Plasma and Oxy-fuel Cutting Machine

High-speed/quality cutting Plasma and TANAKA brand oxy-fuel cutting have been combined into one machine.

The newest and most powerful plasma, and TANAKA high-reliable oxy-fuel cutting being popular all over the world have been combined into one machine. This machine can realize short processing time and high efficiency process, thanks to lighter machine body, high speed driving system, the newest controller and High quality plasma cutting power source.
Plasma and Oxy-fuel Cutting Machine

**Configuration**

<table>
<thead>
<tr>
<th>Component</th>
<th>Set(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting machine body</td>
<td>1</td>
</tr>
<tr>
<td>Plasma cutting apparatus, HPR260XD manual</td>
<td>1</td>
</tr>
<tr>
<td>NC device, ROBOCUT SYSTEM Q-15</td>
<td>1</td>
</tr>
</tbody>
</table>

**Equipment configuration**

<table>
<thead>
<tr>
<th>Model</th>
<th>KT-650PGR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rail span</td>
<td>4,500mm, 5,000mm</td>
</tr>
<tr>
<td>Effective cutting width (Plasma)</td>
<td>3,500mm*, 4,000mm*</td>
</tr>
<tr>
<td>Effective cutting width (Oxy-fuel)</td>
<td>3,300mm*, 3,800mm*</td>
</tr>
<tr>
<td>Rail size</td>
<td>50kg/m Rail</td>
</tr>
<tr>
<td>Rail length</td>
<td>24,000mm (Extendable every 1,200mm)</td>
</tr>
<tr>
<td>Effective cutting length</td>
<td>21,500mm</td>
</tr>
</tbody>
</table>

**Plasma cutting apparatus**

- HPR260XD Oxygen plasma cutting apparatus (260A output, Manual type) "Standard"
- HPR400XD Oxygen plasma cutting apparatus (400A output, Manual type) "Option"
- HPR130XD Oxygen plasma cutting apparatus (130A output, Manual type) "Option"
- PEGASUS500 Oxygen plasma cutting apparatus (500A output) "Option"

**Oxy-fuel cutting torch**

- Standard: HC-326C×2 torches (Up to 4 torches available)

**Materials to be cut**

- SS400, SM, SN, Low temperature steel, Steel with wash primer and zinc primer

**Plate thickness to be cut (pierced)**

- SS400 (mild steel) vertical: HPR260XD t6~32mm (Standard)
- HPR400XD t6~38mm (Option)
- HPR130XD t6~16mm (Option)
- PEGASUS500 t6~50mm (Option)
- Oxy-LPG t6~150mm with 2 torches (Standard)
- Oxy-LPG t6~100mm with 3 torches (Options)

**Processing speed**

- 1~6,000mm/min

**Rapid traverse**

- Rapid speed: 24,000mm/min
- X-axis manual rapid speed: 24,000mm/min
- Y-axis manual rapid speed: 12,000mm/min
- Home return speed: 12,000mm/min
- Marking speed: 12,000mm/min

**Lifting stroke**

- 200mm for Plasma, 95mm for Oxy-fuel Motorized: 95mm, Manual: 100mm

**NC device**

- ROBOCUT System Q-15, FS-32i (Paneli option)

**Cable bearer**

- Cable Bearer Type

**Standard components and functions**

- Plasma straight cutting torch block with motorized torch station
- Breakaway for plasma torch
- Arc standoff sensor + initial height sensor
- Oxy-fuel straight cutting torch block with motorized torch station
- Obstacle detection sensor (Photo sensor and Bump sensor)
- Rotating warning lamp
- Fume blower
- Coordinate rotation function (With laser spot)
- Schedule function
- Standard shapes
- USB port for date input and output

**Optional functions**

- Auto ignition
- Water spray
- Operator deck
- Z-maring device
- Stainless steel cutting

**Caution**

- The person who operates Plasma Cutting Machine shall be required to take an adequate training based on regulations/laws/etc of each country.
- Be sure to read through "Instruction Manual" beforehand, to properly operate the machine.

The specification is subject to change for improvement without notice.

Manufactured by:

NISSAN TANAKA CORPORATION

http://nissantanaka.com

No.11, Chikumazawa, Miyoshi, Iruma-gun, Saitama, 354-8585 Japan

TEL : +81-49-258-4412 FAX : +81-49-258-4858