3D PRINTING & ADDITIVE MANUFACTURING

SPECIALIST PRINTING SYSTEMS

FOR USE WITH:

- THERMOPLASTICS
- RESINS
- CARBON FIBRE
- METALS
- PRINTED ELECTRONICS

BUILT FOR:

- INDUSTRY
- RESEARCH
- EDUCATION

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formlabs RAISE3D Markforged

THERMOPLASTICS & RESINS

Formlabs, Raise 3D & Fusion3

With a variety of FDM and SLA printers from leading brands such as Formlabs, Raise 3D and Fusion3, Emona offers the technology to suit your applications covering:

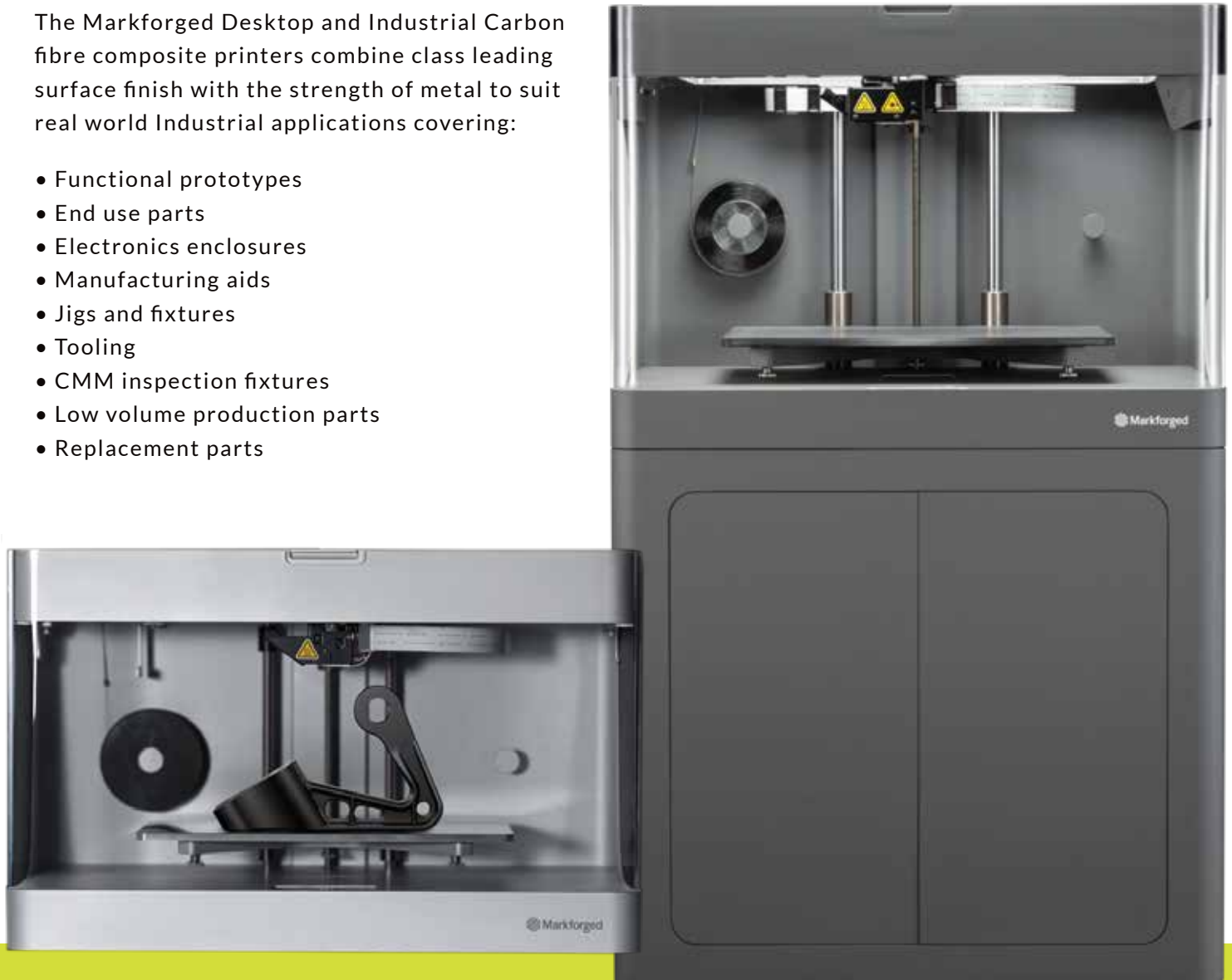
- Functional prototypes
- Electronics enclosures
- Manufacturing aids
- Jigs and fixtures
- Low volume production parts
- Art and Jewellery
- Lightweight concept models
- Architectural models
- Urethane casting patterns

CARBON FIBRE

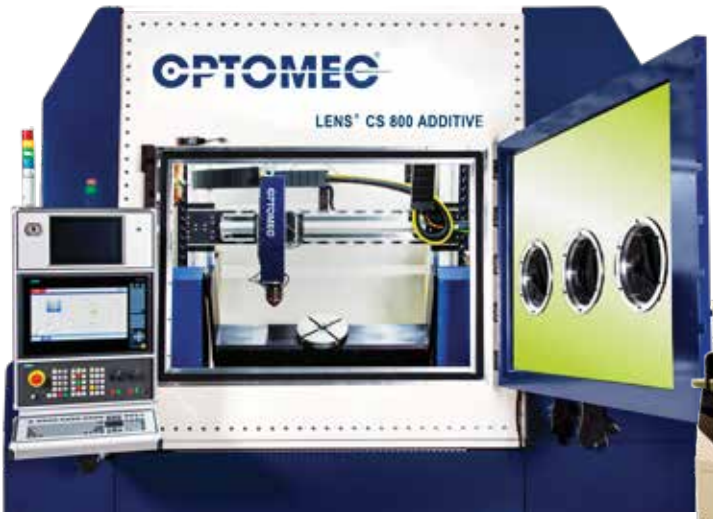
Markforged Desktop & Industrial

The Markforged Desktop and Industrial Carbon fibre composite printers combine class leading surface finish with the strength of metal to suit real world Industrial applications covering:

- Functional prototypes
- End use parts
- Electronics enclosures
- Manufacturing aids
- Jigs and fixtures
- Tooling
- CMM inspection fixtures
- Low volume production parts
- Replacement parts



OPTOMEC Markforged



METALS

Optomec LENS

The Optomec LENS family of 3D metal printers can be used throughout the product life cycle to cost-effectively repair, rework and manufacture high-performance metal components in materials such as titanium, stainless steel, and super alloys.

The Direct Energy Deposition (DED) process can be used for:

- Component Repair
- Functional prototyping
- Hybrid Manufacturing (Additive and Subtractive)
- Surface coating
- Material Discovery
- Blisk Repair

Markforged Metal X

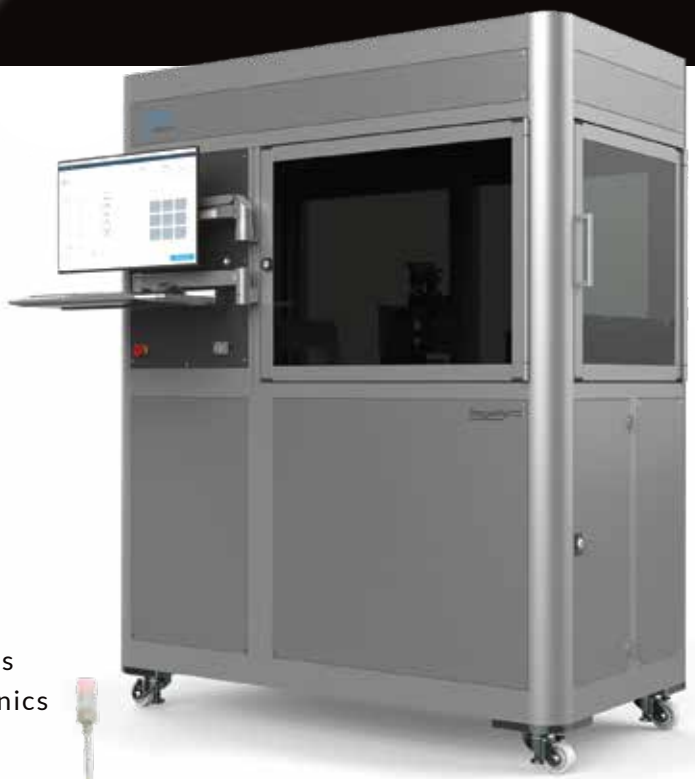
The Markforged Metal X has eliminated the safety risks associated with traditional metal 3D printing by printing metal powder bound in a plastic matrix, while also enabling new features like closed-cell infill for reduced part weight and cost.

Atomic Diffusion Additive Manufacturing (ADAM) is an FDM process at the intersection of 3D printing and metal injection moulding, and provides solutions for:

- Initial Prototyping
- Functional prototyping
- Functional testing
- End use parts
- Small batch production parts
- Tool Development
- Production Assembly
- Replacement parts

VOLTERA NANODIMENSION Electrifying Additive Manufacturing® OPTOMEC

PRINTED ELECTRONICS



Nano Dimension LDM

The Nano Dimension LDM empowers companies to securely control entire development cycles through in-house additive manufacturing of PCBs and non-planar electronics with speed and precision, while reducing R&D costs.

The LDM is an inkjet based system with applications including:

- Multi layer PCB prototyping
- Printed Antennas
- Moulded device interconnects
- Printed Capacitors
- Electromagnets
- Printed inductors
- Non-Planer circuits
- Embedded electronics
- Sensors

Optomec Aerosol Jet

Optomec's Aerosol Jet technology is a non-contact material deposition process.

The process uses aerodynamic focusing, to precisely and accurately deposit electronic Inks onto substrates. Printed features range from 10 microns to millimetres, with a huge variety of inks capable of being printed onto Planar and Non-Planar surfaces.

Voltera V-One

Voltera V-One enables you to print, drill vias and through holes, dispense solder and reflow double sided circuit boards on your desktop. Load your Gerber files and watch the dispenser lay down a silver-based conductive ink. Prints on FR4, glass, ceramics, Kapton and flexible substrates.