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

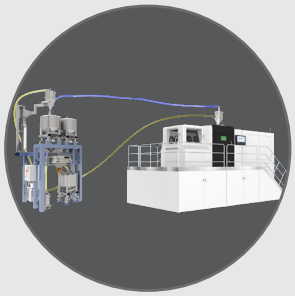
• **Inert EX technology**: eliminates the risk of explosion inside the vacuum cleaner by vacuuming the potentially explosive powders directly into an inert liquid.
• **AISI304** stainless steel **Inert Canister:** contains the inert liquid to trap the vacuumed material and make it harmless. A **PPL** 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

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.

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.



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.

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