

# ADDITIVE MANUFACTURING POWDERS AND PARTS



# FLEXIBLE ADDITIVE SOLUTIONS

**At Wall Colmonoy, we bring together nearly 90 years of metallurgical experience to our advanced Additive Manufacturing (AM) technology.**

Our additive capabilities include the development and production of metal powders and printed parts - designed for industries that demand precision and performance, such as Aerospace, Automotive, Energy, Medical, Food Processing, and Industrial Manufacturing.

We deliver complete additive solutions, from powder design and atomisation to printing, sintering and finishing, ensuring quality and reliability at every step.

Whether you're developing lightweight structures, repair applications, or next-generation part geometries, Wall Colmonoy is your partner in precision, performance and innovation.

## Powders

Wall Colmonoy supplies high-performance metal powders engineered specifically for AM processes such as Laser Powder Bed Fusion (LPBF), Directed Energy Deposition (DED), Electron Beam Melting (EBM), and Binder Jetting (BJ).

Our powders deliver consistent flowability, sphericity, and purity - ensuring reliable build quality and part performance from layer to layer.

Our long history in alloy development and surface engineering means our materials are engineered for success across multiple AM platforms.



*High Performance Metal Powder*

### Wall Colmonoy offers a range of proven alloys for Additive Manufacturing.

Colmonoy® nickel-, Wallex® cobalt-, and Colferoloy™ iron-based alloys exhibit excellent particle morphology, consistent sizing and controlled chemistry to ensure reliable part density and metallurgical integrity in every build.

- Wallex® ASTM F75 CoCrMo
- Wallex® CoCrW
- Wallex® CoCrMoW
- Wallex® 6
- Wallex® 12
- Wallex® 21
- Colferoloy™ SS 316L
- Colferoloy™ SS 420
- Colferoloy™ SS 430
- Colferoloy™ 17-4PH
- Colferoloy™ D2, H13
- Colferoloy™ H13
- Colmonoy® 625
- Colmonoy® 276



*CoCrMoW Dental Crown*



*Rocket Nozzle Printing*



*SS 316L Shoe Sole Mold*

### Parts

Wall Colmonoy offers 3D printed parts, manufactured on the Desktop Metal Shop System™. We produce parts with superior surface finish and resolution versus laser-based 3D printing systems at a competitive cost.

The Wall Colmonoy Additive Team provides advice to advance complex manufacturing schemes, using state-of-the-art modelling technology and experience as the UK's first machine shop to adopt the Shop System™.

3D printed components are more suitable for iterative design. Changes can be made and printed in the same day, allowing flexibility and innovation in the design process.

### Benefits

- Design freedom for complex and lightweight structures
- Reduced material waste and shorter lead times
- Reliable, repeatable part quality
- Tailored alloys for mechanical and thermal performance
- Certified quality systems (ISO 9001)



**Wall Colmonoy. Making Metals Work Harder Since 1938.**

#### EUROPEAN HEADQUARTERS

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