Mitsubishi Electric Laser Processing Machines
– supporting the world’s production sites –

- ML3015SR-32XP
  - 1986 L series
  - 1995 LX series
  - 1998 LZ series
  - 2001 LV series
  - 2008 LV PLUS series
  - 2011 eX series
  - 2015 eX PLUS series

Laser Processing Systems

Mitsubishi Electric processing machines support the world

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

FACTORY AUTOMATION
CO₂ 2-Dimensional Laser Processing Systems
ML3015SR-32XP

Specifications are subject to change without notice.

* 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.

Printed in Japan (IP)

New publication, effective Oct. 2015.
### Reliable and comfortable machine operation attained with the latest technology

#### Support for reliable operation

- **Night mode:** Switching to the night operation with the preset time is available. Supports reliable operation regardless of the risk of processing head collision and life of the PR mirror drastically.

- **Auto-focus preset head:** Adjustable both ON and OFF. Supports adjustment based on the processing contents, depending on the processing condition.

- **Visualization:** Compared to the competitor’s, the visualization support for the energy-saving / consumption monitor can be easily checked on.

- **Power/Gas consumption monitor:** Supports reliable operation regardless of the part geometry.

### All-around machine that covers all plate thickness

#### Improvement of processing performance

### Reduction in processing time of thin sheet

#### High speed cutting for thin sheet

- **Material/Thickness:** Stainless steel (SUS304)/t10mm
- **Reduced:** 34%
- **Beam ON time**
  - **Previous technology:** 50%
  - **New technology:** 20%

### New clean technology

- **Dirt limit value X of PR mirror differs depending on the processing contents, X.**
- **Dirt amount of PR mirror**
  - **Previous:** 92%
  - **New:** 20%

### Visualization supports energy saving / production plan and reduces operating cost

#### Reduces operating cost and supports energy savings

#### 3-Axis cross gas flow excitation-sytem oscillator

- **Laser gas composition:** CO2:CO:N2:He = 8:4:60:28

### Layout

#### Pallet changer weight

- **Approx. 2100**

#### Pallet load weight (kg)

- **3050**

#### Workclamp (manual)

- **950**

#### Parasitic discharge electrodes

- **150**

### Options

- **FRG (F-CUT Route Generator)**

#### Automation

- **Pallet changer (option).**

#### Simplified program editor

- **Screen creation, USB (ver.2.0), Ethernet**

#### Simple program editor

- **Auto-simulate.**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Laser output</td>
<td>2700 W</td>
<td>2100 W</td>
<td>1590 W</td>
<td>1200 W</td>
</tr>
<tr>
<td>Pulse peak output (W)</td>
<td>2700 W</td>
<td>2100 W</td>
<td>1590 W</td>
<td>1200 W</td>
</tr>
<tr>
<td>Power stability (%)</td>
<td>±1 or less</td>
<td>±1 or less</td>
<td>±1 or less</td>
<td>±1 or less</td>
</tr>
<tr>
<td>Laser gas consumption (L/min)</td>
<td>30 L/min</td>
<td>25 L/min</td>
<td>20 L/min</td>
<td>15 L/min</td>
</tr>
<tr>
<td>Power requirement (kVA)</td>
<td>2040 kW</td>
<td>1620 kW</td>
<td>934 kW</td>
<td>712 kW</td>
</tr>
<tr>
<td>Cooling capacity (kW)</td>
<td>2050 kW</td>
<td>1630 kW</td>
<td>934 kW</td>
<td>712 kW</td>
</tr>
<tr>
<td>R</td>
<td>5150 m/min</td>
<td>4500 m/min</td>
<td>3050 m/min</td>
<td>2390 m/min</td>
</tr>
<tr>
<td>L</td>
<td>5100 m/min</td>
<td>4500 m/min</td>
<td>3050 m/min</td>
<td>2390 m/min</td>
</tr>
<tr>
<td>X</td>
<td>5150 m/min</td>
<td>4500 m/min</td>
<td>3050 m/min</td>
<td>2390 m/min</td>
</tr>
<tr>
<td>Y</td>
<td>5150 m/min</td>
<td>4500 m/min</td>
<td>3050 m/min</td>
<td>2390 m/min</td>
</tr>
<tr>
<td>Z</td>
<td>5150 m/min</td>
<td>4500 m/min</td>
<td>3050 m/min</td>
<td>2390 m/min</td>
</tr>
<tr>
<td>Workpiece dimensions (mm)</td>
<td>2140 × 1020 × 1956</td>
<td>2040 × 1020 × 1956</td>
<td>2040 × 1020 × 1956</td>
<td>2040 × 1020 × 1956</td>
</tr>
<tr>
<td>Machine specifications</td>
<td>2140 × 1020 × 1956</td>
<td>2040 × 1020 × 1956</td>
<td>2040 × 1020 × 1956</td>
<td>2040 × 1020 × 1956</td>
</tr>
<tr>
<td>Pallet changer weight</td>
<td>2040 kW</td>
<td>1620 kW</td>
<td>934 kW</td>
<td>712 kW</td>
</tr>
<tr>
<td>Pallet load weight (kg)</td>
<td>3050</td>
<td>2100</td>
<td>1590</td>
<td>1200</td>
</tr>
<tr>
<td>Work clamp (manual)</td>
<td>950</td>
<td>712</td>
<td>515</td>
<td>305</td>
</tr>
<tr>
<td>Parasitic discharge electrodes</td>
<td>150</td>
<td>120</td>
<td>95</td>
<td>71</td>
</tr>
<tr>
<td>Parasitic discharge electrodes</td>
<td>150</td>
<td>120</td>
<td>95</td>
<td>71</td>
</tr>
<tr>
<td>Parasitic discharge electrodes</td>
<td>150</td>
<td>120</td>
<td>95</td>
<td>71</td>
</tr>
<tr>
<td>Parasitic discharge electrodes</td>
<td>150</td>
<td>120</td>
<td>95</td>
<td>71</td>
</tr>
</tbody>
</table>