

iFusionMF

A background image of a modern office interior with large windows, white walls, and recessed ceiling lights. The text is overlaid on this image.

WORKHORSE
OF THE HIGHEST
PEDIGREE

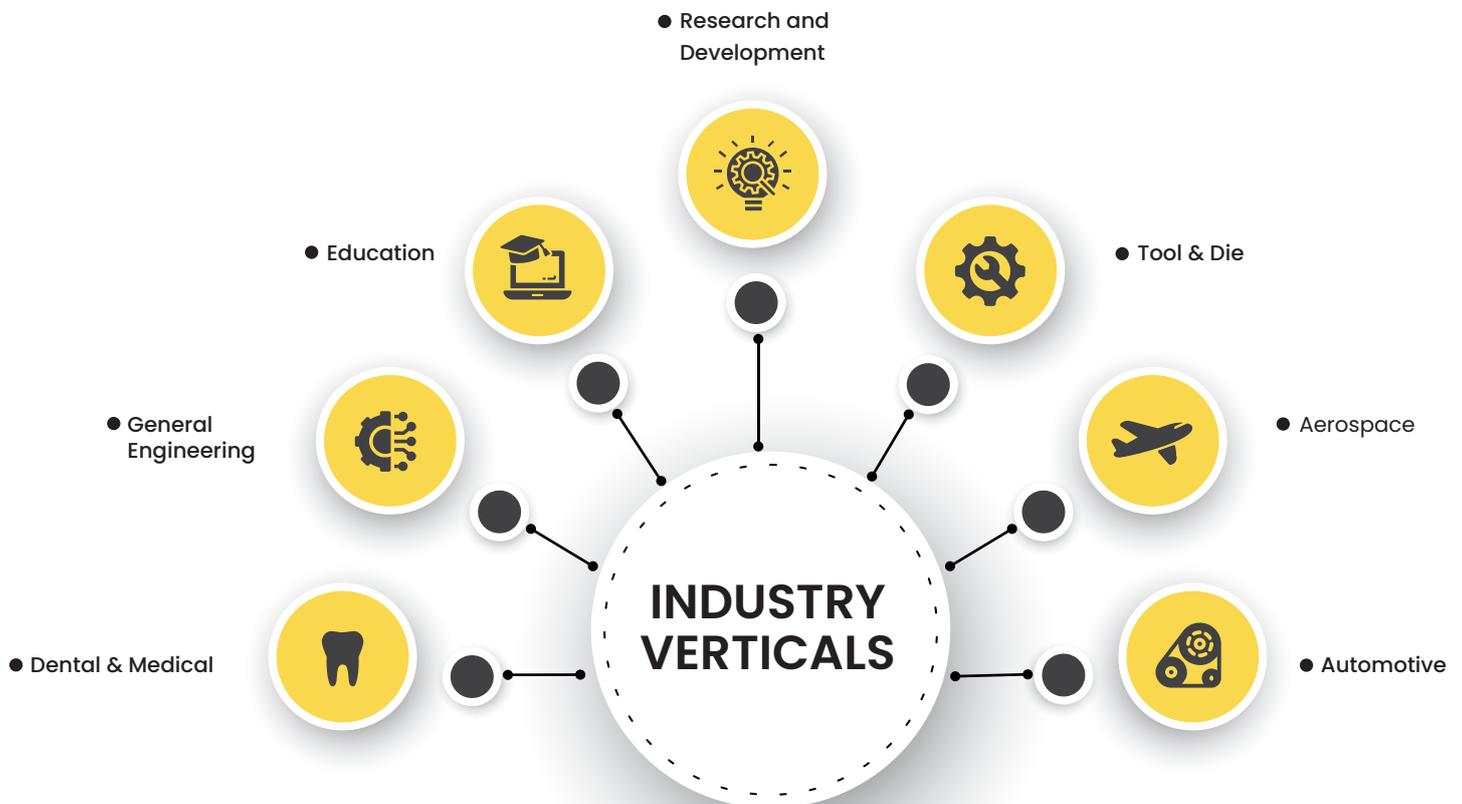
WORLD'S FINEST LPBF METAL 3D PRINTER

DMG MORI

Additive Manufacturing provides solutions for diverse requirements and field functions making it an ideal fit for various industry verticals.

Embracing innovation helps industries keep pace with the competitive and dynamic business environment. Rising costs, excess material waste, longer production lead times, and unreliable part quality are a few of the many issues halting the growth of the industries. Additive Manufacturing addresses these key challenges and provides an alternative sustainable way of manufacturing.

Intech's iFusion MF, an advanced Metal 3D Printing system, enables in the quick adoption of the AM ecosystem. It is an indigenously designed and developed one-of-a-kind Mid Format Laser Powder Bed Fusion (LPBF) Metal 3D Printer. Imbued with gold standard IPG Lasers, ScanLab Optics, and Beckhoff Automation, iFusion MF enables OEMs to seamlessly transition into Additive Manufacturing.



iFusion MF. Unlock the Potential of your Business.



SOFTWARE THAT COMPLEMENTS YOUR EVERY MOVE

AMBuilder

iFusion MF is equipped with AMBuilder, Intech's very own build preparation software. It's an intuitive one-of-its-kind software packed with intelligent features such as Data Preparation, Support Generation, Distortion Simulation, and Build Processing. The cost-effective and versatile AMBuilder aids in the end-to-end build preparation process while simultaneously maximizing the machine's productivity.

AMOptoMet

With our own parameter optimization software, AMOptoMet, creates new parameter for new alloys almost instantaneously, cutting down on your wait-time from weeks and months, thus truly delivering unparalleled throughput.

Modules such as “MaxPower” and “MaxBuild” can increase the productivity of your system up to **50-80%**

Faster Production. Innumerable Possibilities.

Highest-In-Class Laser Power

The iFusion MF series of printers come in single or multi laser configurations with full-field scanning. Each Yb-Fibre laser is 500W or higher which allows you to build with a higher layer thickness.

More Parts-per-Build

More parts can be nested and stacked during a single build, thereby efficiently increasing the productivity of the print process.

Automation of Processes

For increased operational efficiency, powder handling, powder sieving, and part removal are fully automated in iFusion MF.

Largest-In-Class Build Size

Build Volume of 325mm x 325mm x 420mm, iFusion MF has one of the largest-in-class build envelopes. This allows for printing of a wide range of small to mid-size fully functional components.

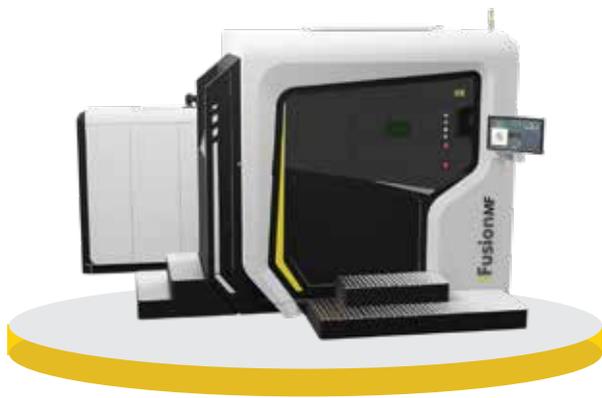
Optimized Cost-per-Part (CPP)

The iFusion MF is designed to achieve competitive Machine Hour Rate (MHR) with optimized cost-per-part (CPP), to match conventional manufacturing processes.

Easy to Print with a wide range of Materials

iFusion MF enables the production of highly precise and high-quality printed parts with a wide range of materials and metal alloy powders such as Aluminium, Titanium, Copper, Inconel, Maraging Steel, Stainless Steel and more.

Features That Make It Unique



1.5X times the build power of comparable Metal 3D Printers with no additional cost.



Restarting the next build with minimal interruption due to removable build cylinder.



Ease of Material change due to removable powder tank. Storage and permanent filter options are available.



Dual compartments reduce flooding time due to the inert gas retainment.



OEM branded sieving under inert conditions is provided as part of the iFusion MF ecosystem.

SPECIFICATIONS

Parameters	Description
Model	iFusion MF
Technology	L-PBF (Laser-Powder Bed Fusion)
Build Volume (mm)	325mm x 325mm x 420mm (incl. base plate)
Laser Type	Yb - Fibre Laser
Laser Power	500W
Build Platform Heating	200° C
Scan Speed	7 m/s max
Focus Diameter	Min. 80µm
Software	AMBuilder (Integrated) - Build Processing Software AMOptoMet (Available for Purchase) - Parameter Optimization Software for Existing and New Alloys
Materials	Aluminium, Cobalt Chrome, Stainless Steel, Maraging Steel, Inconel Alloys, and Titanium

Who we are:

We at Intech have been at the forefront of innovation that can transform the manufacturing industry. Our expertise in Hardware, Software and Design(DfAM) makes us one of the very few all-encompassing Additive Manufacturing solutions companies in the world. As a company of many firsts, we are pioneers in offering solutions that empower customers to adopt additive manufacturing technologies efficiently and effectively. Driven by the philosophy of 'first time right', our dedicated team of engineers, out-of-the-box thinkers, and problem-solvers are in a constant quest to revolutionize the manufacturing processes that addresses the business interests of our customers. Our mission is to enable faster adoption by keeping innovation alive and enabling digital transformation through additive technology in a sustainable way.



Email : ifusion@intechadditive.com

Visit : www.intechadditive.com

Hardware | Software | Design(DfAM) | Academy
