2-Dimensional Fiber Laser Processing Systems
GX-F Series

GX-F
GLOBAL IMPACT OF MITSUBISHI ELECTRIC

Changes for the Better

We bring together the best minds to create the best technologies. At Mitsubishi Electric, we understand that technology is the driving force of change in our lives. By bringing greater comfort to daily life, maximizing the efficiency of businesses and keeping things running across society, we integrate technology and innovation to bring changes for the better.

Mitsubishi Electric is involved in many areas including the following:

Energy and Electric Systems
A wide range of power and electrical products from generators to large-scale displays.

Electronic Devices
A wide portfolio of cutting-edge semiconductor devices for systems and products.

Home Appliance
Dependable consumer products like air conditioners and home entertainment systems.

Information and Communication Systems
Commercial and consumer-centric equipment, products and systems.

Industrial Automation Systems
Maximizing productivity and efficiency with cutting-edge automation technology.

As the world’s leading general electric device manufacturer, Mitsubishi Electric Corporation is engaged in a broad range of businesses from home electronics to space equipment. We are globally operating in the following five business domains: Energy and Electric Systems, Industrial Automation Systems, Information and Communication Systems, Electronic Devices and Home Appliances. For over ninety years since we started manufacturing the general-purpose motors, Mitsubishi Electric FA systems business sector has been supporting the manufacturing of not only Japan, China and other Asian countries but also the countries of the world. Through the years of our accumulation and advancement in the FA and drive system controls, mechatronics and production technologies, we are expanding the diversity of our product lineup one after another ranging from the controllers, drive units and mechatronics products to power distribution control devices. In addition to such products and units of the factory automation, we are quick in providing solutions such as “e-F@ctory” and “iQ Platform” to innovate the manufacturing scene. From now on also, Mitsubishi Electric as the comprehensive FA supplier is delivering the products that meet our customer needs throughout the world.

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Introducing the highly reliable AI-powered "Non-stop Processing System" All-Mitsubishi Fiber Laser

Cutting-edge performance achieved with in-house production of key components

Mitsubishi Fiber Laser Oscillator

Nozzle Technology
- AI Nozzle Monitor
- Nozzle Changer

Newest Control Equipment
- D-CUBES
- MEL’S AR

AI Assistance
- AGR-eco

Next Level Automation Solutions
- Automatic Sorting System
- Automation System

Processing head
- High-Peak Piercing
- Zoom Head

Processing head
Continuous Processing & Reliability

The processing state is determined from the sounds and light during processing with AI, using our AI technology “Maisart®”. In pursuit of a “non-stop processing system”, with the world’s first e-laser processing system built-in and functionality that automatically adjusts the laser processing conditions with AI.

* As of April 2019, internal research

When nozzles are replaced with the nozzle changer, the nozzle condition is determined from images using AI. If the processing state is determined by the AI assistance, the nozzle condition is determined with AI using this function, and the nozzle is automatically replaced with the nozzle changer if necessary.

Can be equipped with up to 21 nozzles.
Nozzles that are determined to be defective by the nozzle monitor are automatically replaced with new ones to support continuous processing for a long period of time. The ideal nozzle for processing can be selected from various types of nozzles, with more options than have conventionally been available.

Mitsubishi Fiber Laser Oscillator
Achieves both high reliability and high productivity with our new fiber laser oscillator built-in. Minimizes the risk of machine breakdowns.
The oscillator adapts to high-peak pulse conditions and optimally controls the beam and focus position, significantly reducing the piercing time. The piercing time for 25mm of mild steel has been reduced to 0.8 seconds, greatly improving the productivity for thick plates.

The "Zoom Head" processing head manufactured in-house utilizes Mitsubishi Electric’s proprietary optical system technology and provides optimal control of the beam according to the material and plate thickness. Provides reliable processing for everything from thin to thick plates and supports stable production at the processing site.

Also, the range of selectable processing conditions has been expanded, making it unnecessary to exchange the processing lens according to the plate thickness and material, shortening the setup time.

**AGR-eco (Advanced Gas Reduction)**

Our proprietary gas flow control reduces nitrogen gas consumption by up to 90%.*1 The processing speed and cutting surface quality have been improved for everything from thin to thick plates*, providing unprecedented added value.

*1: Compared to our CO₂ laser
*2: Applicable plate thickness; stainless steel cutting: t1 to t9mm

**Gas consumption per unit time (Mild steel: 9mm)**

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Fiber 8kW</th>
<th>AGR 8kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>20</td>
<td>40</td>
</tr>
</tbody>
</table>

**Gas consumption per unit time (Stainless steel: 11.5mm)**

<table>
<thead>
<tr>
<th>Conditions</th>
<th>CO₂ 6kW</th>
<th>Fiber 8kW</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>20</td>
<td>40</td>
</tr>
</tbody>
</table>

* For 8kW oscillator

The "Zoom Head" processing head manufactured in-house utilizes Mitsubishi Electric’s proprietary optical system technology and provides optimal control of the beam according to the material and plate thickness. Provides reliable processing for everything from thin to thick plates and supports stable production at the processing site.

Also, the range of selectable processing conditions has been expanded, making it unnecessary to exchange the processing lens according to the plate thickness and material, shortening the setup time.

**New Platform**

A dedicated platform developed to take full advantage of the features of the fiber laser. The new platform uses Mitsubishi key parts achieve the fastest processing ever in Mitsubishi Electric’s history, enabling both unprecedented productivity and precision.
Operability & Usability

**Simple Nesting**
MEL’S AR enables simple, intuitive nesting of off-cut materials and supports the sudden addition of sheets to be processed.

**Intuitive positioning with MEL’S AR**
MEL’S AR (Mitsubishi Electric’s original AR technology) displays overhead images of the system at all positions without distortion, allowing the positional relationship between the material and processing head to be intuitively recognized. The program shape can be easily placed with a drag operation, significantly reducing the setup time for interrupt processing of off-cut materials.

**Newest Control Equipment  D-CUBES**
Intuitive operation similar to a smartphone with a large, 19-inch screen
Intuitive operation with multi-touch panel
Easily swipe to the required screen.
Graphics can be easily scaled.

**Customizable icons**
Users can freely customize the icons on the screen. Delete unnecessary information and include only the necessary information.

**Easily move the processing head with screen operations**
Simply touch the destination on the screen and press the movement start switch to move the processing head to the specified position.

**Left-over Material Cutting Function**
Specify an arbitrary point on the screen, and a route is generated. Then, press the start button to automatically cut the left-over material.

**Visible Processing Progress**
Check the elapsed processing time with control equipment, signal towers.
Mild steel thick plate
- Achieves a piercing time of 0.8 seconds with high-output oscillator.
- Significantly improves productivity.
- Zoom head automatically changes the beam diameter and beam mode, enabling high-quality processing.
- Achieves φ3mm small-hole processing with an oscillator manufactured in-house and the optimal control technology.

Material: SS400
Thickness: t25mm
Oscillator Output: 8kW

Mild steel medium to thick plate
- Fast processing of mild steel medium to thick plates with the high-output oscillator.
- Greatly reduces the cost with AGR-eco.
- With our proprietary gas flow control and zoom head, the beam diameter and beam mode are changed automatically, improving the cutting surface quality.

Material: SS400
Thickness: t9mm
Oscillator Output: 8kW

Stainless steel thin plate
- Non-stop fast processing of thin plates with F-CUT® technology.
- Greatly reduces the cost with AGR-eco.
- Fast and accurate processing with the new platform.

Material: SUS304
Thickness: t1mm
Oscillator Output: 4kW

Pure copper thick plate
- Processes highly reflective materials with anti-reflective technology.
- Anti-reflective material is not required, eliminating the post-processing.

Material: C1100
Thickness: t12mm
Oscillator Output: 8kW

Stainless steel thick plate
- Zoom head automatically changes the beam diameter and beam mode, enabling high-quality processing.
- Greatly reduces the cost by AGR-eco.

Material: SUS304
Thickness: t25mm
Oscillator Output: 6kW
**Main Functions/Options List**

- **Zoom Head**: Optimally controls the laser according to the material and thickness, supporting continuous processing.
- **High-Peak Piercing**: Shortens the piercing time when processing mild steel of 12mm or thicker.
- **Magnetic Damage Reduction Function**: Shortens recovery time in cases of processing head collision.
- **AI Assurance**: Automatically adjusts the processing conditions if defects are found, supporting continuous processing.
- **AI Nozzle Monitor**: Checks the state of the nozzles and AI determines the quality, supporting continuous processing.
- **Nozzle Changer (9 pcs.)**: Replaces the nozzle automatically.
- **Nozzle Changer (21 pcs.)**: Reduces the setup time, supporting continuous processing.
- **AGR-eco**: Gas flow control reduces consumption of assist gas.
- **MIL’S AR**: All technology enables intuitive positioning and reduces setup time.
- **Fine Piercing**: Reduces pulses that occur when piercing stainless steel or aluminum with nitrogen processing.
- **F95G**: Creates NC data with optimal path and supports fast processing of the plates.
- **Workpiece Lifter**: Allows materials to be set more easily and reduces scratches on the backs.
- **Workpiece Clamp**: Secures the material and prevents warping of long materials.
- **Additional window and LED**: Additional window improves operability.

**Processing Capability**

<table>
<thead>
<tr>
<th>Model</th>
<th>Material</th>
<th>Assist gas</th>
<th>Thickness (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GX-F80</td>
<td>Mild steel (S5400)</td>
<td>Oxy, Nitrogen</td>
<td>2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30</td>
</tr>
<tr>
<td></td>
<td>Mild steel (S5400)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stainless steel (S5400)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aluminum alloy (A5052)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Copper (C1100)</td>
<td>Air</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Brass (C3601)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td>GX-F82</td>
<td>Mild steel (S5400)</td>
<td>Oxy, Nitrogen</td>
<td>2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30</td>
</tr>
<tr>
<td></td>
<td>Mild steel (S5400)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stainless steel (S5400)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aluminum alloy (A5052)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Copper (C1100)</td>
<td>Air</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Brass (C3601)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td>GX-F82</td>
<td>Mild steel (S5400)</td>
<td>Nitrogen</td>
<td>2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30</td>
</tr>
<tr>
<td></td>
<td>Stainless steel (S5400)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Aluminum alloy (A5052)</td>
<td>Nitrogen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Copper (C1100)</td>
<td>Air</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Brass (C3601)</td>
<td>Nitrogen</td>
<td></td>
</tr>
</tbody>
</table>

- The values listed in the above processing capability chart are the capabilities under specific conditions. The inspection conditions depend on the specifications.
- Even if workpieces have the same standards, differences in processing performance and quality may occur depending on the surface condition and the composition.
- Differences in processing performance and quality may occur depending on the processing shape.
- For mild steel (S5400) with a plate thickness of 11mm or more, the values describe the capabilities when using steel plate LS (steel plate for laser cutting).
- For the assist gas, gas equipment that meets the pressure/flow rate set according to the target model/gas type is required. For details, check the specifications.

**Specifications/Layout**

### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>ML3015GX-F40</th>
<th>ML3015GX-F60</th>
<th>ML3015GX-F80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drive system</td>
<td>Piping spich</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control system</td>
<td>X,Y,Z simultaneous 3-axis control + Z-axis height sensing control</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Workspace dimensions (mm)</td>
<td>3,050×1,525</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel load weight (kg)</td>
<td>950</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Workspace support height (mm)</td>
<td>860</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stroke</td>
<td>X-axis (mm)</td>
<td>3,100</td>
<td>X-axis (mm)</td>
</tr>
<tr>
<td></td>
<td>Y-axis (mm)</td>
<td>1,565</td>
<td>Y-axis (mm)</td>
</tr>
<tr>
<td></td>
<td>Z-axis (mm)</td>
<td>120</td>
<td>Z-axis (mm)</td>
</tr>
<tr>
<td>Rapid feed rate</td>
<td>X/Y-axis (mm/min)</td>
<td>Max. 170 (combined)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>X-axis (mm)</td>
<td>0.06/500</td>
<td>X-axis (mm)</td>
</tr>
<tr>
<td></td>
<td>Y-axis (mm)</td>
<td>0.1/100</td>
<td>Y-axis (mm)</td>
</tr>
<tr>
<td>Repeatability</td>
<td>X-axis (mm)</td>
<td>±0.01</td>
<td>X-axis (mm)</td>
</tr>
<tr>
<td>Oscillator rated output (kW)</td>
<td>4</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>Power input (except peripheral equipment) (kVA)</td>
<td>25</td>
<td>30</td>
<td>36</td>
</tr>
<tr>
<td>Installation area (reference value) (mm)</td>
<td>13,000×5,200</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (kg)</td>
<td>Processing system main body</td>
<td>Approx. 7,000</td>
<td>Pallet changer</td>
</tr>
<tr>
<td></td>
<td>Cooling system</td>
<td>Approx. 800</td>
<td></td>
</tr>
</tbody>
</table>

### Layout

- Cooling method specification differs in the area. Please ask the sales company about layout drawing.
Laser Automatic Sorting System

Complete automation of laser production process from material loading to sorting

Complete automation of production processes including material loading / laser processing / sorting / unloading off-cut materials / loading finished products. Can be operated all day, greatly improving the productivity of the entire laser process. Also contributes to a reduction in costs and human errors caused by manual work. Mitsubishi Electric’s entirely new take on automation in sheet metal processing.

Material Loading
Automatically loads materials from packaging materials. In addition to Mitsubishi’s original 1 sheet pickup operation, a plate thickness detection sensor prevents the pickup of more than 1 sheet.

Loading of Processed Products
Loads finished products that have been picked up onto pallets. A sorting destination pallet can be specified to enable a smooth transition to the next process.

Loading of Processed Products
Replaces the arm tip with a forklift unit and transfers off-cut materials to the corresponding storage site. After unloading, small off-cut materials on the pallet are removed by the brush unit.

Laser Processing Systems

Broad adaptability with 4 independently controlled arms
4 independently controlled arms (patented) allow various processed products to be picked up regardless of shape. Enables sorting from 1mm to 25mm regardless of the plate thickness. For ASTES4 SORT

Enables rotary loading and loading long products
The 4 arms move independently, allowing even long products to be picked up. Since it can rotate freely at the time of placement, processed products arranged alternately in the nesting will be loaded in the same orientation.

Enables simultaneous pickup of multiple parts
Can pick up a maximum of 4 products simultaneously, minimizing the takt time for sorting. Small finished products can be picked up collectively by attaching micro-joints and nesting them in one place.

Enables sorting of up to 25mm from thin to thick plates
Both mild steel and stainless steel of up to a thickness of 25mm can be sorted.

Equipped with intuitive sorting CAM as standard
Create sorting program with 4 clicks
Only 4 clicks are needed to achieve everything from reading component data to sending sorting programs. The operations can be easily learned by anyone.

Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Material thickness</th>
<th>Total capacity</th>
<th>Arm rotation</th>
<th>Installation height</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTES4SORT</td>
<td>0.5~25mm</td>
<td>2000kg</td>
<td>360°</td>
<td>5350mm (Sorting unit)</td>
</tr>
</tbody>
</table>

Layout
Laser Automation System

Laser automation systems that improve productivity. Meets onsite needs. Automation achieves high productivity, minimum operator intervention and shorter delivery times. Supports micro-jointless processing and shortens post processing.

Pallet change type PCL Series

Continuous processing of thick plates
Micro-jointless processing
125mm compatible

- Easy to operate, improves work efficiency and requires minimum intervention.
- Troubleshooting reduces downtime
- Small size simplifies locating installation space

<table>
<thead>
<tr>
<th>Model</th>
<th>Applicable laser processing machine</th>
<th>Equipment height (mm)</th>
<th>Number of pallets</th>
<th>Material setting position (mm)</th>
<th>Material clamp position</th>
<th>Workpiece support intervals</th>
<th>Workpiece dimensions (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30PCL-GX-F[6]</td>
<td>ML-3015GX-F40/F60/F80</td>
<td>3,920</td>
<td>6</td>
<td>715mm above the floor (Free bearing height)</td>
<td>Standard: 2 locations on Y-axis of each pallet (manual)</td>
<td>Standard: 75mm (Options: 25/50mm)</td>
<td>914mm×1,829mm(3'×6') 1,000mm×2,000mm 1,220mm×2,440mm(4'×8') 1,525mm×3,050mm(5'×10')</td>
<td>490kg</td>
</tr>
<tr>
<td>30PCL-GX-F[15]</td>
<td>3,840</td>
<td>10</td>
<td>715mm above the floor (Free bearing height)</td>
<td>Standard: 2 locations on Y-axis of each pallet (manual)</td>
<td>Standard: 75mm (Options: 25/50mm)</td>
<td>914mm×1,829mm(3'×6') 1,000mm×2,000mm 1,220mm×2,440mm(4'×8') 1,525mm×3,050mm(5'×10')</td>
<td>490kg</td>
<td></td>
</tr>
</tbody>
</table>

Flexible loader & unloader MA Series

Processing of 2t packaging materials
Continuous processing of 2t packaging material is also possible by combining shelves for materials and finished products
Flexibly supports placement and number of carts, enables retrofit and expansion

- Enables interrupt operation
- Directly loading to the processing pallet with a crane, forklift, etc. is possible

<table>
<thead>
<tr>
<th>Model</th>
<th>Target workpiece</th>
<th>Material</th>
<th>Thickness</th>
<th>Dimensions</th>
<th>Weight (kg)</th>
<th>Transport unit</th>
<th>Material cart</th>
<th>Finished product cart</th>
<th>Automatic operation</th>
<th>Pallet change time</th>
<th>Equipment dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMA</td>
<td></td>
<td>Mild steel plate, stainless steel plate</td>
<td>11 to 132mm (Loadable sheet thickness)</td>
<td>914mm×1,829mm(3’×6”) 1,000mm×2,000mm 1,220mm×2,440mm(4’×8”) 1,525mm×3,050mm(5’×10”)</td>
<td>490kg</td>
<td>Load: Suction unit</td>
<td>1 unit</td>
<td>Specifications</td>
<td>1 unit</td>
<td>160 seconds or less</td>
<td>Approx. 40 seconds (Note: Check the processing system specifications)</td>
</tr>
<tr>
<td></td>
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<td>Specifications</td>
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<td></td>
<td></td>
<td>Specifications</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Layout

- Processing gas inlet side
- Drawer maintenance space
- Piping space
- Cooling system (Air)
- Stocker operation panel (mobile)
- Drawer suspension maintenance space

Maintenance space

Cooling system (Air)

Stocker operation panel (mobile)

Drawer maintenance space

Piping space

Maintenance space

Cooling system (Air)

Drawer suspension maintenance space

(Processing gas inlet side)
Mitsubishi Electric offers a wide range of automation equipment from PLCs and HMI to CNC and EDM machines.

A NAME TO TRUST
Since its beginnings in 1970, some 45 companies use the Mitsubishi name, covering a spectrum of finance, commerce and industry.

The Mitsubishi brand name is recognized around the world as a symbol of premium quality.

Mitsubishi Electric Corporation is active in space development, transportation, semiconductors, energy systems, communications and information processing, audio visual equipment and home electronics, building and energy management and automation systems, and has 237 factories and laboratories worldwide in over 121 countries.

This is why you can rely on Mitsubishi Electric automation solution - because we know first hand about the need for reliable, efficient, easy-to-use automation and control in our own factories.

As one of the world’s leading companies with a global turnover of over 4 trillion Yen (over $40 billion), employing over 100,000 people, Mitsubishi Electric has the resource and the commitment to deliver the ultimate in service and support as well as the best products.

* Not all products are available in all countries.
FACTORY AUTOMATION

2-Dimensional Fiber Laser Processing Systems
GX-F Series

* 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.

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HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
NAGOYA WORKS: 1-14, YADA-MINAMI, 5-CHOME, HIGASHI-KU, NAGOYA 461-8670, JAPAN

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* 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.

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