

EFFECTIVE PRODUCTION TECHNOLOGY

BY MOULD3 TECHNOLOGIES AND RESEARCH



WHAT IS MOULD3?

MOULD3's hybrid solution combines the benefits of precision metal 3D printing with surface optimisation and highspeed cutting for precise, swift, cost-effective, and reliable tool manufacturing.

This technology was exclusively used for ten years by the Japanese government, who protected it for use in their flagship projects. After being proven in practice, the technology was introduced to the international market via Matsuura, who made it available to B2B partners. These innovative machines are sold through controlled distributors in 38 countries around the world.

MOULD3 serves a unique role alongside Matsuura, not only as a partner but as a 'technological development centre', only the second in Europe, thanks to our team of highly-skilled specialists. This means that our team is taking this market-leading technology and developing it even further, and these advancements will only be available through MOULD3.

BENEFITS OF MOULD3'S HYBRID TECHNOLOGY

MOULD3's technology provides advantages that are ideal for the manufacturing of components and tools that require complicated geometrical shapings or the design of internal structures (e.g. cooling ducts). In addition, it provides a perfect answer to the technological challenges of small-scale or prototype production. It also supplies professional support to solve issues that come with short production times or customised development.

COOPERATION WITH THE PARTNERS OF MOULD3

MOULD3's work represents a robust value-added service, built on a solid foundation, with a team of highly qualified professionals with 19 years of experience. Additionally, the utmost quality is secured by the application of modern technologies and the selection of external resources through a strict quality control system.

As MOULD3 is also a technological research centre, we provide excellent professional support to our partners who receive up-to-date information and expert advice about the developments and future business solutions implemented by the research centre.

KEY TECHNICAL SPECIFICATIONS

- Combines the benefits of additive metal printing technology with high-speed precision cutting
- Tool inserts made on a single device using a single technology
- In the case of intricate tool inserts, designers' manufacturing freedom is greatly increased, thanks to the possibility of simplified moulding inserts
- Up to 70% time savings and 30% cost savings compared to conventional manufacturing processes
- 250x250x300 mm working space
- High-speed laser sintering
- 45,000 rpm spindle
- 0.0025 mm positioning accuracy
- 0.001 repeat accuracy
- General machining accuracy guaranteed by the manufacturer is 0.005 mm