



Additec μ Printer

Desktop Metal 3D-Printer



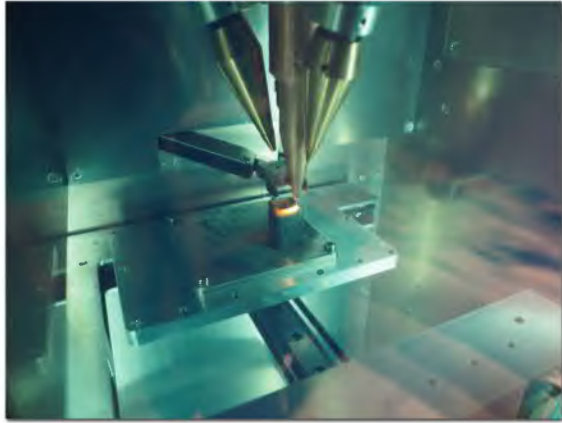
The Additec μ Printer is a highly compact 3D Printer capable of producing complex metallic components using our Laser Wire Deposition Process.

Our Patented Deposition Head Processes Wire and Powder Feedstock using three or five diode lasers (Total Power 600-1000W). Thanks to our Precise Push-Pull wire drive, integrated closed loop process control and automatic layer height measurement our printer achieves great process stability.

Through Perfect coordination between the wire drive and the XY-Axis we reach very high print quality. Using conventional MIG Filler wires as feedstock lowers material costs to near commodity prices, while being significantly safer to handle than powders.

To make the μ Printer a more attractive option for Researchers and material scientists, all Process parameters are user accessible through g-code. Further, we also provide a powerful macro utility for easy adjustment of specific deposition segments, making it a more versatile machine.

The μ Printer is based on our patented Laser Wire Deposition process, that we launched in 2016. Previously we only offered our technology as a retrofit package that could be used to turn existing CNC platforms into metal 3D printers. However due to high demand, we have decided to start offering complete systems, starting with the Printer. By building the complete system in-house we are able to significantly lower the barrier of entry to Laser Metal Deposition based 3D



In Addition to use as 3D Printer, the μ Printer can also be used for cladding and repair of small to medium sized components.

Features:

- High Process reliability through closed loop control.
- Low shield gas consumption through compact inert chamber.
- Good visibility through large laser window.
- Clean Process.
- Low cost materials.
- Compact dimensions.
- Integrated camera, and locally hosted web-interface.
- High efficiency through modern Direct diode lasers.
- Single phase power input (110-240v).

We offer the complete Additec μ Printer including process chiller, software for toolpath generation and 600W Laser power for 80.000 Euros (excluding vat. and shipping).



Additec μ Printer



Technical Data

Size:	390 mm (W) x 390 mm (D) x 1100 mm (H)
Weight:	appx. 95 kg (depending on options)
Print-Volume:	160 mm (X) x 120 mm (Y) x 450mm (Z)
Laser:	600 W Diode Laser (standard) 1000 W Diode Laser (optional)
Wire Feedstock:	0.6-1 mm welding wire on 200 mm or 300 mm spool (0.8 mm recommended)
Powder Feedstock:	45-90 μ m powder (powder feeder optional)
Electrical Supply:	110-240 V 16 A

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