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Since 1958

2018-2019 Product Catalog

Total Welding and Cutting Solutions

Publicly Listed on SSE

Stock Code : 603131



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Company vision

To be leading welding and cutting solutions provider

Company information

Shanghai Hugong Electric Group Co., Ltd.

Shanghai Hugong, as the largest welding and cutting manufacturer in China, founded over 60 years of experience in welding and cutting. Publicly listed on main board of Shanghai Exchanging stock, it becomes to be the biggest market value company in its field.

Hugong master the core technology and Hugong delivers its proven, reliable and innovative products globally via 100 countries. Hugong is the NO.1 exporter in China since 2013 till now.

As largest welding and cutting manufacturer, HUGONG offers high quality equipment that services the complete spectrum of welding and cutting needs from DIY to heavy industrial use. It includes 18 series and 2037 SKU.

With Shanghai Hugong's fully comprehensive range of products and strength in digital inverter technology and automation systems, their solutions are widely used in a variety of industries including automotive, offshore, power stations, shipbuilding, the military, pipeline, steel construction, bridge building, pressure vessel production, and general industrial fabrication.

Hugong strives to provide its global consumers with advanced, high quality and competitive "Total Welding and Cutting Solutions".





Sales network

NO.1 welding machine exporter in china The 1st chinese cutting machine producer which founded in 1958

Cover hundreds of countries
Thousands of distributors worldwide
Millions of machines at service

In order to provide customers with a prompt and professional responses, and to ensure high quality service, Shanghai Hugong has built an extensive and integrated service network throughout China and worldwide. We constantly train customer service representatives and engineers, and have implemented systems to oversee the whole process from a request for a repair, though customer review and finally to complaint settlement.

Quality & Standard

ISO9001/ISO14001/ OHSAS 18001

Developed according to international standards, Hugong is fully equipped with the most up to date precision manufacturing equipment with flexible automatic lines, it is managed in accordance with lean production systems, 5S and KAIZAN with an advanced ERP system controlling the whole process, as a result Hugong has attained ISO9001:2008, ISO14001:2008 and OHSAS 18000:2007 approval.



As the leading manufacturer of welding and cutting machines in China, Hugong at the forefront of the development and definition of the national standards for limited load manual TIG power sources and the EMC norms for all welding and cutting products that are approved by **CCC, CE, GS, ROHS, SAA, REACH, CSA**.



Events

Model CG1-60, the first Direct line Gas Cutter in China, came into being in 1958.



The Steel pipe Pile Oxyacetylene Inner Gas Cutter CG2-60 initiated in 1979 (awarded the 2nd Prize by Shanghai Government).

Semi-auto Gas Cutter CG1-30 developed by us in 1964.



The first High Power Steel Preheating Equipment of GYR series initiated in 2000 (patented product).



CNC Flame&Plasma cutting Machine CNC-6000 produced in 1987 (won the first prize for new products in Shanghai).



The First Robot system for H beam production line developed and innovated in 2009.

The First Square Tube CNC Cutting machine developed and innovated in 2011.

The First CNC series large Pipe CNC Cutting machine developed and innovated in 2012.

The First Multi function CNC Cutting machine developed and innovated in 2014.



The First CNC-4a CNC Cutting Machine in China initiated in 1984. (Won the first prize for excellent new products in Shanghai, while awarded the second prize for technological innovation by the National Machinery Commission)



Application

With Hugong's fully comprehensive range of products and strength in digital inverter technology and automation systems, their solutions are widely used in a variety of industries including automotive, offshore, power stations, shipbuilding, the military, pipeline, steel construction, bridge building, pressure vessel production, and general industrial fabrication.



▣ FIBER LASER CUTTING MACHINE



- HGLB3015 FIBER LASER
- HGLA4020 FIBER LASER
- HGLA6020 FIBER LASER
- PLATE-PIPE COMPLEX

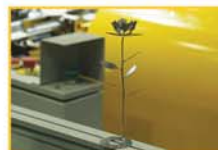


HGLB3015Q



• Benefits:

- Higher reliability achieved from table structure
- Higher accuracy than plasma cutting
- Higher speed than Punching process
- Easy operation, friendly interface
- Lower power consumption than CO2 laser
- Low cost for after-cutting process.
- Lower noise and less dust
- Lower danger to workers
- Options for inventory and job report



HGLB3015E



• Specification

Model	HGLB3015Q	HGLB3015E
Process area(L*W,mm)	1500*3000	1500*3000
Input power(V)	3P, 220/380/400/415	3P, 220V/380V/400V/415V
Positioning accuracy(mm)	0.05	0.05
Repeating accuracy(mm)	0.03	0.03
Max transvers speed(m/min)	80	80
Acceleration(G)	0.8	0.8
Controller interface	Windows	Windows
Monitor	17"	17"
CNC system	Friendess/CYPUT	Friendess/CYPUT
Laser unit	IPG, Raycus, N-light	IPG, Raycus, N-light
Loading weight(kg)	560	560
M.S gas	O ₂	O ₂
S.S gas	N ₂	N ₂
Overall size(mm)	10000*3100*2200	4500*2400*2100
Total weight(kg)	5600	4000

HGLA4020Q



Benefits

- Higher reliability achieved from table structure
- Higher accuracy than plasma cutting
- Higher speed than Punching process
- Easy operation, friendly interface
- Lower power consumption than CO2 laser
- Low cost for after-cutting process.
- Lower noise and less dust
- Lower danger to workers
- Options for inventory and job report



HGLA4020E



Specification

Model	HGLA4020Q	HGLA-4020E
Process area(L*W,mm)	2000X4000	2000X4000
Input power(V)	3P, 220/380/400/415	3P, 220/380/400/415
Positioning accuracy(mm)	0.05	0.05
Repeating accuracy(mm)	0.03	0.03
Max transvers speed(m/min)	80	80
Acceleration(G)	0.8	0.8
Controller interface	Windows	Windows
Monitor	17"	17"
CNC system	Friendess/CYPCUT	Friendess/CYPCUT
Laser unit	IPG, Raycus, N-light	IPG, Raycus, N-light
Loading weight(kg)	1000	1000
M.S gas	O ₂	O ₂
S.S gas	N ₂	N ₂
Overall size(mm)	12000*4530*2200	5900*3200*2100
Total weight(kg)	6800	5000

HGLA6020Q



Benefits

- Higher reliability achieved from table structure
- Higher accuracy than plasma cutting
- Higher speed than Punching process
- Easy operation, friendly interface
- Lower power consumption than CO2 laser
- Low cost for after-cutting process.
- Lower noise and less dust
- Lower danger to workers
- Options for inventory and job report



HGLA6020E



Specification

Model	HGLA6020Q	HGLA-6020E
Process area(L*W,mm)	2000X6000	2000X6000
Input power(V)	3P, 220/380/400/415	3P, 220/380/400/415
Positioning accuracy(mm/m)	0.05	0.05
Repeating accuracy(mm/m)	0.03	0.03
Max transvers speed(m/min)	80	80
Acceleration(G)	0.8	0.8
Controller interface	Windows	Windows
Monitor	17"	17"
CNC system	Friendness/CYPCUT	Friendness/CYPCUT
Laser unit	IPG, Raycus, N-light	IPG, Raycus, N-light
Loading weight(kg)	1500	1500
M.S	O ₂	O ₂
S.S	N ₂	N ₂
Overall size(mm)	16100*4530*2200	7900*3200*2100
Total weight(kg)	9800	5500

Plate-pipe complex



Benefits

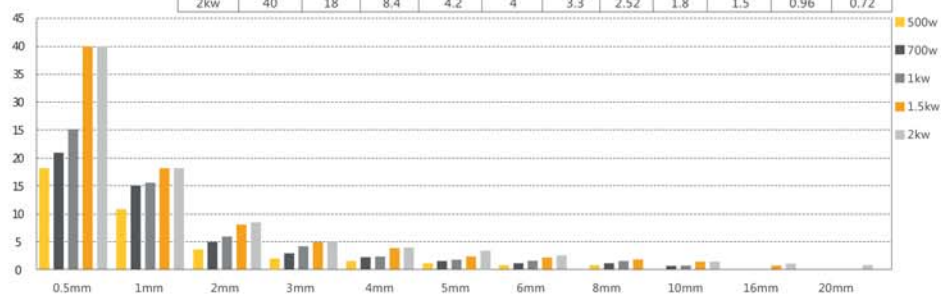
- Higher reliability achieved from table structure
- Higher accuracy than plasma cutting
- Higher speed than Punching process
- Easy operation, friendly interface
- Lower power consumption than CO₂ laser
- Low cost for after-cutting process.
- Lower noise and less dust
- Lower danger to workers
- Options for inventory and job report

Specification

Model	HGLB3015E	HGLB6015E
Process area(L*W,mm)	1500X3000	1500X6000
Pipe size(mm)	φ40-250	φ40-250
Tube size	40-160	40-160
Input power(V)	3P, 220/380/400/415	3P, 220/380/400/415
Positioning accuracy(mm/m)	0.05	0.05
Repeating accuracy(mm/m)	0.03	0.03
Max transvers speed(m/min)	80	80
Acceleration(G)	0.8	0.8
Controller interface	Windows	Windows
Monitor	17"	17"
CNC system	Friendess/CYPCUT	Friendess/CYPCUT
Laser unit	IPG, Raycus, N-light	IPG, Raycus, N-light
Loading weight(kg)	560	1120
M.S gas	O ₂	O ₂
S.S gas	N ₂	N ₂
Overall size(mm)	4500*3200*1800	7500*3200*1800
Total weight(kg)	4000	5500

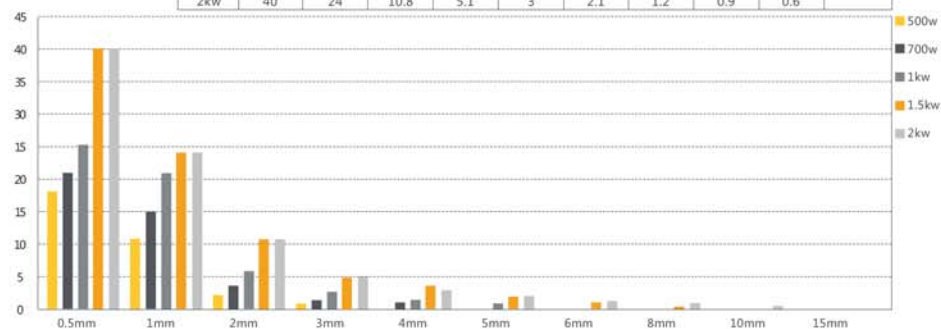
● MS: cutting speed

	0.5mm	1mm	2mm	3mm	4mm	5mm	6mm	8mm	10mm	16mm	20mm
500w	18	10.8	3.6	2.1	1.5	1.08	0.72				
700w	21	15	4.8	3	2.1	1.44	1.08	0.78	0.6		
1kw	25.2	15.6	6	4.2	2.4	1.8	1.56	1.08	0.72		
1.5kw	40	18	8	5.5	3.8	2.4	2.1	1.65	1.35	0.72	
2kw	40	18	8.4	4.2	4	3.3	2.52	1.8	1.5	0.96	0.72



● SS: cutting speed

	0.5mm	1mm	2mm	3mm	4mm	5mm	6mm	8mm	10mm	15mm
500w	18	10.8	2.1	0.96						
700w	21	15	3.6	1.5	1.08					
1kw	25.2	21	6	2.7	1.5	0.9				
1.5kw	40	24	10.8	5	3.6	2	1	0.4		
2kw	40	24	10.8	5.1	3	2.1	1.2	0.9	0.6	



● Fiber laser unit



IPG YLS series fiber laser



IPG YLR series fiber laser



Raycus fiber laser

● Cutting head



RAYTOOLS BT240



RAYTOOLS BM110



Precitec Procutter

Consumables



Collimator



Focusing lens



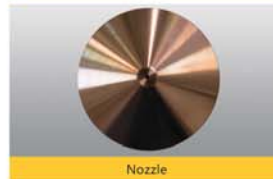
Protection lens



Ceramic ring



Seal ring



Nozzle

Auxiliary device



Chiller



UPS(Uninterruptible Power System)



Dust extractor



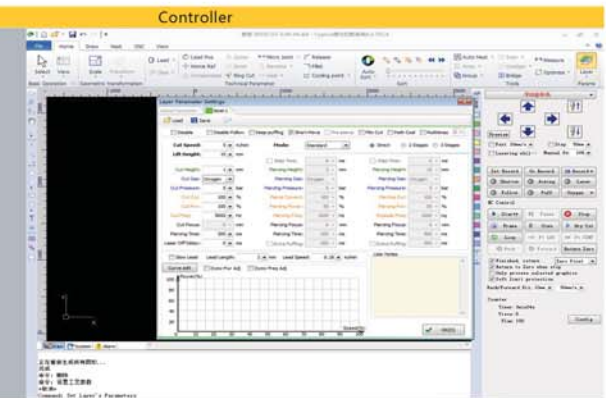
Automatic lubricator



Voltage regulator

CNC

- Professional CNC for fiber laser
- Integrated, reliable, functional and smart
- Economic and functional, easy operation and learn
- Rich cutting parameters
- English and Chinese windows interfaces
- Smart interfaces
- Various parameter sets for various requests



Nesting software (Option)

- An Italy brand, Libellula
- Specialized in CAD/CAM application
- Quick input/output DXF/DWG
- Built-in many parameter model
- Simple program guideline
- Simulation to verify program

PORTABLE CNC FLAME AND PLASMA CUTTING MACHINE



- INTECUT 3 4 5
- INTECUT-B
- INTECUT-S
- INTECUT-C

INTECUT



Description

- INTECUT is strong alloy structure to achieve portable and reliable purpose.
- Installation can be finished in 30 minutes.
- CNC is with 7" colorful display and interfaces, English, Russian, Spanish, Portuguese, French, Danish, Korean and Chinese language.
- 44 shapes are in CNC library. It is easy for user to choose and set parameters.
- Functions are for both flame and plasma cutting.
- Program are built in for improving cutting quality, includes speed, pierce time, pulse, motions, etc.
- Easy exchanging is between flame and plasma cutting model.
- USB port for inputting and outputting programs.
- Compatible for nesting software, FastCAM, MTC, Pronest LTS, etc. Drawings from AUTOCAD, TEKLA and SOLIDWORKS are easily used.

Specification

Model	INTECUT 3	INTECUT 4	INTECUT 5
Input voltage(V)	220(Customised voltage is available)		
Frequency(Hz)	50 or 60		
Input power(W)	180		
Monitor	LCD 5.7" with keyboard		
Effective cutting size(W*L)	1220*2000	1220*3000	1500*3000
Position speed(mm/min)	Idle speed: 0-6000		
Flame cutting speed(mm/min)	Cutting speed: 6-750		
Transverse arm(mm)	2000	2000	2300
Rail length(mm)	2500	4000	4000
Total weight(Kg)	130	145	160
Cutting mode	Flame/Plasma		
Cutting gas	Acetylene, Propane, LPG-O2		

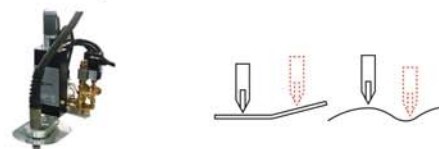
Working process



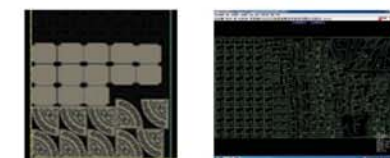
Controller



Automatic torch height controller



Nesting software-for reference



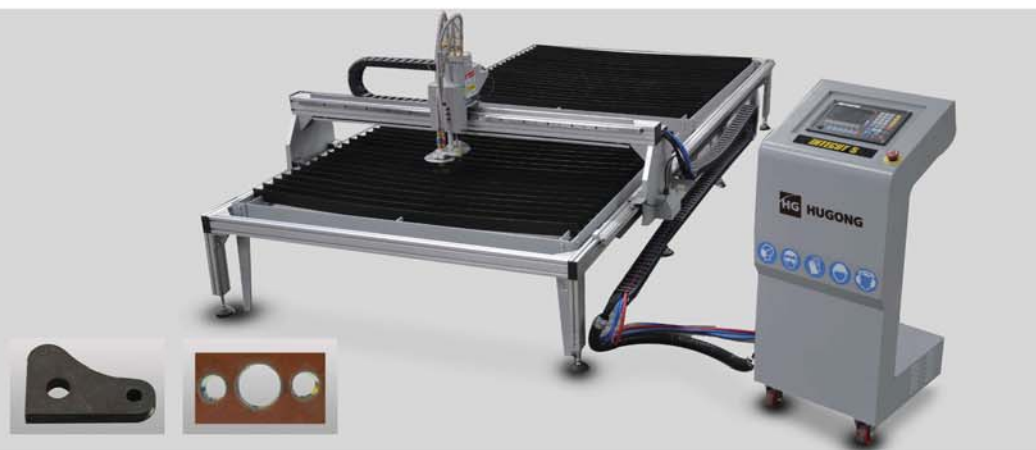
Upgrade : cut pipe



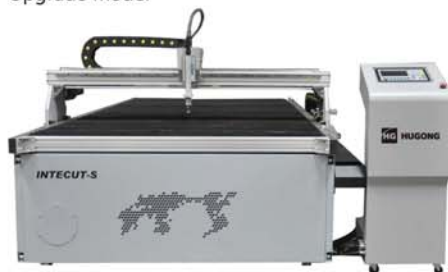
Machine at sites



INTECUT-S



Upgrade model



● Specification

Model	INTECUT-S
Power supply	1PH, 220V, 50HZ (Customised voltage is available)
Input capacity(W)	180
Controller displayer	7" LCD, colorful
Cutting width(mm)	1500
Cutting length	3000mm, 4000mm, Customised length is available
Cutting model	Flame or Plasma
Positioning speed(mm/min)	5000
Flame cutting thickness(mm)	80
Flame cutting speed(mm/min)	100-750
Oxygen pressure	≤1.5Mpa
Cutting gas	LPG, Propane, Acetylene
Plasma	Up to 125A, Highly recommend Hypertherm/Victor to achieve good quality
Nesting software	FastCAM/Pronest

Working process



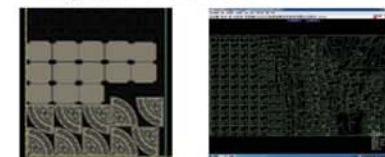
Controller



Automatic torch height controller



Nesting software-for reference



Fast installation



Quick connection



Machine at sites



CNC FLAME AND PLASMA CUTTING MACHINE



- INTECUT-HT
- FLASHCUT
- CNCT
- ECONOCUT
- HGCUT
- MAXCUT
- STRZPCUT

INTECUT-HT



Description

- Steel structure table body to ensure durability 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	INTECUT-HT
Power supply(V,HZ)	1PH, 220V, 50HZ(Customised)
Input capacity(W)	180
Controller display	7" LCD, colorful
Effective Cutting width(mm)	1500
Effective Cutting length(mm)	3000
Installation space(mm)	2700x4500
Cutting model	Plasma
Plasma model	up to 105A, highly recommend HP
Nesting software	FastCAM, Libellula, Hypertherm

Working process



Controller



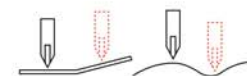
Automatic torch height controller



Nesting software-for reference



Quick connection



Machine at sites



FLASHCUT



Description

- Steel structure table body to ensure durability 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" display, 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, Pronest
Optional 3(mm)	Special for 1-3

Working process

Option 1
Controllers

Standard: HG612T, 7" monitor



Upgrade: stand alone CNC, 17" monitor

Option 2
Plasma unit

Powermax series



Maxpro200

Option 3
Nesting software

Standard: FastCAM Pro



Upgrade: Libellula



Upgrade: ProNest2017 LTS

Option 4
Torch Height controller

Standard



option : plate rider for 1-3mm

Machine at sites



CNCT



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
 - American: Hypertherm Pronestit
 - American: Hypertherm LTS
 - American: SigmaNest

Specification

Model	CNCT
Power supply(V,Hz)	110/220/230/240, 220/380/400/415, 50/60
Input capacity(KW)	3
Cutting width(mm)	1500, 2000
Cutting length(mm)	3000, 4000, 5000, 6000
CNC controller	Hypertherm or Hugong brand
CNC controller	15"/17" colorful monitor, USB port
Cutting model	Plasma (Flame is optional)
Travel speed(mm/min)	12,000
Accuracy(mm)	Positioning: 0.5/1000, Repeatability: 0.2/1000
Torch height controller	ARC voltage THC
Plasma options	Powermax series, Maxpro200, HPRXD
Nesting software	Optional
Machine size(mm)	4500*2700*1600

Working process



Option 1 Controllers



Option 2 Plasma unit



Option 3 Nesting software



Option 4 Torch Height controller



ECONOCUT



Main components

- 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

Model	ECONOCUT
Input Voltage(V)	110/220/230/240V, 220/380/400/415V, 50/60HZ
Rail distance (mm)	2500/3000/3500/4000
Effective cutting width(mm)	600mm less than rail distance
Rail length(mm)	Customer's requirement or 6000, 8000, 10000, 12000
Effective cutting length(mm)	1500mm less than rail length
CNC torch (piece)	1-2
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



Option 1 Controllers



Standard: HG616, 10" monitor



Upgrade: stand alone CNC, 17" monitor



Option 2 Plasma unit



Powermax series



Maxpro200

Option 3 Nesting software



Standard: FastCAM



Upgrade: Libellula



Upgrade: ProNest2017 LTS

Option 4 Torch Height controller



Standard torch lifter



Upgrade: separate lifter

Machine at sites



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)	±0.5/1000
Repeating accuracy(mm)	±0.2/1000
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



- 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



With rapid part

Without rapid part

40-50% quicker

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

Model	MAXCUT
Cutting model	Plasma, Flame
Input voltage(V,Hz)	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
Effective cutting length	2500mm less than rail length
CNC controller	15" /17" colorful monitor, USB port
CNC torches	1-6 sets
Positioning accuracy(mm)	±0.5/1000
Repeating accuracy(mm)	±0.2/1000
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, HSD130, Maxpro200 Victor: Cutmaster Series, AUTOCUT200/300 Hypertherm: HPR130, 260, 400, 800XD Victor: Ultracut200, 300, 400
High definition plasma unit	Kjellborge: Hifocus and Smartfocus series

Working process

Option 1
Controllers

Standard: Micro Edge Pro



Upgrade: Edge Pro



Upgrade: Edge Connect

Machine at sites

Option 2
Plasma unit

Maxpro200



HPR130XD 260XD



XPR300

Option 3
Nesting software

Standard: FastCAM



Upgrade: Libellula



Upgrade: ProNest2017 LTS

Option 4
Torch Height controller

Standard: torch lifter



Upgrade: Sensor THC



Upgrade: ARCGLIDE

- 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



With rapid part

Without rapid part

40-50% quicker

STRIPCUT



Main components

- It is featured to cut strips
- Strong steel structure gantry to support durability
- Supplied with easy control box
- Motor is DC motor
- Torch quantity on Y can be optional
- 1 torch is on X
- Manual adjustment is on space between 2 torches Steel ruler is for adjustment accurately
- Manual adjustment for torch height control

Specification

Gantry	STRIPCUT
Power Voltage(V)	110/220/230, 1 phase
Effective Cutting Width (mm)	X
Effective Cutting length (mm)	Y-2000mm
Rail with(mm)	X
Rail length(mm)	Y
Maximum speed(mm/min)	8000
Strip cutting torch	as customer request
Horizontal torch	1 set
Minimun strip width(mm)	80
Max cutting thickness by 1 torch(mm)	6-150m
Max cutting thickness by 9 torch	Standard 25mm or customised
Max cutting thickness by more torch	to be confirmed
Flame Cutting gas	Acetylene, Propane, LPG - O2

GO2 for Acetylene Fuel gas

Specification

Tip No.	Bore diameter (mm)	Cutting thickness (mm)	Cutting speed (mm/min)	Gas pressure Mpa		Gas consumption	
				OXY	Ac	OXY(m ³ /h)	Ac(m ³ /h)
0 0	0.8	5-10	600-450	0.2-0.3	> 0.03	0.9-1.3	340
0	1.0	10-20	480-380	0.2-0.3	> 0.03	1.3-1.8	340
1	1.2	20-30	400-320	0.25-0.35	> 0.03	2.5-3	470
2	1.4	30-50	350-280	0.25-0.35	> 0.03	3-4	470
3	1.6	50-70	300-240	0.3-0.4	> 0.04	4.5-6	620
4	1.8	70-90	260-200	0.3-0.4	> 0.04	5.5-7	620
5	2.0	90-120	210-170	0.4-0.6	> 0.04	8.5-10.5	620
6	2.4	120-160	180-140	0.5-0.8	> 0.05	12-15	780
7	2.8	160-200	150-110	0.6-0.9	> 0.05	21-24.5	1000
8	3.2	200-270	120-90	0.6-1.0	> 0.05	26.5-32	1000
9	3.6	270-350	90-60	0.7-1.1	> 0.05	40-45	1300
10	4.0	350-400	70-50	0.7-1.2	> 0.05	50-58	1600



GO3 for Propane and LPG fuel gas

Specification

Tip No.	Bore diameter (mm)	Cutting thickness (mm)	Cutting speed (mm/min)	Gas pressure Mpa		Gas consumption	
				OXY	Ac	OXY(m ³ /h)	Ac(m ³ /h)
0 0	0.8	5-10	600-450	0.2-0.3	> 0.03	0.9-1.3	340
0	1.0	10-20	480-380	0.2-0.3	> 0.03	1.3-1.8	340
1	1.2	20-30	400-320	0.25-0.35	> 0.03	2.5-3	470
2	1.4	30-50	350-280	0.25-0.35	> 0.03	3-4	470
3	1.6	50-70	300-240	0.3-0.4	> 0.04	4.5-6	620
4	1.8	70-90	260-200	0.3-0.4	> 0.04	5.5-7	620
5	2.0	90-120	210-170	0.4-0.6	> 0.04	8.5-10.5	620
6	2.4	120-160	180-140	0.5-0.8	> 0.05	12-15	780
7	2.8	160-200	150-110	0.6-0.9	> 0.05	21-24.5	1000
8	3.2	200-270	120-90	0.6-1.0	> 0.05	26.5-32	1000
9	3.6	270-350	90-60	0.7-1.1	> 0.05	40-45	1300
10	4.0	350-400	70-50	0.7-1.2	> 0.05	50-58	1600



☑ CNC PIPE / TUBE CUTTING MACHINE



- CNCG LIGHT PIPE CUTTING MACHINE
- CNCG PIPE CUTTING MACHINE
- CNCGF TUBE CUTTING MACHINE

ECONOPIPE



Description

- A professional and economic pipe cutter
- Easy installation
- Strong steel structure
- Friendly interface, easy operation
- Supply with easy and economic software
- Flame and Plasma options
- Portable machine, good for contract based production
- FreePIPE functions
- Input existing drawings
- Modify drawings easily
- Optimize drawing details
- Generate G-codes

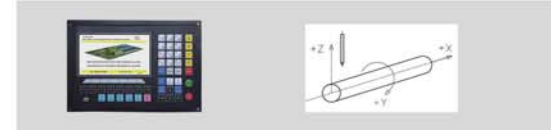
Specification

Model	ECONOPIPE
Cutting process	Plasma, Flame
Input voltage(V.Hz)	110/220/230/240, 220/380/400/415, 50/60
Pipe diameter(mm)	60-315
Pipe length(mm)	3000, 6000
Loading capacity(mm,Kg)	3000mm length: Thickness:15, Weight:500
CNC controller	HG823
Axis	3 axis
Motor	Servo motor
Positioning accuracy(mm)	±0.5/1000
Repeating accuracy(mm)	±0.2/1000
Positioning speed(mm/min)	6,000
Plasma power source	Hypertherm: Powermax 45, 65, 85, 105, 125
Flame cutting gas	Acetylene, Propane, LPG - O2
Nesting software	Free pipe

ECONOPIPE working process



Controller



OPTION: HG822, TOUCH SCREEN



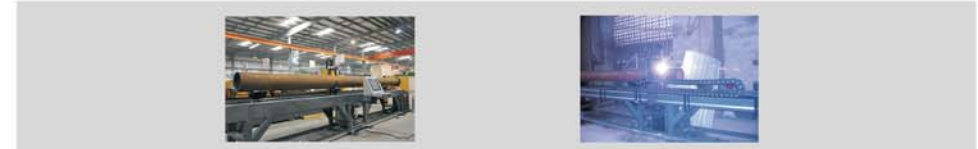
FreePIPE software



Mechanical parts



Machine at sites



HGPIPE-III



Description

- A professional and economic pipe cutter
- Easy installation
- Strong steel structure
- Friendly interface, easy operation
- Supply with easy and economic software
- Flame and Plasma options
- Portable machine, good for contract based production
- FreePIPE functions
- Input existing drawings
- Modify drawings easily
- Optimize drawing details
- Generate G-codes

Specification

Model	HGPIPE-III
Cutting process	Plasma, Flame
Input voltage(V/Hz)	110/220/230/240, 220/380/400/415.50/60
Pipe diameter(mm)	60-1500
Pipe length(mm)	3000, 6000, 12000, 20000
CNC controller	HG823
Axis	3 axis
Motor	Step motors
Positioning accuracy(mm)	±0.5/1000
Repeating accuracy(mm)	±0.2/1000
Positioning speed(mm/min)	6,000
Plasma power source	Hypertherm: Powermax series MAXPRO200, HPR260, XPR300, HPR400
Flame cutting gas	Acetylene, Propane, LPG - O2
Nesting software	Free pipe

HGPIPE-III working process



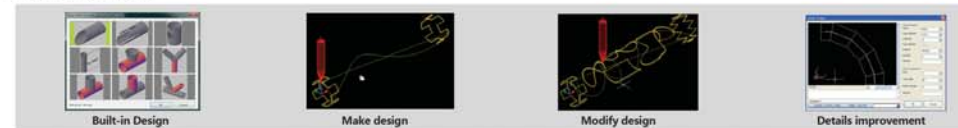
Controller



OPTION: HG812, TOUCH SCREEN



FreePIPE software



Mechanical parts



Machine at sites



HGPIPE-IV, V, VI



● Description

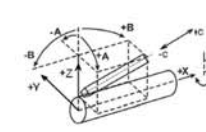
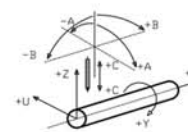
- A professional and economic pipe cutter
- Easy installation
- Strong steel structure
- Friendly interface, easy operation
- Supply with easy and economic software
- Flame and Plasma options
- Portable machine, good for contract based production
- FreePIPE functions
- Input existing drawings
- Modify drawings easily
- Optimize drawing details

● Specification

Model	HGPIPE-IV V
Cutting process	Plasma, Flame
Input voltage(V.Hz)	110/220/230/240, 220/380/400/415, 50/60
Pipe diameter(mm)	60-1200
Pipe length(mm)	3000, 6000, 12000, 20000
CNC controller	HG812
Axis	4, or 5, or 6
Motor	Servo motor
Positioning accuracy(mm)	±0.5/1000
Repeating accuracy(mm)	±0.2/1000
Positioning speed(mm/min)	6,000
Plasma power source	Hypertherm: MAXPRO200, HPR260, XPR300, HPR400
Flame cutting gas	Acetylene, Propane, LPG - O2

1. Controller : HG812, English and Chinese

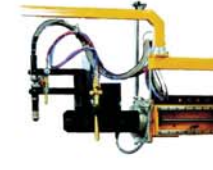
Option for 6 axis



2. Design built-in controller



3. Mechanical parts



MAXPIPE



Description

- A machine for heavy cutting job
- For beveling cutting purpose specially
- Ready for 3,4,5,6 axis cutting
- Controller is Windows system, with mouse/keyboard
- 512MB memory, 120G Hard disk
- USB ports on controller
- With built-in designs
- With plasma options for various wall thickness
- Electrical cabinet is for heavy duty jobs
- Machine is equipped with servo motors
- Trolley structure for quick positioning
- Flexible swing device for beveling cutting
- Used in offshore, oil industry, construction, shipyard, fabrication, etc.

Specification

Model	MAXPIPE
Cutting process	Plasma, Flame
Input voltage(V.Hz)	110/220/230/240, 220/380/400/415, 50/60
Pipe diameter(mm)	300-1500
Pipe length(mm)	3000, 6000, 12000, 20000
Loading capacity(mm.Kg)	3000 length: Thickness:15, Weight:500
CNC controller	HG812
Axis	4, or 5, or 6
Motor	Servo motor
Positioning accuracy(mm)	±0.5/1000
Repeating accuracy(mm)	±0.2/1000
Positioning speed(mm/min)	6,000
Plasma power source	Hypertherm: MAXPRO200, HPR260, XPR300, HPR400
Flame cutting gas	Acetylene, Propane, LPG - O ₂

HGTUBE

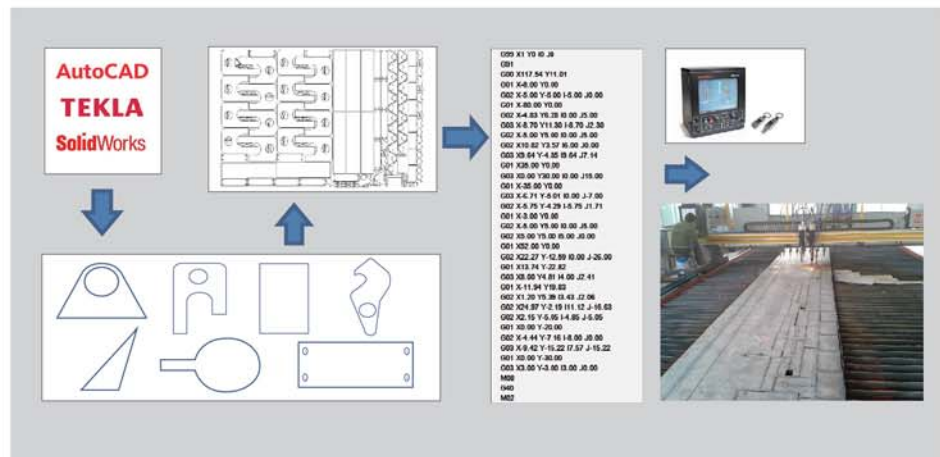


Description

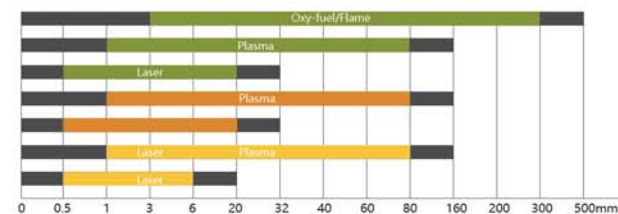
- A technical and economic choice square pipe cutting process.
- Machine can be designed to have X, Y, Z, A, B, U and C axis.
- Strong trolley structure or beam structure ensures durability, stability and quick speed.
- CNC controller gives screen of 15", English and other language.
- CNC Controller gives easy operation interface, shape library and cutting parameters programs.
- 10 shapes designed are built in controller.
- USB terminal is to supporting program and data inputting and outputting.
- CNC controller supports mouse and keyboard for easy operation.
- It is compatible to pipe nesting software Fastframe and other brands nesting softwares.
- Electric motor torch height controller adjusts both flame and plasma torch height.
- A sensor for C axis to sense ovality. Torch height can be adjust quickly to achieve best cutting process.
- Auto ignition device and flash arrestor on flame torch.
- Plasma power source from 45A to 400A, oxy-fuel cutting by propane, acetylene, methane and LPG.
- For industries requesting quick speed and high precision cutting in tough working environment.
- Typical users are shipyard, fabricator, oil industry, heavy machinery, accurate cutting service suppliers, etc.

Specification

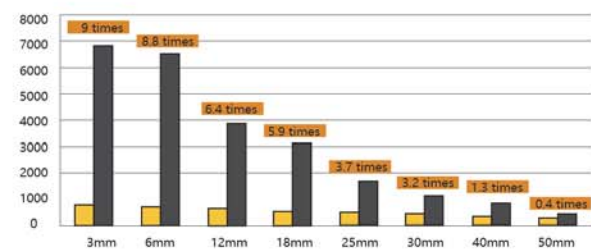
Model	HGTUBE
Power Voltage	220V/380V, Customised voltage
Circle tube outside diameter(mm)	≤ 60-41000
Square tube outside diameter(mm)	200x200-400x400
Max loading capacity(Kgs)	5000
Cutting thickness(mm)	5-80
Material:	Mild steel (Stainless steel and aluminum alloy need plasma cutter)
Flame Cutting speed(mm/min)	100-750
Plasma Cutting speed(mm/min)	500-5000
Numbers of control axis	5, 6, 7
Flame Cutting Gas	Acetylene, Propane, Natural gas, Propylene



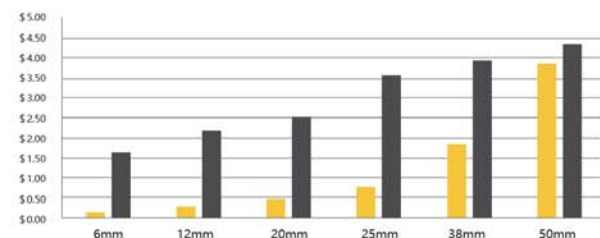
Plasma, Laser and Oxy-fuel cutting thickness



- Mild steel
- Stainless steel
- Aluminium

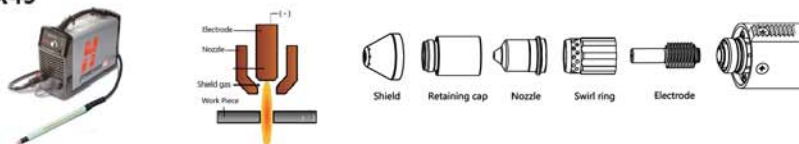


■ 260A plasma cutting
■ Oxy-fuel cutting



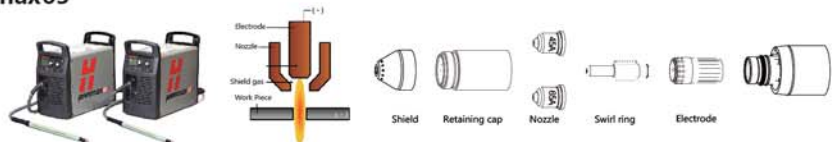
Cutting cost comparison between Plasma and Oxy-fuel
Cost for cutting 1m (3.3 feet) power cost, gas cost and consumables.
Labor cost is excluded. Savings for dross treatment is excluded

Powermax45



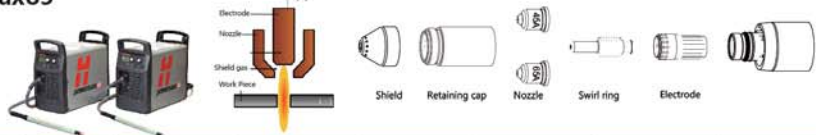
Specs	Thickness(mm)	"Shield/Deflector Life time (32 hour)"	"Retaining cap Life time (960 hour)"	"Nozzle Life time (6 hour)"	"Swirl ring Life time (720 hour)"	"Electrode Life time (6 hour)"	Auxiliary gas
45A	1mm-10mm	220673	220713	220671	220670	220669	Air/Air
10A	1mm	420542	220854	420415	220857	220842	Air/Argon

Powermax65



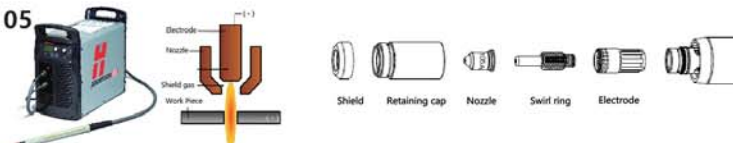
Specs	Thickness(mm)	"Shield/Deflector Life time (32 hour)"	"Retaining cap Life time (960 hour)"	"Nozzle Life time (6 hour)"	"Swirl ring Life time (720 hour)"	"Electrode Life time (6 hour)"	Auxiliary gas
45A	1mm-6mm	220817	220854	220941	220857	220842	Air/Air
65A	2mm-16mm	220817	220854	220819	220857	220842	Air/Air
Fine cut	0.5mm-4mm	220948	220953	220930	220842	220857	Air/Air

Powermax85



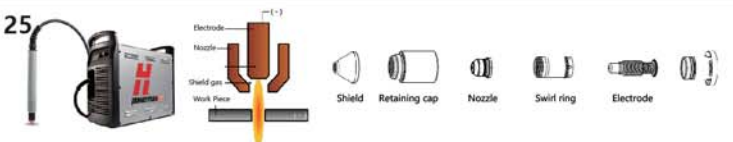
Specs	Thickness(mm)	"Shield/Deflector Life time (32 hour)"	"Retaining cap Life time (960 hour)"	"Nozzle Life time (6 hour)"	"Swirl ring Life time (720 hour)"	"Electrode Life time (6 hour)"	Auxiliary gas
45A	1mm-6mm	220817	220854	220941	220857	220842	Air/Air
65A	2mm-16mm	220817	220854	220819	220857	220842	Air/Air
85A	3mm-18mm	220817	220854	220816	220857	220842	Air/Air
Fine cut	0.5mm-4mm	220948	220953	220930	220842	220857	Air/Air

Powermax105



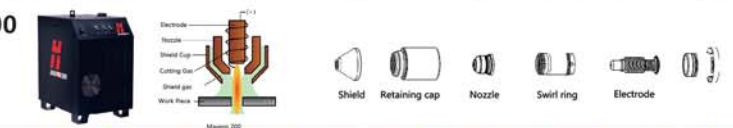
Specs	Thickness(mm)	"Shield/Deflector Life time (35 hour)"	"Retaining cap Life time (960 hour)"	"Nozzle Life time (5 hour)"	"Swirl ring Life time (720 hour)"	"Electrode Life time (5 hour)"	Auxiliary gas
45A	0.5mm-6mm	220817	220854	220941	220994	220842	Air/Air
65A	2mm-16mm	220817	220854	220819	220994	220842	Air/Air
85A	3mm-18mm	220817	220854	220816	220994	220842	Air/Air
105A	6mm-20mm	220993	220854	220990	220994	220842	Air/Air
Finecut	0.5mm-4mm	220948	220953 (1440 hour)	220930	220994	220842	Air/Air

Powermax125



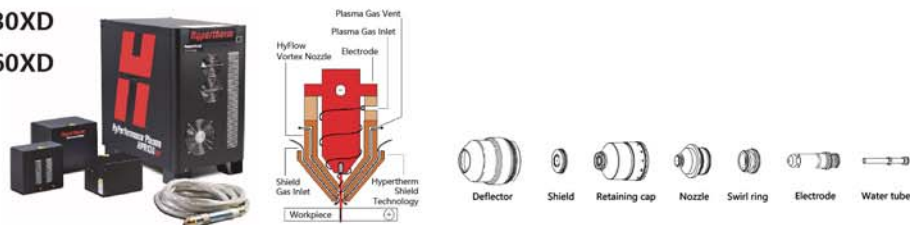
Specs	Thickness(mm)	"Shield/Deflector Life time (35 hour)"	"Retaining cap Life time (1440 hour)"	"Nozzle Life time (5 hour)"	"Swirl ring Life time (720 hour)"	"Electrode Life time (5 hour)"	Auxiliary gas
45A	1mm-6mm	420168	220977	420158	220997	220971	Air/Air
65A	2mm-8mm	420168	220977	420169	220997	220971	Air/Air
105A	6mm-20mm	220976	220977	220975	220997	220971	Air/Air
125A	6mm-25mm	220976	220977	220975 (4 hour)	220997	220971 (4 hour)	Air/Air
Finecut	0.5mm-4mm	420152	220977	420151 (4 hour)	420159	220971 (4 hour)	Air/Air

MAXPRO200



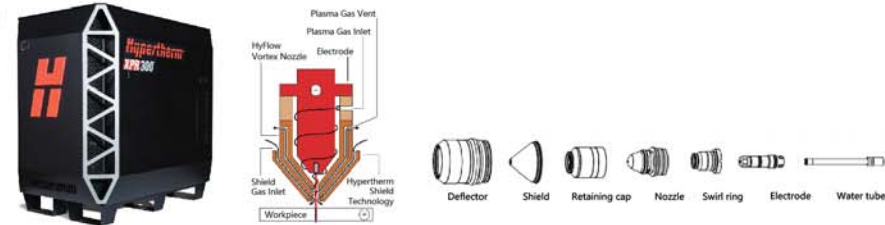
Specs	Thickness(mm)	"Shield/Deflector Life time (40 hour)"	"Retaining cap Life time (800 hour)"	"Nozzle Life time (5.5 hour)"	"Swirl ring Life time (240 hour)"	"Electrode Life time (5.5 hour)"	"Water tube Life time (2400 hour)"	Auxiliary gas
50A	0.5mm-6mm	220532	220935	220890	220529	220528	220521	Air/Air
50A	0.5mm-6mm	220532	220935	220891	220529	220528	220521	O2/Air
130A	3mm-32mm	220536	220935	220892	220488	220487	220521	Air/Air
130A	3mm-38mm	220491	220935	220893	220488	220487	220521	O2/Air
130A	5mm-20mm	220536	220935	220892	220529	020415	220521	N2/N2
200A	6mm-50mm	420045	220935	420044	220488	220937	220521	Air/Air
200A	6mm-50mm	220832	220935	220831	220834	220937	220521	O2/Air
200A	5mm-38mm	420045	220935	420044	220529	020415	220521	N2/N2

HPR130XD HPR260XD

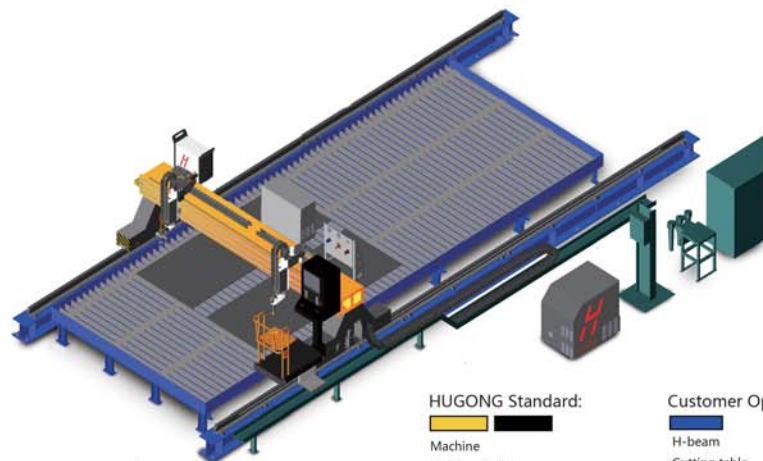


Specs	Thickness(mm)	"Shield/Deflector Life time (2400 hour)"	"Shield Life time (48 hour)"	"Retaining cap Life time (720 hour)"	"Nozzle Life time (8 hour)"	"Swirl ring Life time (240 hour)"	"Electrode Life time (8 hour)"	"Water tube Life time (2400 hour)"	Auxiliary gas
30A	0.5mm-6mm	220747	220194	220754	220193	220180	220192	220340	O ₂ /O ₂
45A	1.2mm-6mm	220747	220202	220756	220201	220180	220308	220340	Air/Air
45A	0.8mm-4mm	220747	220202	220755	220201	220180	220308	220340	N ₂ /N ₂
45A	0.8mm-4mm	220747	220202	220755	220201	220180	220308	220340	F ₅ /N ₂
50A	0.8mm-8mm	220747	220555	220754	220554	220553	220552	220340	O ₂ /O ₂
80A	4mm-10mm	220747	220338	220755	220337	220179	220339	220340	F ₅ /N ₂
80A	2mm-12mm	220747	220189	220756	220188	220179	220187	220340	O ₂ /Air
130A	6mm-20mm	220747	220198	220756	220197	220179	220181	220340	Air/Air
130A	8mm-25mm	220747	220198	220755	220197	220179	220307	220340	H ₃₅ /N ₂
130A	8mm-20mm	220747	220198	220755	220197	220179	220307	220340	H ₃₅ /N ₂
130A	6mm-12mm	220747	220198	220756	220197	220179	220307	220340	N ₂ /N ₂
130A	3mm-25mm	220747	220183	220756	220182	220179	220181	220340	O ₂ /Air
200A	8mm-20mm	220637	220762	220758	220343	220342	220307	220340	N ₂ /N ₂
200A	8mm-20mm	220637	220762	220758	220343	220342	220307	220340	H ₃₅ /N ₂
200A	8mm-20mm	220637	220762	220759	220346	220342	220307	220340	N ₂ /N ₂
200A	8mm-20mm	220637	220762	220759	220346	220342	220307	220340	H ₃₅ /N ₂
200A	5mm-32mm	220637	220761	220757	220354	220353	220352	220340	O ₂ /Air
260A	6mm-25mm	220637	220763	220758	220406	220405	220307	220340	N ₂ /Air
260A	6mm-25mm	220637	220763	220758	220406	220405	220307	220340	H ₃₅ /N ₂
260A	6mm-38mm	220637	220763	220758	220406	220405	220307	220340	N ₂ /Air
260A	8mm-50mm	220637	220763	220758	220406	220405	220307	220340	H ₃₅ /N ₂
260A	6mm-50mm	220637	220764	220760	220439	220436	220435	220340	O ₂ /Air

XPR 300



Specs	Thickness(mm)	"Shield/Deflector Life time (2400 hour)"	"Shield Life time (48 hour)"	"Retaining cap Life time (720 hour)"	"Nozzle Life time (8 hour)"	"Swirl ring Life time (240 hour)"	"Electrode Life time (8 hour)"	"Water tube Life time (2400 hour)"	Auxiliary gas
30A	0.5mm-5mm	420200	420228	420365	420225	420407	420222	420368	O ₂ /O ₂
80A	3mm-12mm	420200	420246	420365	420243	420242	420240	420368	O ₂ /Air
130A	3mm-25mm	420200	420255	420365	420252	420242	420249	420368	O ₂ /Air
170A	6mm-32mm	420200	420513	420365	420261	420260	420258	420368	O ₂ /Air
300A	15mm-50mm	420200	420491	420365	420279	420406	420276	420368	O ₂ /Air
40A	0.8mm-6mm	420200	420291	420365	420288	420314	420303	420368	N ₂ /N ₂
40A	0.8mm-6mm	420200	420291	420365	420288	420314	420294	420368	Air/Air
60A	2.5mm-6mm	420200	420309	420365	420297	420323	420303	420368	N ₂ /N ₂
60A	2.5mm-6mm	420200	420309	420365	420297	420323	420303	420368	F ₅ /N ₂
60A	2.5mm-6mm	420200	420300	420365	420296	420323	420303	420368	N ₂ /H ₂ O
60A	2.5mm-6mm	420200	420309	420365	420297	420323	420294	420368	Air/Air
80A	3mm-10mm	420200	420309	420365	420306	420323	420303	420368	N ₂ /N ₂
80A	3mm-10mm	420200	420309	420365	420306	420323	420303	420368	F ₅ /N ₂
80A	3mm-10mm	420200	420309	420365	420306	420323	420294	420368	Air/Air
130A	6mm-15mm	420200	420318	420365	420315	420314	420356	420368	N ₂ /N ₂
130A	6mm-15mm	420200	420318	420365	420315	420323	420356	420368	H ₂ -Ar-N ₂ /N ₂
130A	6mm-15mm	420200	420469	420365	420315	420314	420356	420368	N ₂ /H ₂ O
170A	10mm-25mm	420200	420327	420365	420324	420314	420356	420368	N ₂ /N ₂
170A	10mm-25mm	420200	420327	420365	420324	420323	420356	420368	H ₂ -Ar-N ₂ /N ₂
170A	10mm-25mm	420200	420472	420365	420324	420314	420356	420368	N ₂ /H ₂ O
170A	10mm-25mm	420200	420513	420365	420524	420260	420258	420368	Air/Air
300A	12mm-32mm	420200	420362	420365	420359	420323	420258 (9 hour)	420368	N ₂ /N ₂
300A	12mm-32mm	420200	420362	420365	420359	420358	420258 (10 hour)	420368	H ₂ -Ar-N ₂ /N ₂
300A	12mm-32mm	420200	420475	420365	420359	420323	420258 (11 hour)	420368	N ₂ /H ₂ O



HUGONG Standard:

Machine
CNC controller
Plasma power source
Nesting software
Rail

Customer Options:

H-beam
Cutting table
Filter system

Customer Job:

Base foundation
Compressed air
Air filter
Electric power

Reference information for customer to prepare



Hypertherm power source	Material	Quality cutting	Pierce thickness	From edge	Victor	Kjellburg
POWERMAX45	Mild steel	6mm	10mm	25mm	CUTMASTER40	N/A
	Stainless steel	6mm	10mm	19mm		
	Aluminium	6mm	10mm	19mm		
POWERMAX65	Mild steel	8mm	12mm	25mm	CUTMASTER60	N/A
	Stainless steel	8mm	12mm	20mm		
	Aluminium	8mm	12mm	20mm		
POWERMAX85	Mild steel	10mm	16mm	30mm	CUTMASTER80	N/A
	Stainless steel	10mm	16mm	25mm		
	Aluminium	10mm	16mm	25mm		
POWERMAX105	Mild steel	14mm	22mm	38mm	CUTMASTER100	N/A
	Stainless steel	12mm	19mm	32mm		
	Aluminium	12mm	19mm	32mm		
POWERMAX125	Mild steel	16mm	25mm	44mm	CUTMASTER120	N/A
	Stainless steel	16mm	25mm	44mm		
	Aluminium	16mm	25mm	44mm		
MAXPRO 200	Mild steel	20mm	32mm	75mm	AUTOCUT200	N/A
	Stainless steel	20mm	25mm	64mm		
	Aluminium	20mm	32mm	75mm		
HPR130XD	Mild steel	16mm	32mm	38mm	ULTRACUT200	SmartFocus200
	Stainless steel	16mm	20mm	25mm		
	Aluminium	16mm	20mm	25mm		
HPR260XD	Mild steel	32mm	38mm	64mm	ULTRACUT300	SmartFocus300
	Stainless steel	32mm	32mm	50mm		
	Aluminium	32mm	25mm	50mm		
XPR300	Mild steel	35mm	50mm	80mm	ULTRACUT300	SmartFocus300
	Stainless steel	32mm	38mm	75mm		
	Aluminium	32mm	38mm	50mm		
HPR400XD	Mild steel	38mm	50mm	80mm	ULTRACUT400	SmartFocus400
	Stainless steel	38mm	45mm	80mm		
	Aluminium	38mm	45mm	80mm		
HPR600XD	Mild steel	38mm	50mm	80mm	N/A	HiFocus600i
	Stainless steel	75mm	75mm	160mm		
	Aluminium	75mm	75mm	160mm		





Brand

Quality

Service



Shanghai Hugong is driven by consistent attention to technical innovation, market orientation, management improvement and employee development, with a determined focus on providing best in class value and enhancing customer experience, whilst at the same time, fulfilling its social and ethical responsibilities in full. Shanghai Hugong strives to provide its global consumers with advanced, high quality and competitive "Total Welding and Cutting Solutions" .



**Looking
to the future**