Wire-Laser Metal 3D Printer
AZ600

Making Innovation Common Sense
Manufacturing using Wire-Laser DED*

High-speed & High-quality Additive Manufacturing using Wire-Laser DED*

Directed energy deposition (DED) process, in which the metal wire is melted with a laser beam and deposited making material directly to build a part, has made high-speed additive manufacturing of high-quality 3D structures possible. It is also possible to add to parts manufactured using other processes, making it effective for build-up welding for repairing as well. Welding wires that are easily available and possible to add to parts manufactured using other process, making it effective for high-speed additive manufacturing of high-quality 3D structures possible. It is also possible to add to parts manufactured using other processes, making it effective for build-up welding for repairing as well. Welding wires that are easily available and commonly widely used can be utilized.

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High-speed

Using DED with laser beam suited to high-speed control as the heat source and accurately controlling the heat energy according to the build conditions makes high-speed additive manufacturing possible.

High-efficiency

By using commercially available welding wire as the feedstock, a low-spatter process is realized, and the inside of the machine is kept clean. It is more efficient, human and environmentally friendly process than the powder feedstock process.

High-quality

The combination of wire and laser makes highly precise and low porosity build parts. Adding our proprietary precise heat control allows for high-quality additive manufacturing.

Challenge your creativity

Additive manufacturing technology that brings together the comprehensive strengths of Mitsubishi Electric will change metal processing.
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>AZ600-F20</th>
<th>AZ600-F40</th>
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</thead>
<tbody>
<tr>
<td>Process category</td>
<td>Directed energy deposition (DED)</td>
<td></td>
</tr>
<tr>
<td>Stroke (X x Y x Z) [mm(in)]</td>
<td>600(23.6) x 600(23.6) x 600(23.6)</td>
<td></td>
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<tr>
<td>Maximum workpiece size [mm(in)]</td>
<td>Ø500(19.7) x 500(19.7)</td>
<td></td>
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<tr>
<td>Maximum load capacity [kg(lb)]</td>
<td>500(1100)</td>
<td></td>
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<tr>
<td>Laser output power [kW]</td>
<td>2</td>
<td>4</td>
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<tr>
<td>Main standard equipment</td>
<td>2-axis rotary table BC axis, height sensor, shielding gas NC control, process monitoring camera, automatic slide cover (front door)</td>
<td></td>
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<tr>
<td>Main options</td>
<td>2-axis rotary table AC axis, automatic slide cover (side, top)</td>
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</tbody>
</table>

*Fume extraction system not included among standard accessories.

Outline drawing/layout

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NAGOYA WORKS: 1-14, YADA-MINAMI, 5-CHOME, HIGASHI-KU, NAGOYA 461-8670, JAPAN

* Not all the models are supported in all the countries and regions.
* The machine specifications differ according to the countries and regions. Please check with your dealer.
* The processing data provided in this brochure is for reference only.