath while three other **fiber filters** retain the mist generated by the vacuuming.
- Vacuums Available with **ATEX certification** for zone 22 and inner part zone 20



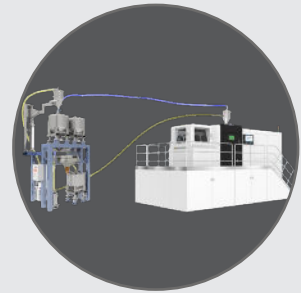
## SEPARATORS AND ACCESSORIES

- Specific separators for the safe collection of both **Polymer/nonreactive metals** (e.g., chrome, stainless steel) and **Reactive metals** (e.g., aluminum, titanium).
- Separators **prevent cross-contamination:** each type of powder has a dedicated collection unit.
- Separators **protect** the primary filter and improve suction performance.
- **Accessories** ease operators' work, making it effective, efficient, and timesaving.



## SOLUTIONS FOR NON REACTIVE POWDER (POLYMER AND METALS)

- **Safety:** direct extraction of powder on machinery with vacuums specifically designed to handle combustible dust. Direct extraction safeguards workers' health by preventing any risks of inhalation.
- **Long-lasting and tireless:** the Brushless motors installed ensure a long lifetime (over 10,000 hours) and are totally maintenance-free. Plus, the absence of brushes prevents sparks, thus guaranteeing total safety, even with hazardous material.
- **Total filtration:** antistatic class M (series) and (optional) HEPA filters. Clean air into the environment is always guaranteed.



## PNEUMATIC CONVEYORS

- **Modular** and customizable solutions to load and unload powders on 3D printers.
- **Electrical** or **compressed air** supply, according to the needs.
- Available in **ATEX** and/or **Inert** versions.
- Possibility of **integration** on 3D printers, including inert gas solutions for reactive metal powders.

