

GS SERIES CNC CUTTING SYSTEM

Maximize your productivity and costs efficiency

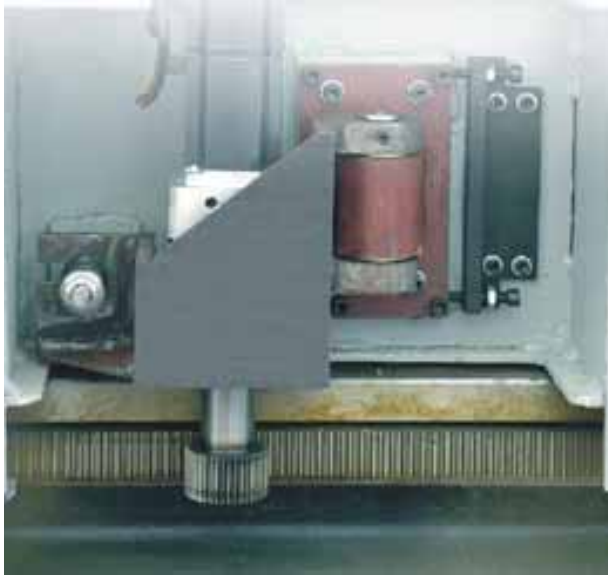


GS series CNC plasma-flame cutting system is the most value-added system in the North American market. Integrated with the most high-end technology in the world, GS series cutting system offers the best performance and heavy duty design. The system is capable to equip with variety plasma cutting system with output from 40A to 400A f or cutting up to 32mm mild steel. Extra oxy-fuel torches and plate marking may also be added.

GS series CNC cutting tables are available in single side drive in 1.6m/2.1m/3.1m effective cutting widths. Dual side drive version available in 3.1m up to 12m cutting width. Cutting length of 18M can achieved.

When equipped with an optional down-draft air table and smoke purifier, the system can meet European indoor standard cutting smoke and dust emission.

Rugged frame construction designed to use thin plate box welding structure, and the whole structure anneals after welding. This exceptional design and heat treatment guarantees the highest rigidity combined with light weight. Horizontal guide wheels are mounted at both ends with



Drive system

tension adjustment. The frame is equipped with additional dust remover to guarantee the cleanness of the track during heavy duty production.

Cross beam is designed to use thin plate box welding structure with additional anneal treatment after welding. Two hardened high precision bear linear tracks are mounted in the back of the beam, ensuring the accuracy of the carriage moving less than $\pm 0.2\text{mm}/10000\text{mm}$.

Rail system is made of 15lb(per foot) t-rail which is machined to a tolerance of ± 0.001 " width.

Drive system is equipped with Panasonic AC digital servo, coupled with inline planetary high ratio gear box. Panasonic servo is all digital, supply power and logical control integrated modular system, uses Increment Pulse Encoder (IPE) as

position feedback and speed feedback.

The German produced gear box has a precise guide system and tooth gas tension device, ensuring the overall accuracy of the system.

CNC control uses world leading **MicroEDGE** CNC made by Hypertherm Automation. The **MicroEDGE** control package provides a unique combination of flexible table configurations, expandable features, and unparalleled ease of use.

MicroEDGE utilizes proprietary Graphical User Interface (GUI) and SoftMotion technology with motion control operation of 2 axes with 24 digital I/O signals. 15" LCD color industrial monitor is used for exceptional graphics together with extreme harsh environment. GS series cutting system uses special industrial on-site keyboard and 8 direction station to guarantee the system working perfectly in various conditions.

For high-end cutting application, a more professional **BURNY 10** developed by a US company CMC can be used for CNC control system.



CNC control system

Plasma Torch Height Control(THC) uses Hypertherm Automation **SENSORTHC**, it offers Ohm initial height sensing and error stall detection, 12 inch stroke, 100 W AC servo motor, 1000 IPM positioning, 100 mgee's acceleration, 50-300 V arc voltage range with 0.5 volt increments. The system is specifically designed to integrate with **MicroEDGE** control system and can be controlled by on-screen interface.

FastCAM® is most commonly sold nesting software. The software optimizes both the material usage and the sequence of cutting. Parts can be nested automatically or manually placed for maximum productivity.

Nest a variety of file formats with support for all secondary processes like marking.

Multiple primary process are also supported including

mixed Oxy-fuel, Plasma, even bevel cutting.

FastCAM® is supplied with GS cutting system as standard.



collision-sensor-and-initial positioning device



Cutting system integrate with center draft air table

Options:

PLASMA SYSTEM: Hypertherm plasma system, Thermal Dynamics Plasma system,

PLASMA THC: Hypertherm Sensor THC, Tutx 95300 system.

OXY-FUEL Auto-marking and Auto-ignition.

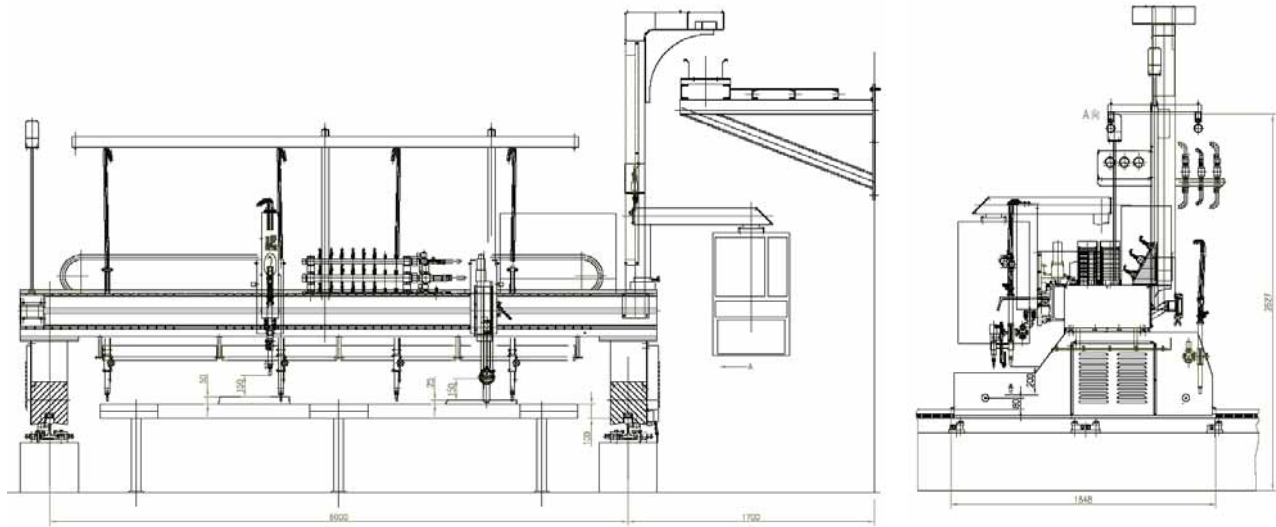
Motorized Oxy-fuel lifter stations
Capacitor Oxy-fuel Auto lifting system

Down draft table

Keller Smoke collector and air purify system

Oxy-fuel air scribe

AC Voltage stabilizer



SPECIFICATIONS

Model	Rail span (mm)	Effective cutting (mm)	Drive mode
GS I-2500	2500	1600	Single side
GS I-3000	3000	2100	Single side
GS I-3500	3500	2600	Single side
GS I-4000	4000	3100	Single side
GS II-4500	4500	3600	Double side
GS II-5000	5000	4100	Double side
GS II-5500	5500	4600	Double side
GS II-6000	6000	5100	Double side
GS II-6500	6500	5600	Double side
GS II-7000	7000	6100	Double side
GS II-7500	7500	6600	Double side
GS II-8000	8000	7100	Double side
GS II-8500	8500	7600	Double side
GS II-9000	9000	8100	Double side
GS II-9500	9500	8600	Double side
GS II-10000	10000	9100	Double side
GS II-11000	11000	10100	Double side
GS II-12000	12000	11100	Double side