**High performance and efficiency to meet a wide range of requirements**

- 5 models available
- Effective cutting width: 3.1m, 3.6m, 4.1m, 4.6m, 5.1m
- Extendable cutting length
- New options

**SOPHISTICATED CNC CUTTING MACHINE**

**VERSAGRAPH-DX I Series**

*A NEW APPROACH TO HIGH SPEED AND PRECISION CUTTING*

**Basic option**
- Quantities of cutting torch (Max. 8-torches)
- Automatic igniter
- Water spray unit
- Motorized torch lifter (HDH)
- Forward/Backward adjuster
- Quick change torch
- Powder marking system
- Automatic igniter for marking torch
- Scrap cutting torch
- Rail extension (Increments of 3 m)

**Controller option**
- Alternate coordinate-axes
- Stop position restart
- Coordinate rotation

**Custom option**
- Right hand side operation
- Pedestals for rail installation
- Input transformer
- Alternate fuel gases
- Paint color
- Plasma cutting system (SUPER-200 / 400, HT-2000 / 4001, HD-3070 / 4070, MAX-100 / 200)

**Machine Drawing and Dimensions**

**Specification**

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Versagraph-4000 DXI, (&quot;4000&quot; is same as its &quot;Rail span&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main body</td>
<td>Gantry type / Dual-side drive</td>
</tr>
<tr>
<td>Operator's side</td>
<td>Left side</td>
</tr>
<tr>
<td>Drive method</td>
<td>Rack and pinion drive for X and Y axes</td>
</tr>
<tr>
<td>Rail span</td>
<td>4000 mm, 4500 mm, 5000 mm, 5500 mm, 6000 mm</td>
</tr>
<tr>
<td>Effective cutting width</td>
<td>&quot;Rail span&quot; = 900 mm</td>
</tr>
<tr>
<td>Effective cutting length</td>
<td>Rail length (standard: 15000 mm) = 2100 mm</td>
</tr>
<tr>
<td>Torch mounting system</td>
<td>Steel belt connection system</td>
</tr>
<tr>
<td>Cutting speed</td>
<td>6000 mm/min</td>
</tr>
<tr>
<td>Marking speed</td>
<td>12000 mm/min</td>
</tr>
<tr>
<td>Rapid traverse speed</td>
<td>1800 mm/min</td>
</tr>
<tr>
<td>CNC system</td>
<td>D-180 F5</td>
</tr>
<tr>
<td>Torch quantity</td>
<td>Max. 8-torches</td>
</tr>
<tr>
<td>Minimum torch distance</td>
<td>125mm</td>
</tr>
<tr>
<td>Cutting functions</td>
<td>✥ Hi/Low gas controller ✥ Automatic piercing unit</td>
</tr>
<tr>
<td>Oxy/fuel cutting capacity</td>
<td>6~100mm (max. 50mm by 8-torches)</td>
</tr>
<tr>
<td>Power-supply voltage</td>
<td>Single phase 100V/110V, Three phases 200/220V</td>
</tr>
<tr>
<td>Machine color</td>
<td>Koike Red (Main body)</td>
</tr>
</tbody>
</table>

**Basic option**

- Hi/Low gas controller
- Automatic piercing unit
- Steel belt connection system
- Water spray unit
- Motorized torch lifter (HDH)
- Forward/Backward adjuster
- Quick change torch
- Powder marking system
- Automatic igniter for marking torch
- Scrap cutting torch
- Rail extension (Increments of 3 m)

**Controller option**

- Alternate coordinate-axes
- Stop position restart
- Coordinate rotation

**Custom option**

- Right hand side operation
- Pedestals for rail installation
- Input transformer
- Alternate fuel gases
- Paint color
- Plasma cutting system (SUPER-200 / 400, HT-2000 / 4001, HD-3070 / 4070, MAX-100 / 200

**KOIKE INTERNATIONAL GROUP**

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KOIKE SANSO KOGYO CO., LTD.
The ArcWriter is a dual gas, variable output power, plasma marking, scoring and punching system designed to leave temporary or permanent identification marks on metal surfaces.

**Light Scoring and Marking**

**Heavy Scoring and Marking**

**Punch Mark or Dimple**

An electrostatic capacitance sensor detects the surface of the steel plate. Linked to a motorized torch riser, it automatically maintains a constant stand off between the cutting tip and the steel plate.

A powerful, high quality, state of art CNC controller with advanced functions for enhanced productivity and efficiency

- A new operator using this controller will be quickly transformed into a skilled worker because he can easily learn to operate the cutting machine with the touch panel controls.
- The controller has 60 built-in standard shapes that can be cut immediately after inputting desired dimensions.
- The D-180i FS can easily communicate with other devices using its networking capabilities. Serial transmission is also available.
- The controller will accept both EIA and ESSI format as standard, making NC programming easy. If special requirements exist, these can be easily accommodated.

### Specifications

<table>
<thead>
<tr>
<th>System</th>
<th>SUPER-200</th>
<th>SUPER-400</th>
<th>SUPER-600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of power source</td>
<td>KP-200Z</td>
<td>KP-400Z</td>
<td>KP-600Z</td>
</tr>
<tr>
<td>Input voltages</td>
<td>200V / 220V</td>
<td>200V / 220V</td>
<td>200V / 220V</td>
</tr>
<tr>
<td>Input power</td>
<td>53.9kVA</td>
<td>104kVA</td>
<td>180kVA</td>
</tr>
<tr>
<td>Output voltages</td>
<td>200V</td>
<td>200V</td>
<td>200V</td>
</tr>
<tr>
<td>Output current range</td>
<td>100 – 400A</td>
<td>100 – 600A</td>
<td></td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>W500 × D800 × H1100</td>
<td>W700 × D1000 × H1350</td>
<td>W700 × D1350 × H1400</td>
</tr>
<tr>
<td>Weight</td>
<td>210kg</td>
<td>400kg</td>
<td>600kg</td>
</tr>
<tr>
<td>Type of torch</td>
<td>200-OPS</td>
<td>400-OPS</td>
<td>605-OPS</td>
</tr>
<tr>
<td>Dimensions (mm)</td>
<td>± 50 × L270</td>
<td>± 56 × L288</td>
<td>± 70 × L300</td>
</tr>
<tr>
<td>Plasma gas</td>
<td>O₂ / N₂</td>
<td>O₂ / N₂</td>
<td>O₂</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.8MPa</td>
<td>0.8MPa</td>
<td>0.8MPa</td>
</tr>
<tr>
<td>Secondary gas</td>
<td>Air / Ar + O₂</td>
<td>Air / Ar + O₂</td>
<td>Air</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.8MPa</td>
<td>0.8MPa</td>
<td>0.8MPa</td>
</tr>
<tr>
<td>Shield gas</td>
<td>—</td>
<td>CO₂ / H₂</td>
<td>—</td>
</tr>
</tbody>
</table>

### Available Options

- 3D-Link type Plasma bevel cutting unit
  - Control of torch posture of the 3D-Link system makes the torch-height control point on the cut material a center point and executed.
  - Since the torch is inclined to the direction of the normal of the cutting line, demanded V-edge preparation is obtained.

- Hi-Low Pre-heat Control unit
  - Standard Hi-Low Pre-heat Control provided on the Versagraph shortens time required to preheat plate before piercing.
  - Perfect setting of pre-heat flame is easy.

- Operation Panel
  - Centralized control station groups all control and operating functions in a single location, convenient to the operator.

- ArcWriter
  - The ArcWriter is a dual gas, variable output power, plasma marking, scoring and punching system designed to leave temporary or permanent identification marks on metal surfaces.

- Linear Guide
  - High speed accurate plasma cutting and line marking have become reality by adding linear guide ways and slides to the X-direction main drive carriage and sub carriage.

- Powder marking system
  - In order to mark lines on the steel plate (for welding or bending purposes), it is ideal to use a powder-marking unit.