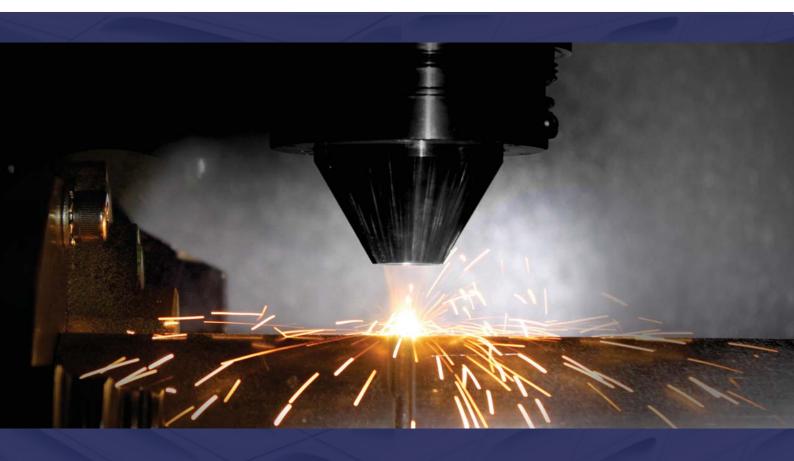


## FORMALLOY

## X-Series & L-Series

**System Specifications** 











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## X & L-Series

FORMALLOY's award winning laser metal deposition systems features include closed-loop control, variablewavelength lasers, and Formalloy PF and ADF powder feeders for gradient/bimetallic structures.

FORMALLOY's systems boast improved better powder efficiency, quality, and the ability to print with the most comprehensive list of metal alloys on the market. Each machine comes standard with the Formallov AX metal deposition head and a customizable build volume with up to 5-axes of motion.

FORMALLOY's systems can be configured with Dynamic Layer Selection technology to monitor build quality and accuracy in real-time, auto-set layer thickness and auto-correct errors to achieve a part that is free of dimensional defects. The Formalloy AX head has proven high powder efficiency and built in quick-release features for ease of maintenance and component swaps. Formalloy designs all components and systems to utilize open standards for powder supply, allowing the user to provide their own powders if desired. This provides a cost-effective solution for 3D metal part production, repair and cladding to a diverse set of industries.

| Specifications                        | X & L-Series  |
|---------------------------------------|---|
| Build Volume                          | 200x200x200mm 500x500x500mm 1x1x1m<br>Customizable also available |
| Deposition Rates                      | Up to 7 kg/hr   |
| Resolution                            | 0.5-8 mm  |
| # of Axes                             | Up to 5   |
| # of Formalloy AX Heads               | Up to 2   |
| Formalloy AX Nozzle Type              | Coaxial, 4-Stream   |
| # of Formalloy Feeders                | Up to 4   |
| # of Lasers                           | Up to 2   |
| Laser Type                            | IR (970-1070nm), Blue (450 nm)                                    |
| Laser Power                           | Up to 8 kW  |
| Powder Efficiency                     | Up to 95%   |
| Machine Controller                    | FormNC  |
| Dust Removal/Extraction               | < 5 micron filtration   |
| Inert Gas Build Chamber<br>(L-Series) | < 10 ppm oxygen content   |
| Build Plate Heating                   | Optional  |
| Dynamic Layer Selection               | Optional  |

