

# GANTRY WELDING SYSTEM FROM STEELMAX®

## THE GWS 1200/1200, 1500/1500, 1500/2500 or 1800/3300

### WELDING PROCESS AUTOMATION FOR PRODUCTION EFFICIENCY



#### APPLICATION

- Longitudinal welding of long structural beams with web in vertical position and with weld seam tracking for both torches.

#### TYPES OF BEAMS

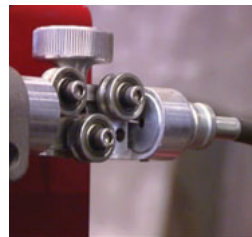
- with closed section
- with T-section
- with I-section
- HSI and HSQ beams

#### TYPICAL WORK SPACE (customizable)

- 1.200 mm vertically
- 1.200 mm horizontally
- Length of track – 61' (18.5 m)
- Length of welding – 52.5' (16 m)

#### TECHNICAL DATA

- Speed of X axis movement: from .4" up to 33'/min (0.01 up to 10 m/min)
- The standard version comprises 5 numerically controlled axes, controlled by a computer system with TFT graphic display.
- Weld seam tracking for both torches accurate to .004" (0.1 mm)



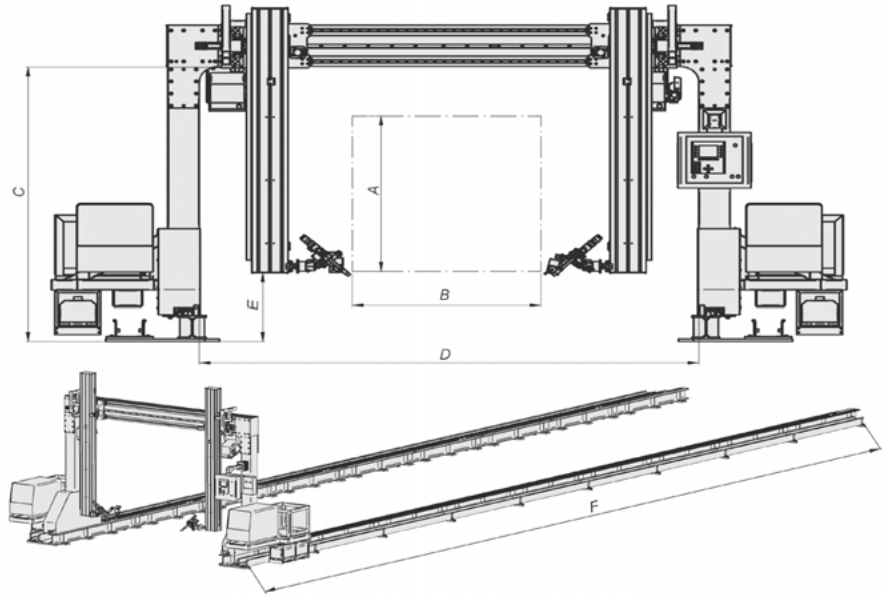
*Most of the technical specifications can be customized. One of Steelmax's main advantages is its capacity to manufacture application specific and custom built systems.*

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## CONTROL SYSTEM

- GWS is controlled by a digital controller
- The system has 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 that enable personnel protection
- System software can be customized to meet the customer's welding technology
- Depending on the type of welding equipment, the machine can record the time values for both current and voltage
- Visual seam tracking system and remote control is available upon request



GWS Type/Size	GWS 1200/1200	GWS 1500/1500	GWS 1500/2500	GWS 1800/3300
A X B [mm]	1200 X 1200	1500 X 1500	1500 X 2500	1800 X 3300
C X D	2000 X 3100	2300 X 3500	2300 X 4500	2600 X 5500

F dimension determined by customer requirement.

## GENERAL ADVANTAGES & BENEFITS

- Welding process automation
- Increase efficiency and production rate
- Reduces time-consuming hand welding
- Ensure high-quality continuous welding seams
- Enable multi-layer seams
- Improve working conditions and operator's safety
- Gantry and track dimensions are tailored to customers' requirements

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