



ECO
RESPONSABILITY
3D METAL

Following the commissioning of the new 3D metal additive manufacturing plant at the beginning of 2021, EAC - Ornaments Métalliques has been taking further measures to safeguard the environment and the company continues to be involved in sustainable development.

The advantages of Metal Binder Jetting (MBJ) technology :

This technology allows EAC - Ornaments Metalliques to :



Augment production



Offer more complex forms than
any existing traditional
technology



Attain a flawless
standard of quality at
lower cost

How does the 3D printer with MBJ technology produce eco benefits for EAC ?



Less transport due to
local production



Production on demand,
ie with zero stock or
waste



Endless recycling of
materials used in the
manufacturing process



This technology makes it possible to calculate and use the quantity of material needed as precisely as possible (no more machining-related waste such as chips, cutting oil or cutting tools). Unlike subtractive manufacturing, 3D printing only uses the material it needs by adding it layer by layer. There is much less spoilage and therefore less waste.

We don't need dedicated production tools such as moulds. The printer uses Metal Binder Jetting (MBJ) technology, which does not involve melting the metal powder. This means that there is no waste and we can mass produce high precision parts with fine surface finishes.

The speed of producing the first prototype part allows us to modify it rapidly via our 3D file and thus to have a more finished product more quickly - unlike the use of moulds/tools which is more time consuming, costly and energy consuming.

Because the design is less bulky the finished parts are lighter for the same strength than in more conventional production.



All of the above has further strengthened EAC's resolve to acquire this 4.0 production unit, because in addition to offering a real industrial advantage, it is a step towards greener and more environmentally responsible production.

The Desktop Metal Shop is a great example of environmentally responsible technology and EAC is proud to be one of the few companies in the world that is able to use this machine.

EAC and our customers are enthusiastically committed to the idea of being able to design and produce products of flawless quality, made in France and respecting the environment.



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