



# Description

- Steel structure table body to ensure durablity and precision.
- Dual driving system on Y, track, pinion and gear system.
- Electric limits on Y, machine stops at ends. Safe for machine and operator
- Separate driving system on X, track, pinion and gear system.
- Electric limits on Y, machine stops at ends. Safe for machine and operator
- Automatic torch height controller on Z. You smile at a deformed plate
- Higher speed and higher precision
- Strong body to hold water bed table
- Caution light to reminder people safety and machine's safety
- Cable chain on X and on Y to protect cables
- Loading can be done by parts or by completely assembled machine.
- 7" displayer, colorful interfaces, English, Russian, Spanish, Portuguese, French, Korean, Chinese.
- 44 Shapes in controller library.

# Specification

Model	FLASHCUT
Power supply(V,Hz)	1 phase, 110, 220, 230, 240, 50, or customised
Input capacity(KW)	3
Screen	7", colorful interface
Cutting width(mm)	1500, 2000
Cutting length(mm)	3000, 4000, 5000, 6000
Cutting model	Plasma(Flame to be optional)
CNC controller	Hugong HG612
Plasma	Powermax45 65 85 105 125
Positioning speed(mm/min)	12,000
Recommended Positioning Speed(mm/min)	6000-8000
Accuracy(mm)	Positioning: 0.5/1000、Repeatability: 0.2/1000
Machine size(mm)	4500*2700*1600
Optional 1	Plate rider
Optional 2	FastCAM, Pro, Pronest
Optional 3(mm)	Special for 1-3

#### Working process









Option 1 Controllers

Plasma unit

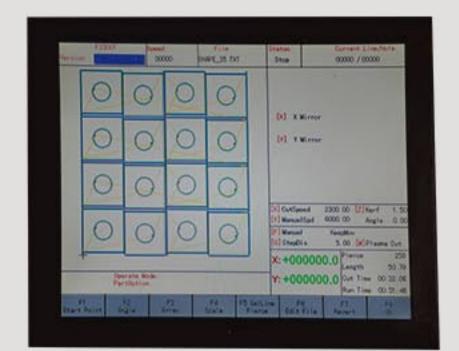
Option 3

**Nesting software** 







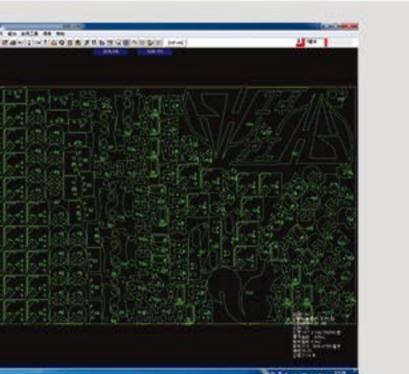


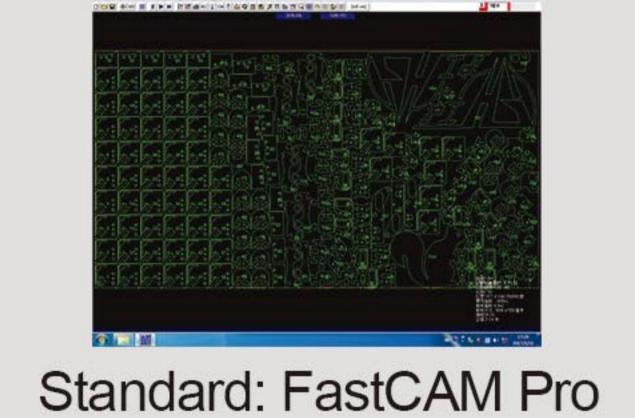
Upgrade: stand alone CNC, 17" monitor

Standard: HG612T, 7" monitor







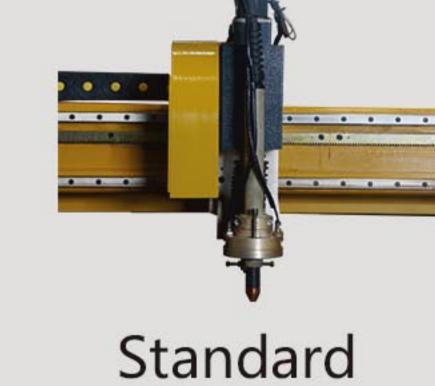








Machine at sites



option: plate rider for 1-3mm









# **ECONOCUT**





- A good choice for flame and plasma cutting. It is specially designed for metal
- plate cutting process.
- Machine size can be produce due to customer's requirement on X and Y direction. Strong gantry system ensures durability, stability and quick speed. CNC controller
- gives screen of 7", English, Russian, Spanish and others.
- CNC Controller gives easy operation interface, shape library and cutting parameters
- programs.
- Efficiency improvement and cutting quality functions, including Mirror, rotation, scale, repeat, etc USB terminal is to supporting program and data inputing and outputing.
- Automatic torch height controller on flame and plasma torches. With Auto ignition device on flame torch flash arrestor on flame torch. For light industries requesting ordinary thickness by both plasma and flame.

# Specification

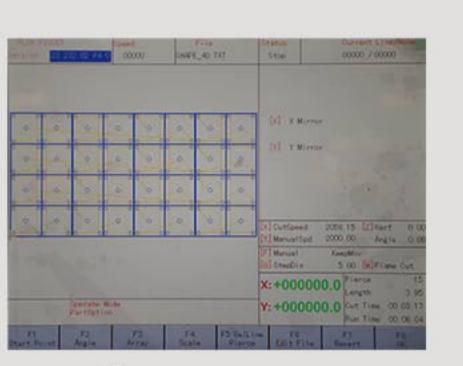
al	Model	ECONOCUT
	Input Voltage(V)	110/220/230/240V, 220/380/400/415V,50/60HZ
า.	Rail distance (mm)	2500/3000/3500/4000
r	Effective cutting width(mm)	600mm less than rail distance
	Rail length(mm)	Customer's requirement or 6000,8000,10000,12000
rs	Effective cutting length(mm)	1500mm less than rail length
	CNC torch (piece)	1-2
n, d	Flame cutting thickness (mm)	6-150
	Flame cutting speed (mm/min)	50-750
	Moving speed (mm/min)	12000
	Flame cutting gas	Acetylene, Propane, LPG
	Plasma cutting thickness (mm)	Due to plasma power source
	Plasma power source	Suits Hypertherm Powermax45 65 85 105 125

### Working process

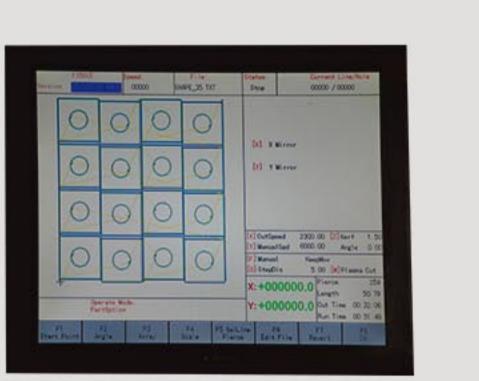












Standard: HG616, 10" monitor

Plasma unit

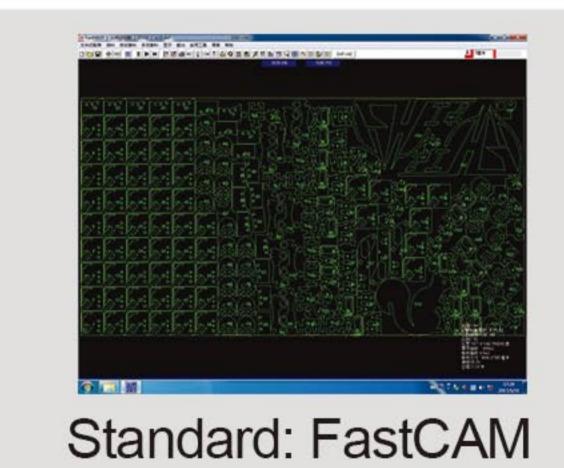






Option 4

**Torch Height controller** 







Upgrade: ProNest

Upgrade: separate lifter

Machine at sites



Standard torch lifter





# HGCUT



# Main components

- CNC controller: American, European and Hugong brand options
- Automatic THC: Hypertherm and Hugong brand options
- Servo motor: Panasonic
- Gear box: Germany brand NEUGART
- Linear rail: TBI or HIWIN
- Relay: Omron
- Breaker: Schneider
- Nesting software options

Australian: FastCAM PRO

American: Hypertherm Pronest LTS

American: Hypertherm ProNest LTS

American: SigmaNest

### Specification

Model	HGCUT
Cutting model	Plasma, Flame
Input voltage(V,Hz)	110/220/230/240, 220/380/400/415,50/60
Rail width(mm)	3000-6000
Effective cutting width	800mm less than rail width(2 CNC torches)
Rail length(mm)	Customer's requirement, 8000/12000/16000
Effective cutting length	2000mm less than rail length
CNC controller	15" /17" colorful monitor, USB port
CNC torches	1-4 sets
Positioning accuracy(mm)	±0.5
Repeating accuracy(mm)	±0.2
Positioning speed(mm/min)	12,000
Flame cutting gas	Acetylene, Propane, LPG
Flame cutting thickness(mm)	5-150
Flame cutting speed(mm/min)	50-750
Plasma cutting thickness	Due to plasma unit
Plasma cutting speed	Due to plasma unit
Compatible plasma unit	Hypertherm: Powermax Series, HSD, Maxpro, HPRXD Victor: Cutmaster Series, AUTOCUT200/300

#### Working process









Option 2

Plasma unit

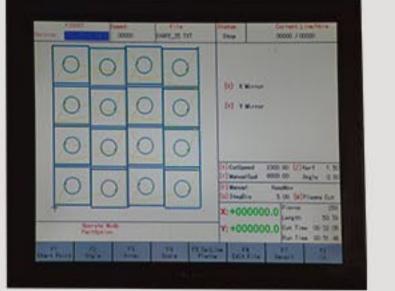
Option 3

**Nesting software** 

Option 4

**Torch Height controller** 







EDGE Connect Standard: HG613, 17" monitor











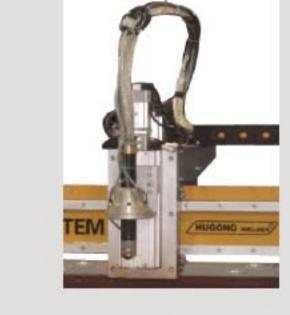
Upgrade: Libellula

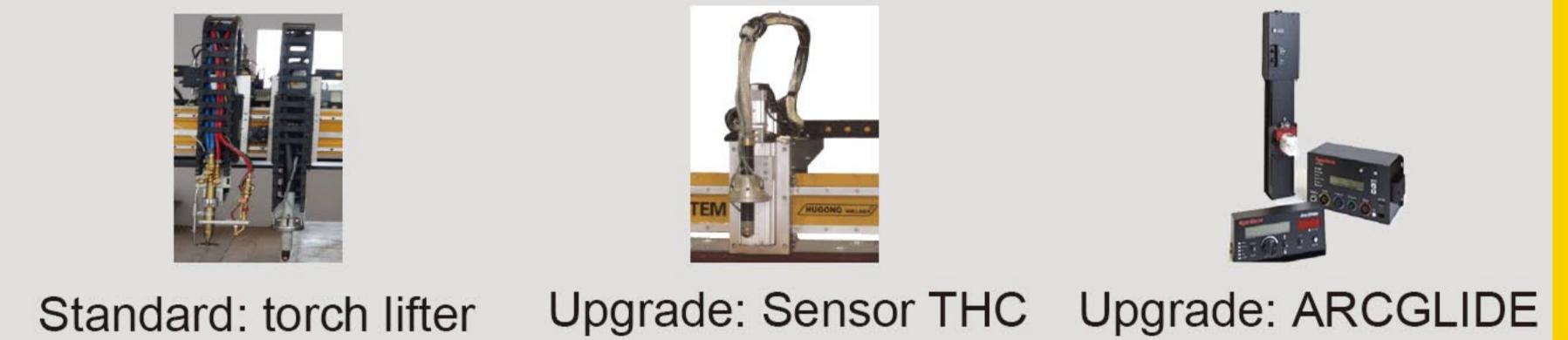
Upgrade: ProNest





Standard: FastCAM





Machine at sites



Principles: ProNest creates high automatic interactions among CNC, THC, gas flow and torch actions.

- Auto Gas Console improves piercing and cutting in quality and speed by changing gas flow timely.
- Parameters in ProNest and CNC reduce IHS time, optimizes lead in/out and cutting speed automatically.

True Hole:25mm diameter and thickness: 1:1



Not true hole



True hole

Rapid part: for small part only 40-50% quicker





With rapid part Without rapid part

CNC FLAME AND PLASMA CUTTING MACHINE

# MAXCUT



# Main components

- CNC controller: American, European and Hugong brand options
- Automatic THC: Hypertherm and Hugong brand options
- Servo motor: Panasonic
- Gear box: Germany brand NEUGART
- Linear rail: TBI or HIWIN
- Relay: Omron
- Breaker: Schneider
- Nesting software options

Australian: FastCAM PRO

American: Hypertherm Turbonest

American: Hypertherm ProNest

American: SigmaNest

# Specification

MAXCUT Cutting model Plasma, Flame 110/220/230/240, 220/380/400/415,50/60 Rail width(mm) 3000-10000 Effective cutting width 1000mm less than rail width(2 CNC torches) Rail length(mm) Customer's requirement, 8000/12000/16000 2500mm less than rail length CNC controller 15" /17" colorful monitor, USB port 1-6 sets Positioning accuracy(mm) ±0.2 Positioning speed(mm/min) Acetylene, Propane, LPG Flame cutting thickness(mm) 50-750 Plasma cutting thickness Due to plasma unit Due to plasma unit Hypertherm: Powermax Series, HSD130, Maxpro200 Compatible plasma unit Victor: Cutmaster Series, AUTOCUT200/300 Hypertherm: HPR130,260,400,800XD High definition plasma unit Victor: Ultracut200,300,400 Kjellburge: Hifocus and Smartfocus series

#### Working process





Option 2

Plasma unit

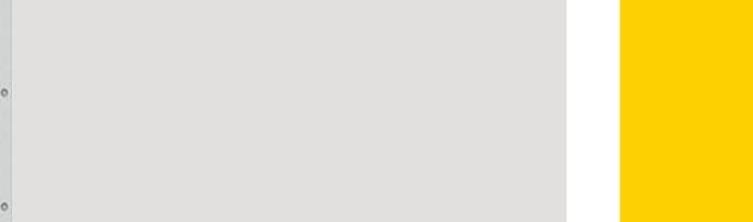
Option 3

**Nesting software** 

Option 4

**Torch Height controller** 





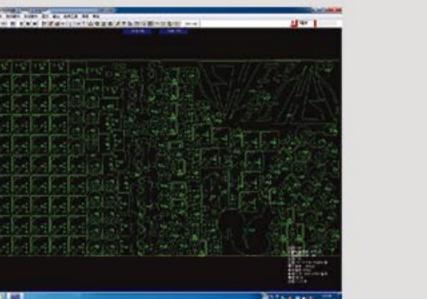
Upgrade: Edge Connect

Maxpro200





XPR300



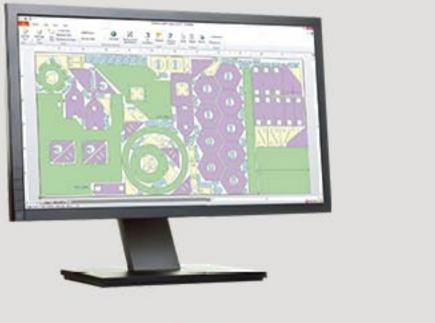
Standard: FastCAM





Standard: torch lifter Upgrade:Sensor THC Upgrade: ARCGLIDE

Machine at sites



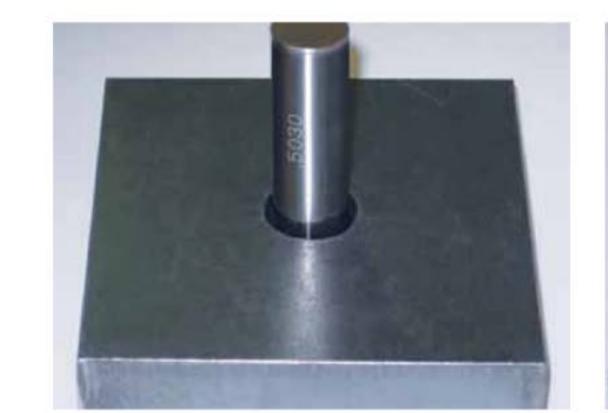




**Principles:** ProNest creates high automatic interactions among CNC, THC, gas flow and torch actions.

- Auto Gas Console improves piercing and cutting in quality and speed by changing gas flow timely.
- Parameters in ProNest and CNC reduce IHS time, optimizes lead in/out and cutting speed automatically.

True Hole:25mm diameter and thickness: 1:1



Not true hole

True hole

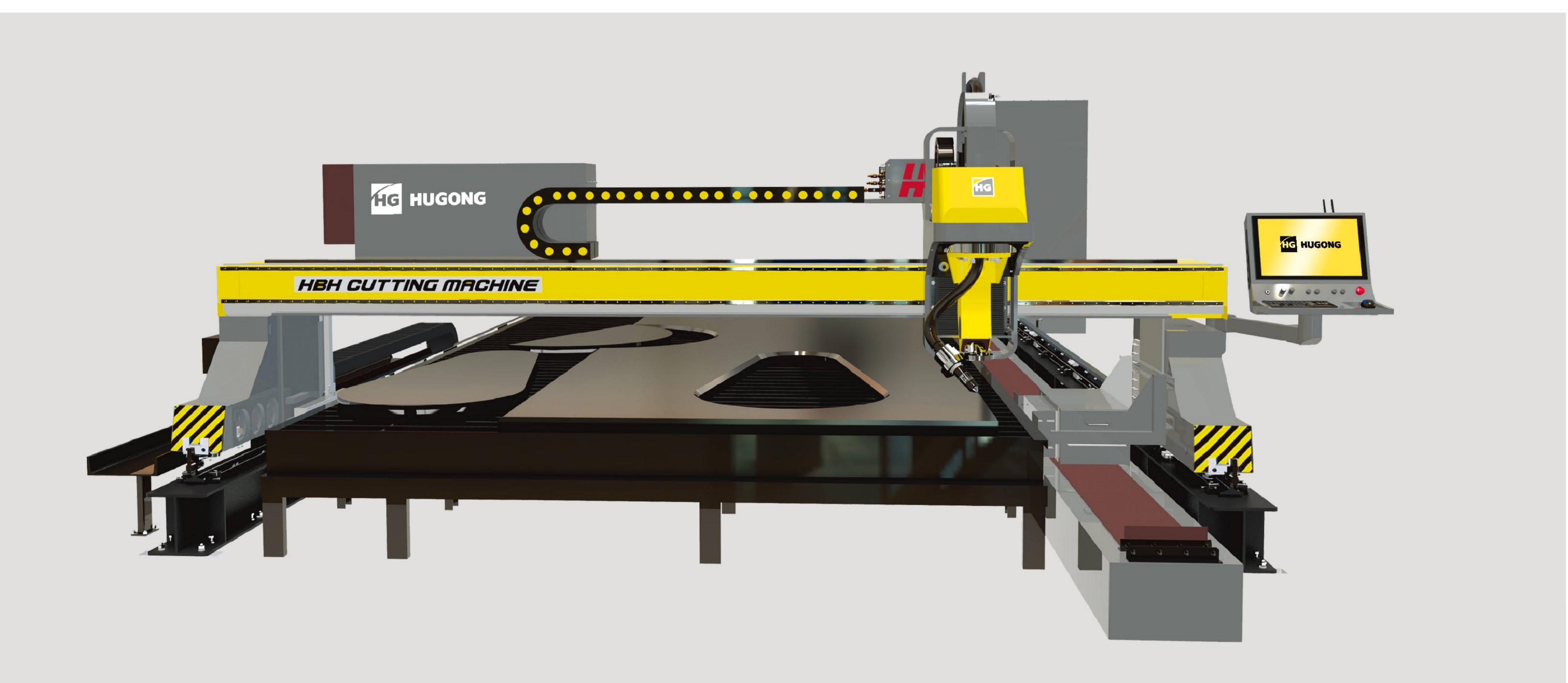




With rapid part Without rapid part

Rapid part: for small part only

# **GSCUT**



### Main components

- Overview: cutting head is designed by HUGONG independently with high precision limit control, There has been a new technical breakthrough on ultra long span flame groove cutting. The machine is equipped with HG620D/A numerical control system with high performance, high stability. It can realize multi-task operation at the same time.
- 360-degree unlimited rotation: This is core technical characteristics. Cutting torch adopts a unique coupling drive groove cutting technology, 360-degree unlimited rotation, which can achieve the effect of 360-degree full line groove cutting.
- High precision groove cutting: Professional and complete callable groove database. Machine can ensure the smooth and efficient cutting process without manual intervention. Front and back groove roughness is small and verticality is good.
- Professional debugging and quality inspection: Senior engineers carry out on-site debugging and performance testing on machine before shipping to ensure product quality.

### Specification

Effective cutting width(mm)	2000-12000
Effective cutting Watth(IIIII)  Effective cutting length(mm)	≥000 12000 ≤70000
Plasma power source	Fine plasma
Driver	·
	Japanese brand
Control system	HG620D/A
Rail	43kg/50kg U71Mn
Journey of cutting torch	150/200/250/300
Travel speed(mm/min)	12000/24000
Speed error	≤±5%
Linear precision on Y axis(mm/10m)	≤±0.2
Diagonal deviation, Side length deviation(mm)	±0.5
Return to origin deviation(mm)	±0.2
Scope of groove	-45°~ + 45°
Type of groove	V/Y/X/K

#### Working process

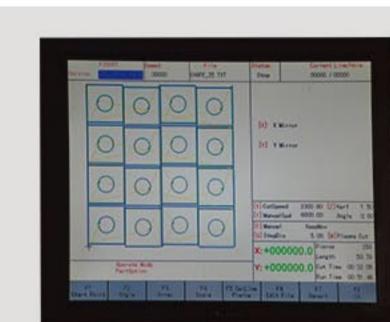




Option 2

Plasma unit







Upgrade: EDGE Connect







Standard: HG613, 17" monitor

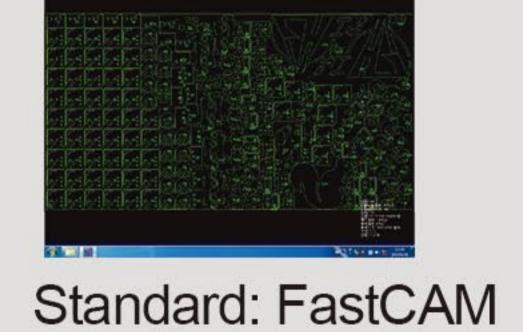


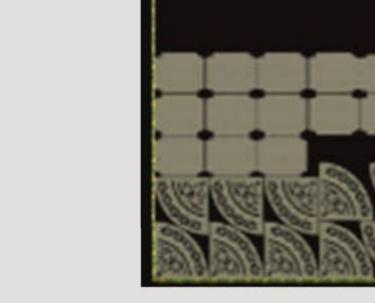


XPR300

Option 3 **Nesting software** 

Option 4



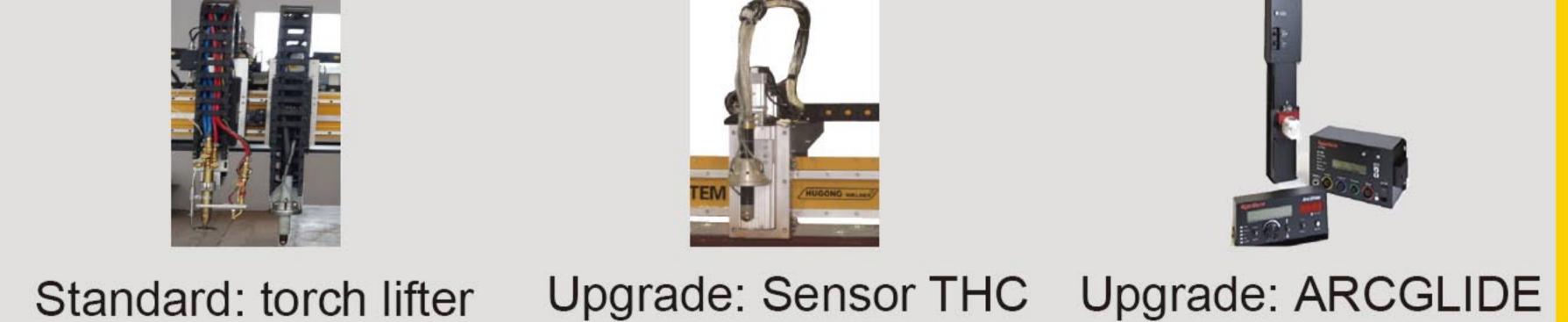


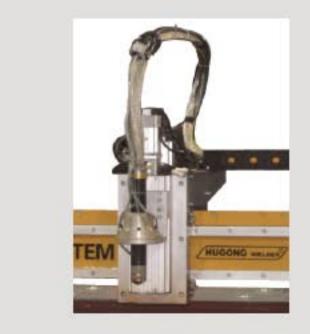


Upgrade: Libellula

Upgrade: ProNest

**Torch Height controller** 







Machine at sites

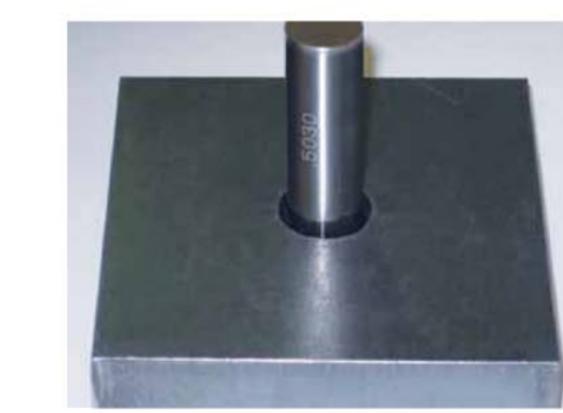






- Auto Gas Console improves piercing and cutting in quality and speed by changing gas flow timely.
- Parameters in ProNest and CNC reduce IHS time, optimizes lead in/out and cutting speed automatically.

True Hole:25mm diameter and thickness: 1:1



Not true hole



True hole

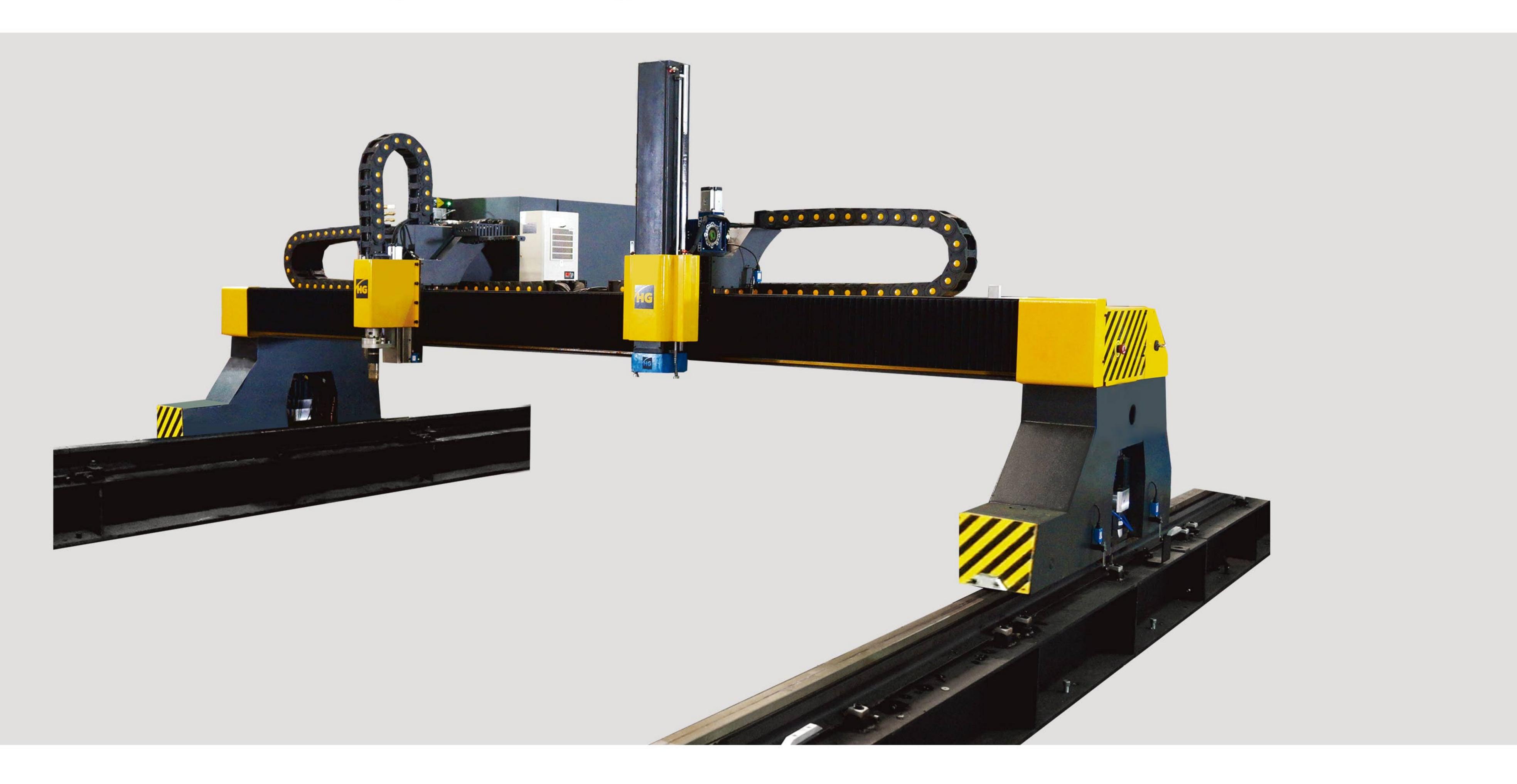




Rapid part: for small part only

With rapid part Without rapid part

# **GS Series Automatic Cutting and Sorting Machine**



# Main components

- Automatic cutting equipment: Shanghai HUGONG automatic cutting and sorting machine overcome the obstacle between traditional cutting and sorting respectively. Machine has been integrating cutting and sorting, covering a smaller area and saving the cost of equipment purchase. Machine adopts full automatic control system, it can automatically complete edge searching, marking, parts cutting, spare material cutting, sorting and other process routes without manual intervention. Advanced lubrication, ventilation system, top high temperature resistant design and independent control center ensure machine can adapt to a variety of harsh field environment, which also greatly improve the operator's workload and working environment, reduce manual sorting and secondary processing production hours, improving work efficiency by more than 50%.
- Automatic function :HG619D/A numerical control system ensures machine can complete APS, APM, APC, ARC, AFC, ACD, APS and other complete cutting process according to needing instructions.
- Automatic monitoring and sorting: Machine is equipped with 360 ° anti-collision mechanism, which is controlled by sensor, that is, if plasma cutting torch is hit in any direction, machine will immediately alarm and stop. Machine is also equipped with automatic sorting device, which can sort the required parts according to cutting code and collect the cutting parts to the designated position, and complete sorting and stacking tasks.
- Tracking service: Before and after delivery of machine, HUGONG will carry out strict quality inspection test according to customer requirements, to ensure the factory performance and quality of machine. HUGONG can send professional after-sales engineers to carry out on-site training on the operating procedures.

# Specification

Effective cutting width(mm)	2000-12000
Effective cutting length(mm)	≤70000
Plasma power source	Due to requirement
Plasma cutting torch	Top brand of industry
Rail	43kg/50kg U71Mn
Journey of cutting torch	150/200/250/300
Travel speed(mm/min)	12000/24000
Speed error	≤±5%
Linear precision on Y axis(mm/10m)	≤±0.2
Diagonal deviation, Side length deviation(mm)	±0.5
Return to origin deviation(mm)	±0.2
Electric automatization	automatic tracing-edge, interlocking, plate confirm
Automatic cutting	OPC-UA interface, MES connecting
Automatic monitoring	360° anti-collision
Automatic sorting	Marking, sorting, stacking

#### Working process



CNC FLAME AND PLASMA CUTTING MACHINE 🐰







Option 1 Controllers

Option 2

Plasma unit

Option 3

**Nesting software** 







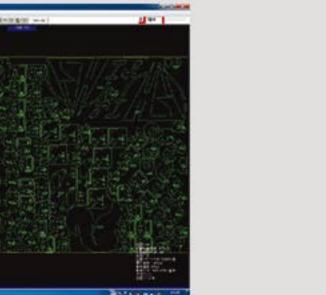
Upgrade: EDGE Connect Standard: HG613, 17" monitor

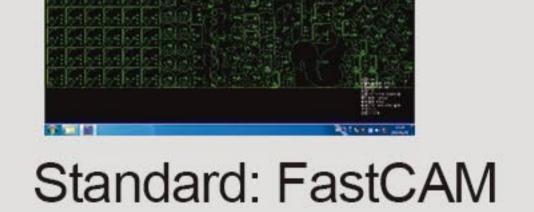




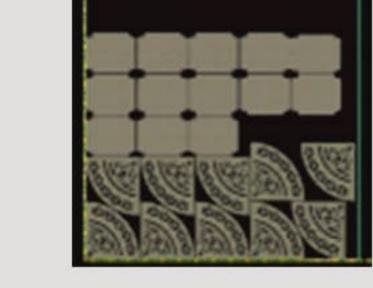


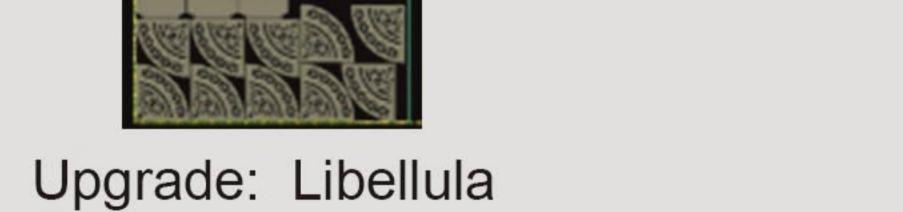
XPR300





Powermax series

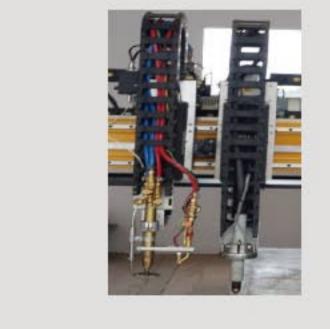




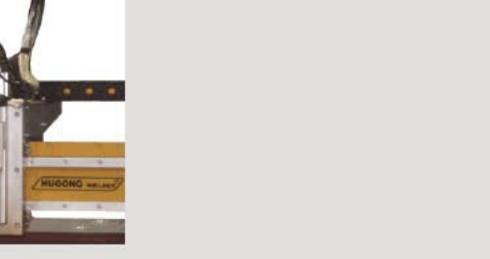


Upgrade: ProNest

Option 4 **Torch Height controller** 





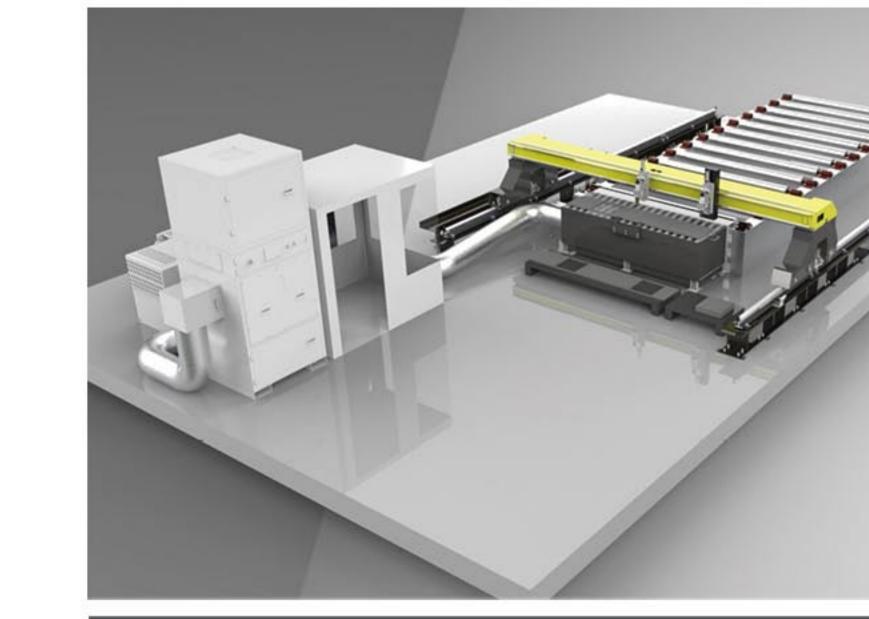


Machine at sites





Standard: torch lifter Upgrade: Sensor THC Upgrade: ARCGLIDE







Automatic scanning correction of steel plate

