

Metal Additive Manufacturing

**Software and Hardware Solutions
for machine manufacturers**

The Challenges of Manufacturing Metal Machines

You may be an expert in building machines for traditional manufacturing techniques, but manufacturing 3D printing machines is a whole new story. **Manufacturing Metal AM machines in particular requires specific know-how.**

You need to explore metal materials and parameter sets, as well as design the machine, including a camera, sensors and heat control.

The learning curve is characterized by trial and error, steadily declining funds, and a long time-to-market period. **Developing a new 3D printing machine can take more than a year.**



Image: VTT, Nurmi Cylinders Oy, and Materialise

The Benefits of Metal Additive Manufacturing

The reward for choosing to use Metal AM for the right application is that you offer your customers **design freedom, production speed and cost reduction.**

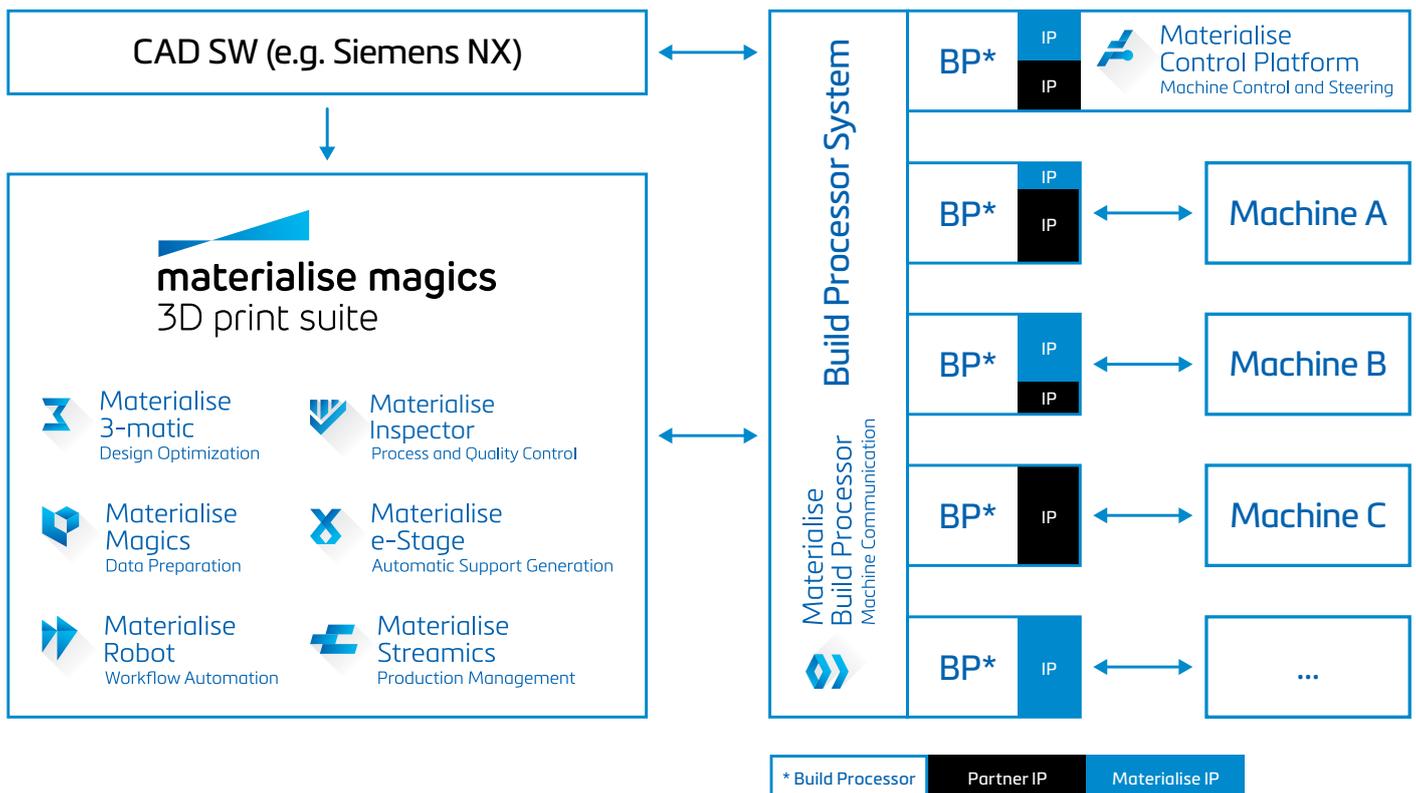
We would love to help you get started in this industry and to set up a reliable business together, whether you are new to the business or already have some experience.

Our consultancy, combined with the support of our software and hardware, enables you **to shorten your time to market, increase part quality and build your own IP on top of our extensive AM expertise.**



Image: Altair, Renishaw and Materialise

Simplified Overview of Our Solutions



We offer an extensive platform of solutions for Metal AM. For more information about the products, visit materialise.com/en/software/oem-solutions

Why Partner with Materialise?

Excellent Consultancy, Training and Services

We are eager to support you in every step of the process. Our experts can help you go from machine design to machine building, process validation and finally the market.

"The trainer of Materialise's Metal AM Academy is very experienced and the course was well-structured. The AM design and stress reduction techniques taught in the course are highly useful and are being applied in my work involving the fabrication of metal AM parts."

Mr. Choong Yue Hao, Development Engineer, Advanced Remanufacturing and Technology Centre (ARTC).

Control Your Metal Production

The Materialise Magics 3D Print Suite is a flexible software and hardware platform that allows you to control your Metal AM production and speed up the development of new machines. This is a complete end-to-end platform that provides you with the freedom to operate, both for R&D and manufacturing purposes.

"Materialise gave us an insight into the world of additive production. The platform is an excellent tool for AM production, since many different parameters can be accessed here. This helped us to proceed properly in the beginning and since we can store all data, all parameters can be tracked later."

Mr. Heiko Frydryszik, founder of FMFS.

Access an Open Platform

The different products and solutions of Materialise are integrated with each other, creating a unique software platform for 3D Printing. This platform connects to every type of 3D printing machine, well as to different environments (prototyping, manufacturing) and systems (CAD, AM). Through the platform, you can access 3D printable content from various sources and a wide portfolio of 3D printing technology.

"Additive manufacturing is one of the critical components of the Digital Enterprise transformation taking place right now in the global manufacturing industry. By partnering with AM leaders like Materialise, we are providing the digitalization tools that will help enable this transformation."

Mr. Zvi Feuer, Senior Vice President, Manufacturing Engineering Software, Siemens PLM Software.

Trusted Partner of Metal Machine Manufacturers

Our software is thoroughly tested at our 3D print factory, which is certified for industrial and medical Metal 3D Printing. The metal competence center in Bremen is our fourth industrial production unit in Europe and uses aluminum, titanium and stainless steel.

Throughout our extensive partnership program, we commit to in-depth and long-term collaborations with all major metal machine manufacturers present in the market.



Powered by Materialise

The 'Powered by Materialise' program unites leaders of the 3D printing industry into Materialise's extensive eco-system of partners, and allows them to exchange their knowledge, share ideas and bring the 3D printing experience of the AM community to the next level.

Partners can thrive on our global presence and in-depth Additive Manufacturing experience. Whether expertise is needed in data preparation, at the control end field or rather in finding the best channel to reach your customers, we are always there to meet your expectations.

For more information, contact us at: software@materialise.be
or visit our website materialise.com/software

