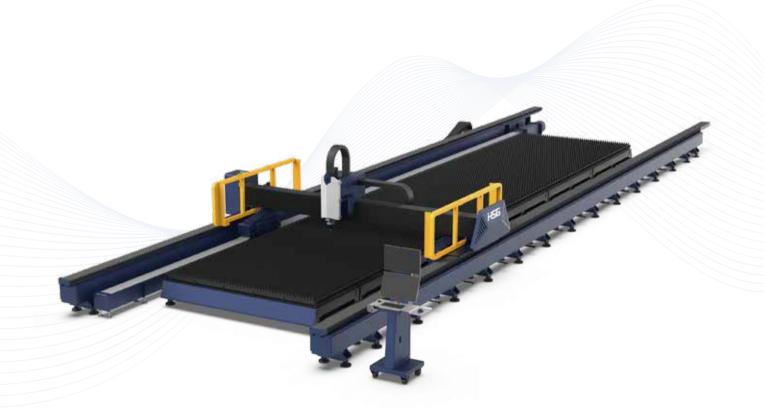
Version No.: 2024.1





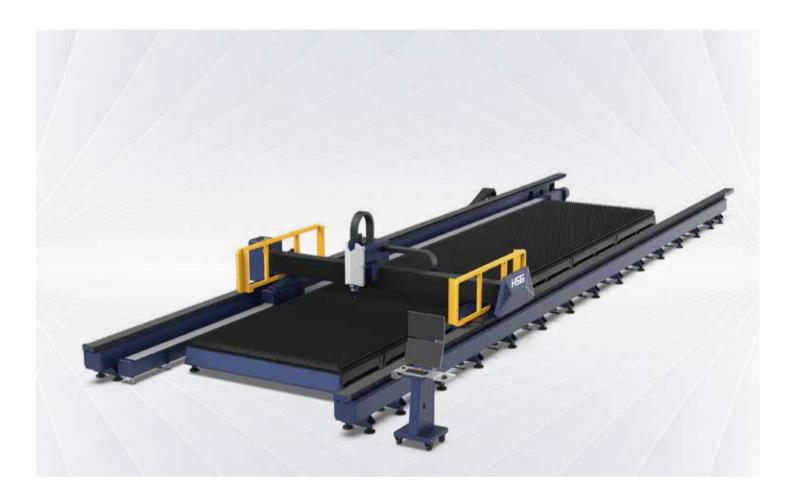
GFA

High-Power, Large Format Fiber Laser



GFA 12kW - 60kW

High-power Large-format Laser Cutting Machine



Technical Parameters

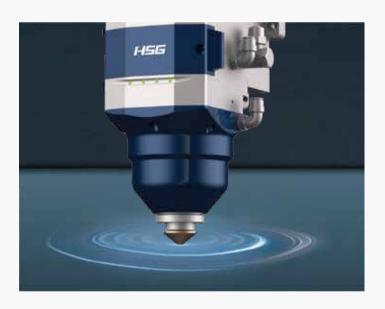
Technical Parameters	G12025FA	G12035FA	Bevel-G12025FA	Bevel-G12035FA
Resonator Power	12kW - 60kW	12kW - 60kW	12kW - 60kW	12kW - 60kW
Max. Sheet Size	476" x 98.4"	476" x 137.8"	476" x 98.4"	476" x 137.8"
X/Y-axis positioning accuracy	±0.002 IPM	±0.002 IPM	±0.002 IPM	±0.002 IPM
X/Y-axis repositioning accuracy	±0.002"	±0.002"	±0.002"	±0.002"
No-load speed	262 FPM	197 FPM	262 FPM	197 FPM
Acceleration	0.5 G	0.5 G	0.5 G	0.5 G
Beveling Cutting Or Not	GFA (×) BEVEL-GFA (√)			

* Machine appearance, technical parameters, function description, data comparison shown in this page are from HSG in-house laboratory. All testing results and experimental data shall be subject to real machine.

HSG Bus-based Control System

- EtherCAT bus high-speed response with strong anti-interference capability and simple electrical maintenance.
- Support absolute value and continue in outage and at the break-point for convenient remote diagnosis and servo adjustment.
- Automatic management of machine maintenance, core components are monitored in real time for easy and maintenance reminded on a regular basis.



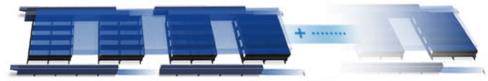


Bus Follow-up Response Technology

- High sensitivity detection of striker plate.
- High speed follow of vibrating sheet.
- Automatic obstacle avoidance.

Segmented Splicing Machine Bed

• The machine bed is made of several sections and allows to be customized as needed for infinite splicing machine beds.

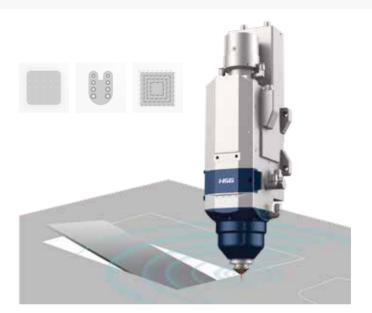


• Cutting large-format sheet will be easily handled.

HSG			
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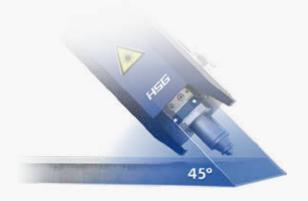
Professional Nesting Software with Standard Configuration

- High nesting utilization ratio as famous nesting software.
- Simple operation with drawing function and support manual and automatic nesting.
- Support different materials and thicknesses categorized typesetting.
- Excel batch import.



Production Process Database

- Users can invoke cutting technology from the database when cutting sheet of different materials and thickness.
- Fly cutting of thin sheet.
- Edge searching for round disc.
- Nano microjoining.

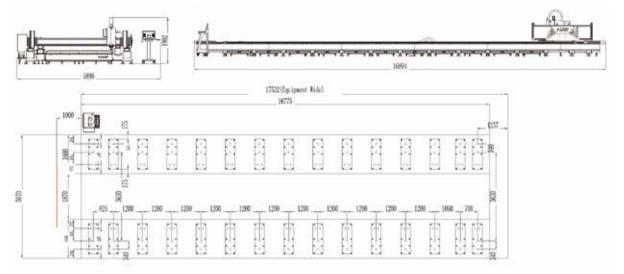


Process Various Types of Bevels (Available: BEVEL GFA)

• P series cutting head with AlphaT bus system can realize 0-45° bevel cutting, including V bevels, X bevels, Y bevels etc.

Machine Foundation

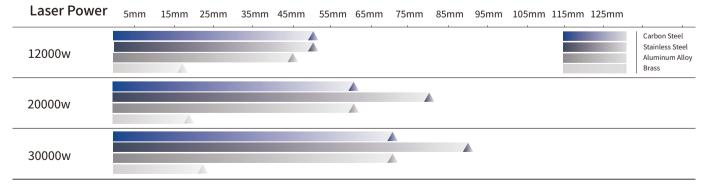
*Pictures of G13025F are for reference only and subject to actual dimensions.



::: Cutting Samples



Cutting Capacity



The actual machines shall prevail and above data & pictures are only for reference.

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