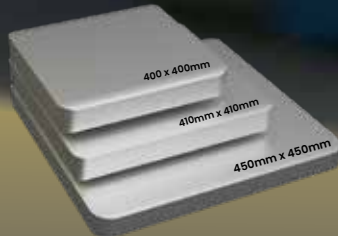


**LARGE BUILD. LARGER POSSIBILITIES.**



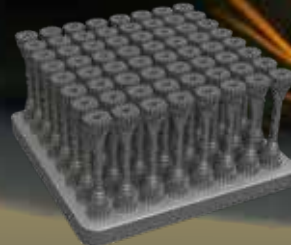
**iFusion 450**

# EXCEPTIONAL BUILD SIZE. HIGHER PRODUCTIVITY.



## MORE BUILD VOLUME

With the segment's largest build volume, discover the advantage of printing a wide range of parts in various sizes.



## MAXIMUM PRODUCTIVITY

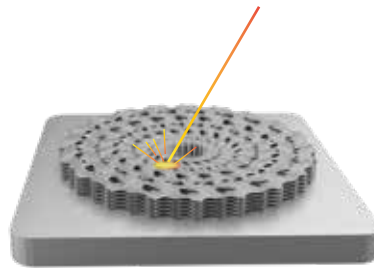
iFusion450's largest-in-class build size and highest-in-class laser power enables the printing of mid to large-sized complex parts at a faster rate to maximize the productivity of every build.



## MORE TIME, COST & MATERIAL SAVINGS

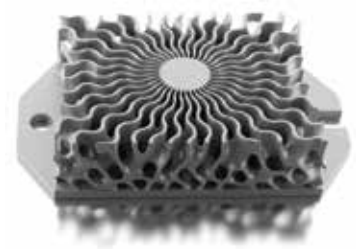
The removable build cylinder saves considerable change over time between builds.

The removable powder tank enables quicker and easier material change, avoid material wastage and reduce overheads.



## HIGHER LAYER THICKNESS

With laser power of 500W (option to extend to 1000W), iFusion450 delivers greater productivity with higher layer thickness.



## EASY TO PRINT WITH A WIDE RANGE OF MATERIALS

Designed to print high precision and high-quality parts with a wide range of materials such as AlSi10Mg, CoCr28Mo6, IN718, IN625, Ti6Al4V, Ti6Al4V ELI, 17-4PH, SS316L, 18Ni300.

# MORE POSSIBILITIES



PERMANENT/REPLACEABLE  
FILTRATION OPTION



SAFETY GLOVE DOOR



DUAL COMPARTMENT WITH  
INERT GAS RETAINMENT TO  
REDUCE FLOODING TIME

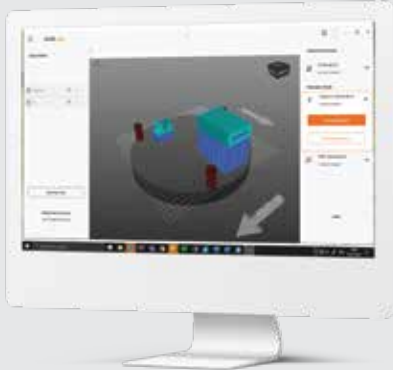


BIDIRECTIONAL RECOATING  
SYSTEM

Specifications	iFusion450
Build Volume(XYZ)	450mm x 450mm x 450mm (max. part height)
Layer Thickness	20 – 120µm
Focus Diameter	Min 75µm
Build Rate	20cm <sup>3</sup> /hr and above
No of Lasers	1 / 2 / 4
Laser Type	Fiber Laser
Laser Power	500W / 700W / 1000W
Optical Configuration	3 Axis
Scan Speed (Max)	7m/s
Materials	AlSi10Mg, CoCr28Mo6, IN718, IN625, Ti6Al4V Ti6Al4V ELI, 17-4PH, SS316L, 18Ni300

# SOFTWARE THAT HELPS YOU DO MORE

## AMBuilder



AMBuilder, the in-built, inimitable software is packed with intelligent features such as data preparation, distortion simulation and build processing. This versatile, intuitive software delivers a short learning curve in build preparation process, speeds up productivity and maximise the machine capabilities.

## AMOptoMet



Our parameter optimization software, AMOptoMet is unparalleled in many ways. It is built with the capabilities to improve productivity by (50-80%), achieve better Surface Finish (2-3 Ra) and reduce Post-processing time and cost significantly. It helps create parameter for new alloys almost instantaneously, cutting down on the wait-time considerably to deliver exceptional throughput.


## 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. Our mission is to enable faster adoption by keeping innovation alive and enabling digital transformation through additive technology in a sustainable way.

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