Gantry Welding Systems

**TYPES OF BEAMS:**
- with closed section
- with T-section
- with I-section
- HSI and HSQ beams

**MAIN TECHNICAL DATA:**
- Speed of X axis movement: from 0.01 up to 10 m/min.
- The standard version comprises 5 numerically controlled axes, controlled by a computer system with TFT graphic display
- Active compensation of position of both torches with regard to the welding seam with precision of 0.1 mm
- Control system menu in English

**TYPICAL WORK SPACE:**
*(to be customized)*
- 1.200 mm vertically
- 1.200 mm horizontally
- Length of track - 18.5 m
- Length of welding - 16 m

MOST OF TECHNICAL SPECIFICATIONS CAN BE CUSTOMIZED. ONE OF PROMOTECH’S MAIN ADVANTAGES IS ITS CAPACITY TO MANUFACTURE PURPOSE DESIGNED AND CUSTOM BUILT SYSTEMS.
GENERAL ADVANTAGES & BENEFITS:

- Welding process automation
- Increase efficiency and production rate
- Replace time-consuming labour of a couple of welders
- Ensure high-quality welding seams with regular repetitiveness
- Enable multi-layer seams
- Improve working conditions and operator’s safety
- Dimensions of gantry and track are tailored to customers’ requirements

MAIN FEATURES:

- GWS is controlled by digital controller
- The system comprises a high-precision maintenance-free, planetary gearbox
- All axes are powered by high-class servo motors
- Every servo motor is controlled by a digital inverter
- High-precision linear guides ensure precise and smooth motion of all system axes
- The torch holders are fitted on machine’s supports through anti-collision joints
- Rigid and heavy duty construction is based on aluminium section profiles
- GWS is equipped with active safety systems enable protection of the staff
- System software can be customized to the customer’s welding technology
- Depending on a type of welding equipment there is a possibility of registration of welding parameters like current and voltage in a function of time
- Visual seam tracking system and remote control is available upon request

<table>
<thead>
<tr>
<th>GWS Type/Size</th>
<th>GWS 1200/1200</th>
<th>GWS 1500/1500</th>
<th>GWS 1500/2500</th>
<th>GWS 1800/3300</th>
</tr>
</thead>
<tbody>
<tr>
<td>A x B [mm]</td>
<td>1200 x 1200</td>
<td>1500 x 1500</td>
<td>1500 x 2500</td>
<td>1800 x 3300</td>
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<tr>
<td>C x D [mm]</td>
<td>2000 x 3100</td>
<td>2300 x 3500</td>
<td>2300 x 4500</td>
<td>2600 x 5500</td>
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</tbody>
</table>

Size E (600 mm most common) and size F (18.500 mm most common) to be agreed with customer