

Metal 3D printing offers an ideal solution for producing parts and prototypes in metal. With the main advantage of weight reduction and the possibility to produce highly complex designs, it's the perfect complement to CNC machining and other metal technologies.

ARRK's project managers are your gateway for metal 3D printed parts and associated services. Through our site in France and its network, we are able to support clients who require this process to achieve their specific needs. 3D metal printing offers durable parts with great mechanical and chemical resistance with density up to 99.9%.



We offer a wide range of post processing services that improve the properties of the parts, as well as surface finishing and dimensional reports to certify the quality of the parts.

Metal 3D printing: why choose this additive solution

Most parts can still be made faster, cheaper and with higher precision through other processes besides metal 3D printing. However, this process is an ideal solution where:

- The part cannot be CNC machined or cast because of its complex geometry and thin wall sections.
- Parts that have been through topology optimisation benefit particularly from an additive layer manufacturing process to provide lightweight parts.
- The part requires high performance materials.



Metal 3D printing: Industries using this process and why

Metal 3D printing was initially used in the aerospace industry, where weight reduction is essential to save fuel costs. Today though, this technology is used by more and more industries because of the design freedom and flexibility it offers.

Applications today can be found in the medical, automotive, sports, energy & industrial automation sectors, to develop prototypes, small quantities or to make customized products. You can now design with this process in mind, you can therefore have designs that previously could not be manufactured using traditional methods.

Additional services:

- CNC machining to meet required tolerances
- Heat treatments: stress relief, tempering, ageing
- Surface finish: sandblast, polish, satin
- Galvanisation, coating and paint
- Quality control, CMM inspection report, material analysis

Materials offered:

Stainless steel, Aluminium, Inconel, Titanium, Cobalt Chrome, Copper, etc.

Please contact us for more details about this service

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