Nireco’s laser marking system can mark directly onto the sides or ends of thick plates moving on the production line. It can write text information necessary for quality control and inventory management, and barcodes that are essential for logistics management, yielding major cost reductions. Using our abundant experience and expertise in the steel industry, this marking system marks quickly and accurately, on hot metal or on cold metal. It is also highly environmentally stable, for dependable long-term use.

**Features**

- Handles all surface states.
- Writes on all casting surface irregularities.
- Harmless, water-soluble ink.
- Newly-developed surface coat application nozzle eliminates ink blockages.
- Low laser marker running cost – just surface coat and electricity.
- High printing speed allows instant marking.
- Prints regular, 2D, RSS and other types of barcode.
- Prints on hot materials at up to 900°C, as standard.
For billets, bars, pipes and thick plates **Laser Marking System**

**Component devices**

- **Main marking body**
- **Control panel**
- **Ink supply unit**

**Print samples**

- **Thick plate**
- **Aluminum**
- **Pipes**
- **Steel elements**

**Specifications & Comparison table**

<table>
<thead>
<tr>
<th>Component</th>
<th>Text size</th>
<th>Minimum line thickness</th>
<th>Color</th>
<th>Print speed</th>
<th>Depth of focus</th>
<th>Basic print range</th>
<th>Print speed/width</th>
<th>Laser type</th>
<th>Inkjet</th>
<th>Labeling</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Surface coat</strong> only</td>
<td>2mm~</td>
<td>0.010mm~</td>
<td>Surface coat color, white etc.</td>
<td>50 chars (H4.5mm)/3.5s</td>
<td>10mm</td>
<td>105mm x 105mm</td>
<td>100mm/sec</td>
<td><strong>Cheap</strong></td>
<td>Surface coat + ink, cleaning fluid etc.</td>
<td><strong>Expensive</strong></td>
</tr>
<tr>
<td><strong>High contrast ratio due to carbonization of surface coat</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>Expensive</strong></td>
<td><strong>Printing over surface coat gives low contrast</strong></td>
<td><strong>Only handles inclination</strong></td>
</tr>
<tr>
<td><strong>Laser irradiation position control allows marking to track the form of the plate</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td><strong>Only handles inclination</strong></td>
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We reserve the right to change the specifications in this catalog without prior notice to improve and update our products.