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ADDere SYSTEM I: Laser Wire Additive Manufacturing System

The ADDere SYSTEM I laser wire additive manufacturing system was built by MWES to demonstrate a build platform for development and demonstration of the laser wire additive manufacturing process.

The ADDere metal 3D printing system consists of a high accuracy 6-axis industrial robot combined with a 2 axis coordinated motion work piece positioner. This machine structure provides a highly flexible platform for the process development and built of small parts.



The ADDere laser wire additive system is capable of building components from a number of common or specialty metal-based materials like stainless steel or Inconel. An optional argon environment extends to capabilities of this system to build parts out of titanium. The 4 Kw laser combined with a 500 amp hotwire welding package provides plentiful power for depositing material at a large scale.

The real time sensor system is key to the system's dimensional performance and quality of metal disposition. With closed loop sensing and control the ADDere system can offer some of the most consistent builds - and with excellent metallurgical qualities.

Our system is built with shop floor space efficiency in mind. All of the laser wire additive system's components are built on a portable frame allowing the system to be easily relocated. With the lower power requirements of 100 KVA, also helps the system to be easily set-up in different locations.

A Class 1 laser enclosure with observation windows and an access door complete the safety enclosure of this system.



SYSTEM 1 Specifications:

Built part size (LxWxH): 1.0x1.0x 1.0m / 40x 40x40in Built part weight (Max) 400 kg / 880 lbs. Laser power: 4-12kW Deposition rate: up to 10 lbs./h Sensor system: real time, closed loop Software package: ADDere by MWES

If your business is looking at large scale additive 3D metal printing solutions, please contact us today! The ADDere Additive Manufacturing process can be the solution to many of your manufacturing needs.

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