

M-Flex[®]



Idea to Functional Printed Part in Record Time

The M-Flex[®] 3D printer contains everything you need to get started with metal printing, offering flexibility from prototype to production. This highly accurate system provides greater design freedom and the ability to produce complex geometries without need for tooling.



Flexible & complete solution

- Package includes printer, recycling equipment, printing materials, curing oven and furnace
- Comprehensive hands-on training program

High productivity

- Fastest metal printer in its class
- User-friendly touchscreen interface
- Easy unloading
- Flexible job box can print one prototype or short runs of multiple and/or custom parts
- Changes can be made quickly

Industry-grade materials

- Print in stainless steel, iron, bronze, tungsten, Alloy IN 625, and glass. Optionally configure for testing with other materials.
- No support structures
- Functional parts with superior wear characteristics

M-Flex[™] consumables^{1,2}

- ExOne[®] Binder (Aqueous, Solvent)
- ExOne[®] Stainless Steel Powder (S3, S4)
- ExOne[®] Bronze Metal Powder
- ExOne[®] Thermal Support Powder
- ExOne[®] Cleaner



TECHNICAL SPECIFICATIONS

Process cell including job box and transfer cart

Build volume	l x w x h 15.7 x 9.8 x 9.8 in. (400 x 250 x 250 mm)
Build speed	30–60 seconds/layer ³
Layer thickness	Variable, minimum 0.004 in. (100.0 μm) ³
Print resolution	X/Y/Z 0.003 / 0.002/ 0.004 in. ^{2,3} (63.5 μm/ 60.0 μm/ Z 100.0 μm ^{2,3})
External dimensions	l x w x h 66 x 55 x 73 in. (1675 x 1400 x 1855 mm)
Weight	2,250 lbs (1020 kg)
Electrical requirements	208V–240V / 3 phases
Data interface	STL, CLI, SLC
Operator interface	Multi-touch display

PROPRIETARY INFORMATION

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¹ Range of materials and particle sizes available – please contact your sales rep. ²Typical. ³Material dependent.

With decades of manufacturing experience and significant investment in research and product development, ExOne has pioneered the evolution of nontraditional manufacturing. This investment has yielded a new generation of rapid production technology in the field of additive manufacturing. ExOne is the optimal partner for any industrial manufacturer who is transitioning their manufacturing business to the digital age.