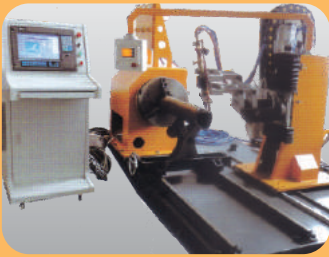


# ***Sai Weld India***



## **CUTTING MACHINE**



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## 03 SERVICE

**SAI-WELD-INDIA** is a young organization which supplies all kind of world class special application CNC plasma cutting , OXY, laser & water jet cutting and equipments.

Plasma machines which includes most advanced Thermal dynamic & Hypertherm manual plasma cutters, Hypertherm & Thermal dynamic mechanized plasma cutters, Robotic plasma cutting machine, TIG/MMA/CUT 3 in 1 welding machines, IGBT Inverter plasma cutting machines, IGBT submerged ARC welding machines, MIG/MAG welding machines, All kind of Tungsten Electrodes, Copper alloys and all kind of consumables.

**SAI-WELD-INDIA** is one stop shop for plasma, OXY, laser & water jet cutting machines or equipment requirement and is know for fast response, reliability and precision in quality material. This helps their customer to focus on their core strength/business to increase productivity and profitability.

Our vision is to empower people in shaping their world with our branded solutions in plasma & oxy-fuel cutting, heating and gas welding; brazing and soldering; gas regulation; automated and manual plasma cutting; automated and manual air carbon arc gouging, plasma arc welding; arc welding and arc accessories; all of which are designed to make your job easier, faster and safer.

## COMPANY PROFILE

When you choose our products, expect them to offer unparalleled performance, superior productivity and built-to-last dependability in end-user applications such as:

- Automotive
- Maintenance & Repair
- Medical
- Construction
- Mechanical Contractors
- Demolition & Scrap
- Metal Art and Jewelry
- Farming & Ranching
- Mining and Aggregates
- Heavy Equipment Manufacturing
- Oil and Gas
- Fabrication & Manufacturing
- Pipe and Pipelines
- Laboratory and Testing
- Ship Building

In addition to our unwavering focus on meeting the needs of our end users, we strive to deliver the highest level of customer care. Victor Technologies' field sales representatives and technical support personnel are dedicated to providing the highest level of customer service and training for all of our products.



12,500 Sq. Ft.  
Production Facility

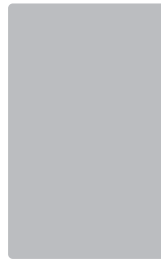
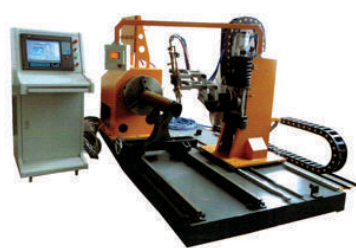
32,00 Sq. Ft.  
Office Infrastructure

30+  
Human Strength

..... *Growing with a purpose*



# CORPORATE CULTURE



## Our mission:

*Keep our customers in the lead*

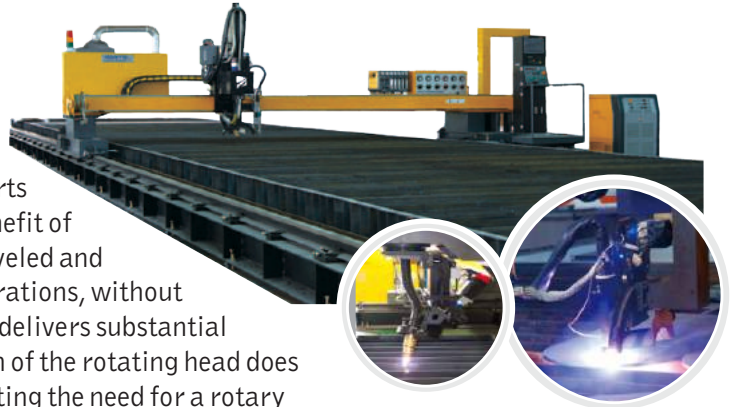
## Our core values:

"Love sincerity, innovation perseverance and achievement customers, ever as pioneer"

## » CUTTING EQUIPMENT

### ArtHydef Series CNC Plasma Bevel Cutting Machine

The ArtHydef Plasma Bevel cutting system is widely applicable in ship-building, structural steel and mechanical device manufacturing industries. The ability to cut parts with accuracy and precision in 2-D, but with the added benefit of 3-D cutting to prepare edge surfaces that are correctly beveled and clean to be immediately ready for subsequent welding operations, without the need for additional weld-prep operations. This benefit delivers substantial improvements in productivity and cost savings! The design of the rotating head does not twist the cables, and reliability is improved by eliminating the need for a rotary contactor ring to transmit electrical signals. This system supports a smooth continuous change to the bevel angle while cutting to realize plate curve bevel cutting, and can also cut V, X, K or Y bevels. Typical applications include cutting ship hull components, or pressure vessels with domed surfaces where beveled sections are cut from the rounded surfaces. The plasma bevel Cutting Machine has the capability to perform scarf function to remove weld beads and leave a seamless appearance to welded seams, eliminating the need for subsequent machining processes. The plasma system is matched to meet the cutting requirements of the customer and application.



#### ■ SPECIFICATIONS

Item	Parameter	
	ArtHydef Series CNC Unlimited Rotary Plasma Bevel Cutting Machine	ArtHydef Series CNC 720° Rotary Plasma Bevel Cutting Machine
Size	More than 4 meters	
Driving Mode	Dual Side	
The Length of Rail	Custom rail length according to customer requirements	
Effective Cutting Width	1m Less than overall beam width	
Effective Cutting Length	2.5m Less than overall rail length	
Plasma Bevel Cutting Thickness	Plasma system will be matched to customer cutting requirements	
Bevel Angle	$\pm 45^\circ$	
Maximum Machine Speed	20,000 mm/min	
Number Of Torch Stations	1-2 Plasma cutting torches	
Cutting Mode	Plasma, with various gases (Air,Oxy,N <sub>2</sub> ,H <sub>2</sub> ,Argon hydrogen mixture)	
Drive Motor	Panasonic AC Servos	
Gearbox	NEUGART Planetary reducer	
CNC System	Hypertherm EDGE Pro system	
Nesting Software	LANTEK	
Optional Equipment	Rotating Flame Cutting Torch for bevel cutting, Cutting Table and Fume Extraction system	

# ArHydef Series CNC Plasma Cutting Machine



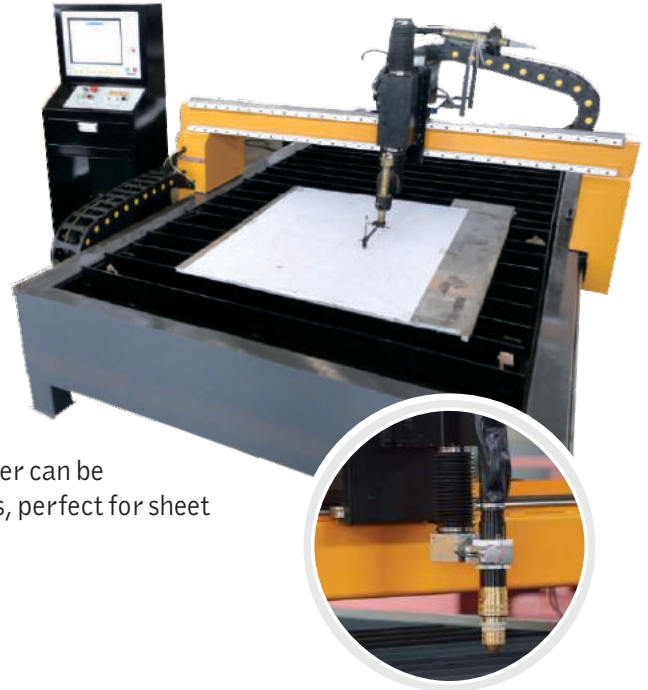
The ArHydef series CNC Plasma Cutting Machine has many new design improvements for superior performance. A durable beam construction with linear guides for smooth, accurate motion of the torches, and a precision rack & pinion drive mechanism with reliable brushless AC servos and low-backlash planetary gearboxes for high positional accuracy. The CNC is easy to operate, and the low-profile save time to load and unload materials. When equipped with a Hi-Focus plasma, the system can consistently produce high quality cut parts!

## ■ SPECIFICATIONS

Item	Parameter
	ArHydef Series CNC Plasma Cutting Machine
Size	Minimum 4 meters
Driving Mode	Dual Side
The Length of Rail	Custom rail length according to customer requirements
Effective Cutting Width	0.8m Less than overall beam width
Effective Cutting Length	2m Less than overall rail length
Plasma Cutting Thickness	Plasma system will be matched to customer cutting requirements
Maximum Machine Speed	20,000 mm/min
Number Of Torch Stations	1-2 Plasma cutting torches, Arc voltage THC
Cutting Mode	Plasma, with various gases (Air,Oxy,N <sub>2</sub> ,H <sub>2</sub> ,Argon hydrogen mixture)
Drive Motor	Panasonic AC Servos
Gearbox	NEUGART Planetary reducer
CNC System	Hypertherm EDGE Pro or Burny 10 LCD Plus
Nesting Software	FASTCAM
Optional Features	Cutting table (wa er table or downdraft design for fume extraction)

# ArtMaster Series CNC Plasma Table Cutting Machine

The ArtMaster series CNC plasma cutting machine combines high cutting speed with accuracy and precision, using a space efficient integrated cutting table design which makes for fast and easy installation. Linear Guides are paired with rack and pinion drive mechanism for smooth and accurate motion, supported by a powerful brushless AC Servo System equipped with precision planetary gearboxes. Available with various plasma system makes and models to suit the intended use. Various torch height control systems are available in arc voltage, capacitive, and mechanical configurations, and the torch positioner can be either motorized or pneumatic. Ideal for cutting thinner materials, perfect for sheet metal, mild steel, aluminum or stainless steel.



## ■ SPECIFICATIONS

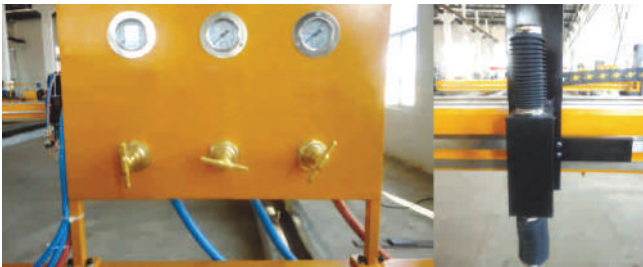
Item	Parameter	
	ArtMaster Series CNC Plasma Table Cutting Machine	
Machine Width	2m-2.5m	
Driving Mode	Dual Side	
The Length of Rail	4m, 6m	
Effective Cutting Width	0.5m Less than overall width	
Effective Cutting Length	1m Less than overall length	
Plasma Cutting Thickness	Depend on the plasma	
Maximum Machine Speed	Up to 25,000 mm/min	
Number Of Torches	1 plasma torch	
Cutting Mode	Plasma cutting (Air,Oxy,N <sub>2</sub> ,H <sub>2</sub> ,Argon hydrogen mixture)	
Drive Motor	Panasonic Minus Series AC Servos	
Gearbox	NEUGART Planetary reducer	
Guides	Precise linear guides in all axes	
Working Cutting Table	Shallow water table	Downdraft design with vent for fume extraction
CNC System	Hypertherm MicroEDGE Pro or FL CNC	
Plasma Power	Hypertherm, Thermal Dynamics, Kjellberg	
Nesting Software	FASTCAM	
Optional Features		Fume Extraction system

# ArtMax01 Series CNC Flame Cutting Machine

The ArtMax-01 series CNC gantry cutting machine is designed for flame cutting applications required to cut thicker steel plates up to 300mm in thickness. The machine is heat-treated and stress relieved to provide good rigidity and high strength with no deformation.

Heavy duty rail is machined and surface treated for long life and smooth motion. Each oxy-fuel torch is mounted to a robust motorized lifter, using a ballscrew mechanism and linear guides to insure the up/down movement is accurate and true.

Automatic flame ignition and automatic capacitive torch height control systems are included as standard equipment, to fully automate the cutting process and insure the cut quality is consistently high. By using our nesting software to prepare cutting programs the user can optimize plate utilization and increase overall productivity and efficiency.



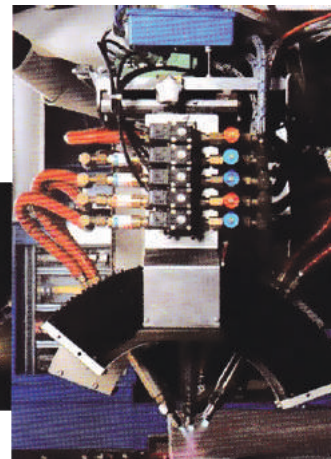
## ■ SPECIFICATIONS

Item	Parameter	
	ArtMax01 Series CNC Flame Cutting Machine	
Size	Up to 4 meters	More than 4 meters
Driving Mode	Single or dual Side	Dual Side
The Length of Rail	Upon customer request	
Effective Cutting Width	0.8m Less than machine width	
Effective Cutting Length	2m Less than rail length	2.5m Less than rail length
Cutting Thickness	6-100mm Standard (optional up to 300mm)	
Maximum Machine Speed	10,000 mm/min	
Number Of Torch Stations	1-3 Torch Stations with automatic ignition and capacitive height control	1-6 Torch Stations with automatic ignition and capacitive height control
Cutting Mode	Flame (Oxygen and Fuel Gas)	
Drive Motor	Panasonic Minus Series AC Servos	
Gearbox	NEUGART Planetary reducer	
CNC System	Hypertherm MicroEDGE Pro or FL CNC	
Nesting Software	FASTCAM	
Optional Features & Equipment	Powder marking, Mult -stage piercing, High and low pressure preheating, Plate marking, Manual torch positioners, Heating / air-conditioning for machine electronics, Fume Extraction system	



## ArtMax02 Series CNC Triple Torch Bevel Cutting Machine

The ArtMax-02 CNC Cutting Machines features a triple torch oxy-fuel contour bevel system which provides automatic continuous rotation for bevel cutting on mild steel, available with manual or automatic bevel angle adjustment. The system utilizes a plane parallel linkage, making it very multi-purpose for plate cutting applications. It can also be used for cutting straight line bevels to provide weld preparation edges and plate squaring. Three torch heads make it possible to produce all standard welding edges, including cutting a "V", "Y" or "X" cross section in one pass. The automatic torch height control system allows the system to handle changes in the plate surface while bevel cutting, and can support H,T and many kinds of section mouldings, as well as line cutting for pipe. The wide range of applications make this machine a perfect choice for medium to large scale metal processing / manufacturing companies.



### ■ SPECIFICATIONS

Item	Parameter	
	ArtMax02 I Series CNC Triple Torch Bevel Cutting Machine (rotating torch)	ArtMax02 II Series CNC Triple Torch Bevel Cutting Machine (straight line)
Size	More than 3 meters	
Driving Mode	Single or dual Side	
The Length of Rail	Upon customer request	
Effective Cutting Width	1m Less than overall machine width	
Effective Cutting Length	2m or 2.5m Less than overall rail length	
Cutting Speed	0.1-0.75 m/min	
Cutting Thickness	6-60mm	
Groove	"V", "Y", "X", "K" cure groove	
Bevel Angle Range	$\pm 45^\circ$	
Maximum Machine Speed	8000 mm/min	
Number Of Cutting Torch Stations	1-6 Torch stations with automatic ignition, single or triple torch, with capacitive height control	
Cutting Mode	Flame (Oxygen and Fuel Gas)	
Drive Motor	Panasonic Minus Series AC Servos	
Gearbox	NEUGART Planetary reducer	
CNC System	Hypertherm, FL, Burny	
Nesting Software	FASTCAM	
Optional Features	Powder marking, Mult -stage piercing, High and low pressure preheating, Plate marking, Manual torch positioners, Heating / air-conditioning for machine electronics, Fume Extraction system	

# ArtMax03 Series Gas Torch Machine for Strip Cutting

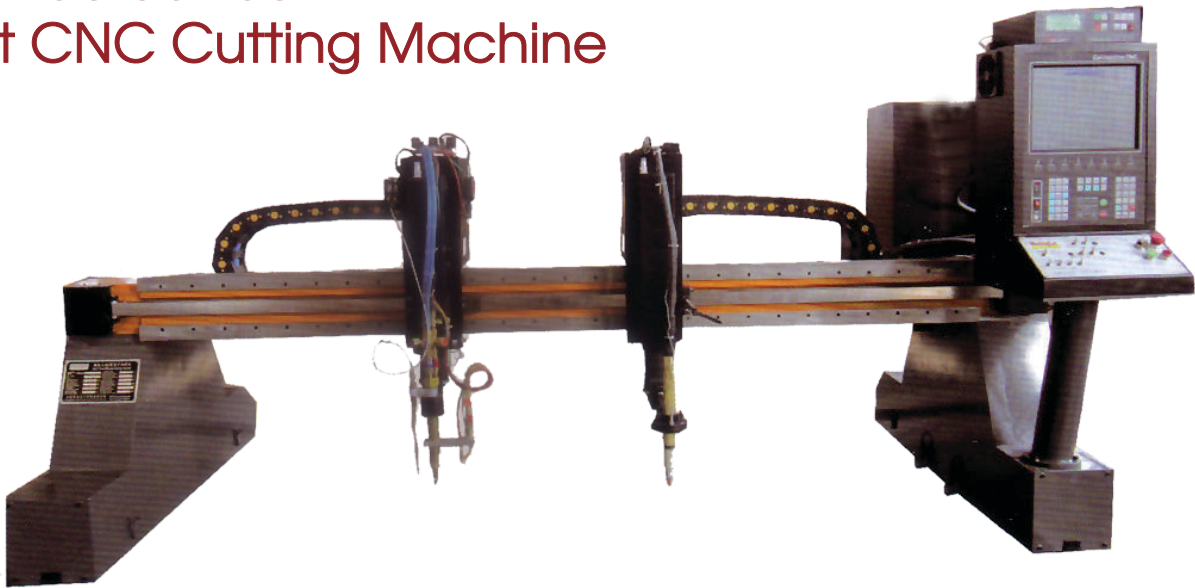


The ArtMax-03 flame cutting machine is a effective system for making straight cuts (strip cuts) in steel plates. The overall size and number of torches are configured according to the requirements of the customer's application. Several gas torches mounted on the front of the machine can make longitudinal straight cuts simultaneously, and one torch mounted on the back of the machine can make crosswise cuts to cut off the width edge of the plate. The simple operator console makes it easy to control the cutting process. Optional features such as manual or motorized height adjustment support the ability to raise and lower all torches together for convenient operation. Water spray devices are also optional.

## ■ SPECIFICATIONS

Item	Parameter	
	ArtMax03 Series Gas Torch Machine For Strip Cutting (rail axis drive only)	ArtMax03 Series Gas Torch Machine For Strip Cutting (rail and transverse drive)
Size	More than 3 meters	
Driving Mode	Single or dual Side	
The Length of Rail	Upon customer request	
Effective Cutting Width	0.8m Less than overall machine width	
Effective Cutting Length	2m or 2.5m Less than overall rail length	
Minimum Cutting Width	70mm	
Cutting Thickness	5-60mm	
Maximum Machine Speed	6,000 mm/min	
Number Of Cutting Torches	Rail axis: qty as per customer request, Transverse axis: 1 torch	
Cutting Mode	Flame (Oxygen and Fuel Gas) 2 2	
Drive Motor	DC servo motor	
Speed Control System	SCR control	

## ArtPrec Series Light CNC Cutting Machine

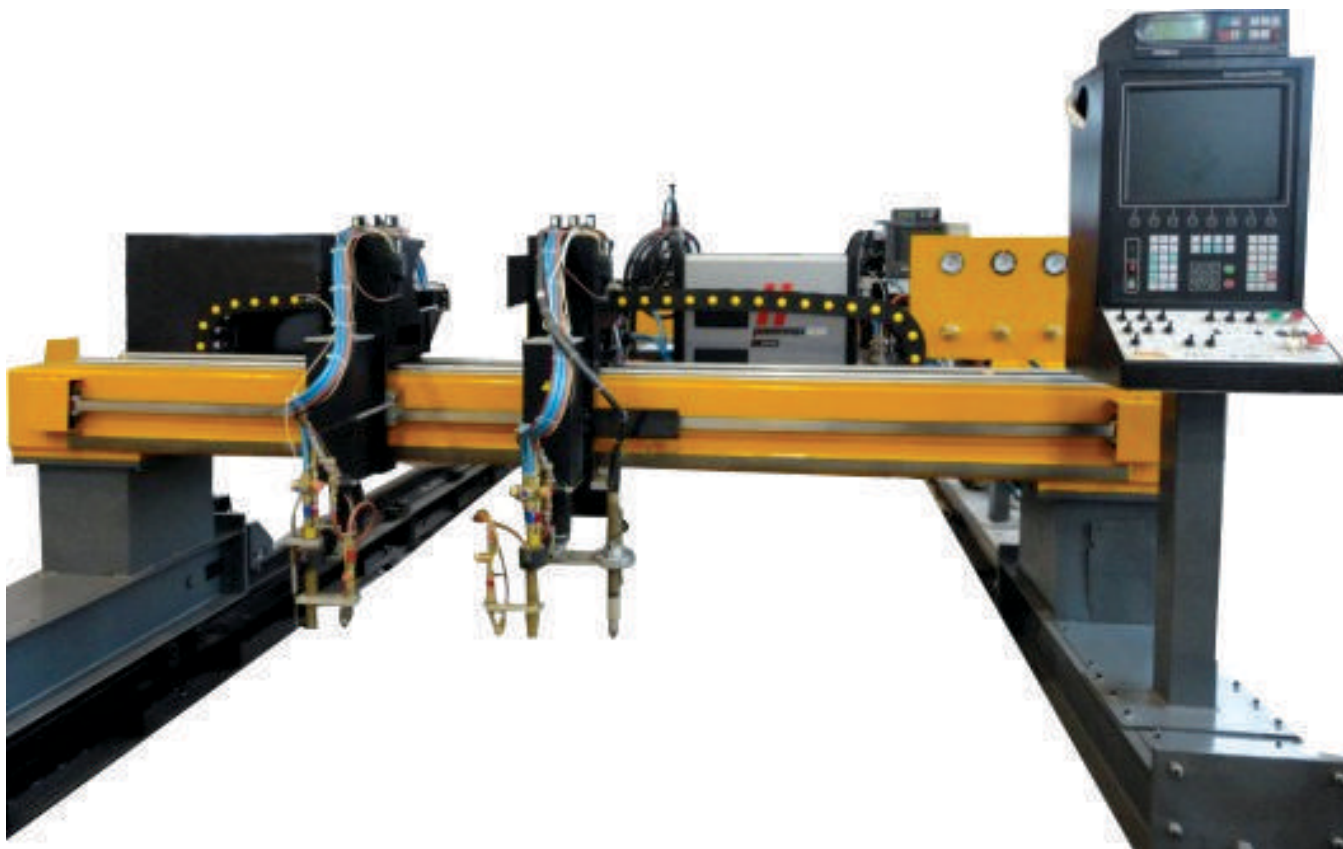


The ArtPrec Light CNC Cutting Machine is an economical gantry model suitable for flame cutting with oxygen / fuel gas torches or with low power plasma cutting equipment. Designed with a lighter construction for cost sensitive applications, it also offers many advantages as automated CNC cutting machine, by saving time, increasing cutting productivity and efficiency, and saving materials by allowing the use of nesting software tools to optimize the plate utilization.

### ■ SPECIFICATIONS

Item	Parameter
	ArtPrec Series Light CNC Cutting Machine
Width Size	3-6m
Driving Mode	Up to 4m width - Single side, more than 4m width - Dual side
The Length of Rail	2,000-10,000 mm - offered in 2M increments
Effective Cutting Width	0.8m Less than overall width
Effective Cutting Length	2m Less than overall rail length
Cutting Thickness	6-100mm (up to 300mm for special one flame torch)
Maximum Machine Speed	6000 mm/min
Number Of Flame Cutting Torches	1-6 With motorized lifters standard, optional automatic Ignition, capacitive Torch Height Control
Cutting Mode	Flame (Oxygen and Fuel Gas) &/or Plasma
Number of Plasma Torches	1 -2 With motorized lifters and arc voltage torch height control
Drive Motor	Taiwan delta motor
Gearbox	Precision reducer
CNC System	Beijing start or Shanghai FL
Nesting Software	Australia FASTCAM
Optional Features	Powder marking device, multi stage piercing system , high and low pressure preheating, manual torch positioners

## ArtCut Series Portal CNC Flame/Plasma Cutting Machine



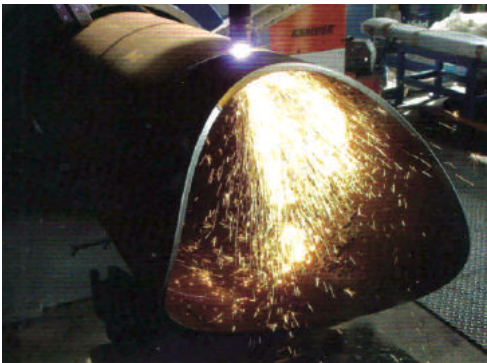
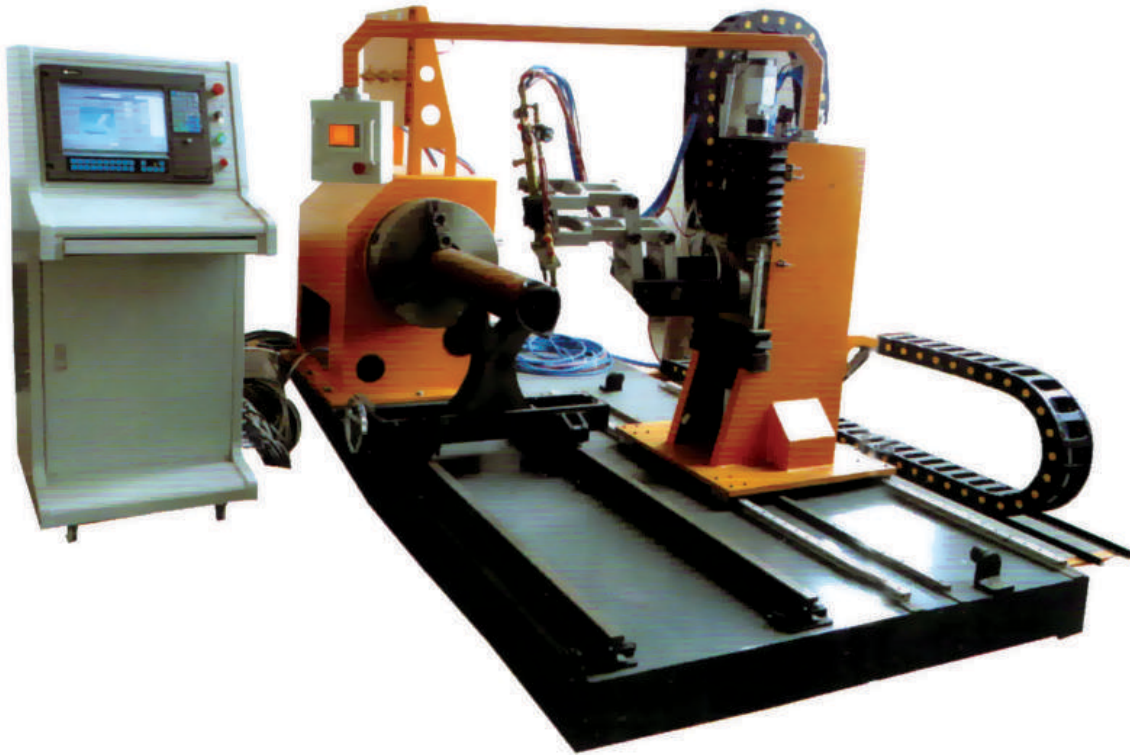
The ArtCut CNC flame/plasma cutting machine is a flexible all-round system that is very cost effective and offers productivity improvements and cost saving benefits. This single machine is suitable for gas cutting of carbon steel in 5-300mm thickness range, and can support plasma cutting for stainless steel, carbon steel and non-ferrous metal in 0.5-160mm thickness range (depending on capacity of plasma source selected). The rack & pinion drive mechanism employs a reliable brushless AC servo system with precision planetary gearboxes for high positional accuracy, and linear guides for smooth, accurate motion of the torches in the cross axis. By designing the quality into the machine construction, the system can consistently produce high quality cut parts!



## ■ SPECIFICATIONS

Item	Parameter	
	ArtCut Series Portal Type CNC Flame/Plasma Cutting Machine	
Size	Up to 4 meters	More than 4 meters
Driving Mode	Single or dual Side	Dual Side
The Length of Rail	Upon customer request	
Effective Cutting Width	0.8m Less than overall machine width	
Effective Cutting Length	2m Less than overall rail length	
Cutting Thickness	Flame 6-100mm standard (optional up to 300mm), Plasma cutting capacity according to system selected	
Maximum Machine Speed	20,000 mm/min	
Number Of Flame Cutting Torch Stations	1-4 Flame torch stations with motorized torch lifter, automatic ignition and capacitive height control	
Number Of Plasma Torch Stations	1-2 Plasma torch stations with motorized torch positioner and arc voltage height control	
Cutting Mode	Flame (Oxy and Gas), Plasma (Air, Oxy, N <sub>2</sub> , H <sub>2</sub> etc.)	
Drive Motor	Panasonic AC Servos	
Gearbox	NEUGART Planetary reducer	
CNC System	Hypertherm, FL, Burny	
Plasma System	Hypertherm, Thermal Dynamics, Kjellberg, Kaliburn	
Nesting Software	FASTCAM	
Optional Features & Equipment	Powder marking device, multi-stage piercing, high and low pressure preheat, manual torch positioner, heating and air-conditioning for electronics, cutting table (water or downdraft design), fume extraction system	

## ArtPCut Series Pipeline Transversal CNC Flame/Plasma Cutting Machine



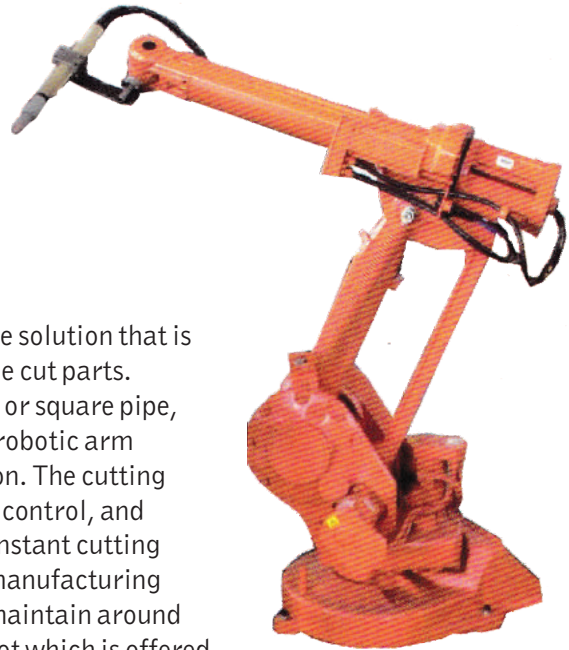
State-of-the-art pipe cutting and pipe beveling tools improve performance accuracy and productivity. The Art-Pcut CNC Transversal Cutting Machine is the perfect system to prepare steel and non-ferrous metal pipe for fabrication applications. A servo driven rotating chuck provides rotation and servo driven profiling axes position and orient torch for precise profiles. Automatic, servo driven height sensing system vertically compensates position for out of round pipe. An intuitive macro shape library automatically creates the pipe cutting programs, making it easy to cut intersection holes at any bevel angle to support subsequent welding processes. This machine has various uses in construction, chemical & process industries, shipbuilding, mechanical engineering, metallurgy, electric power generation, and steel pipe structural framing applications.

Supported cut types are: straight, miters at any angle, saddles on any angle, Y's, holes at any angle, slots, rectangles, offset holes and saddles, dummy legs and ellipses. Structural truss cuts for single and multi-pipe intersections.

## ■ SPECIFICATIONS

Item	Parameter	
	ArtPcut Series Pipeline Transversal CNC Flame/Plasma Cutting Machine (small pipe)	ArtPcut Series Pipeline Transversal CNC Flame/Plasma Cutting Machine (big pipe)
Outside Diameter Of Pipe	Φ60-Φ1000mm	Φ1000-Φ2000mm
Maximum Weight Of Pipe	20000kg	45000kg
Flame Cutting Torch	1 Set	
Plasma Cutting Torch	Optional	
Cutting Workpiece Material	Mild steel, Alloy steel, Stainless steel, Non-ferrous metal	
Maximum Vertical Moving Speed	10000 mm/min	
Cutting Speed	100-300 mm/min	
Flame Cutting Thickness	5-50mm	
CNC Axes	2-6 (Upon customer request)	
The Axis Rotation Of Pipe	Unlimited rotation	
Torch Swing Move Around	Upon customer request	
Cutting Torch Up and Down Movements	280 or 380 or 480mm	550-1100mm
Torch Swing In Left and Right (Bevel Angle)	±45°	
Torch Swing on Back and Forth (Bevel Angle)	±45°	
Cutting Nozzle Expansion	50mm	
Min Crossing Angle	20	
Chuck	3 Claw chuck	Friction roller
Chuck Through The Hole	190 or 260mm	/
Electric Chuck Adjustment	Optional	/
Bracket	4 Sets Standard, more are optional	/
Acceptable Ambient Temperature Range	-5°C-50°C	
Cutting Mode	O <sub>2</sub> + C <sub>2</sub> H <sub>2</sub> , O <sub>2</sub> + C <sub>3</sub> H <sub>8</sub> , Air plasma	
Power Supply Voltage	380V 50HZ 16KVA	
Elliptical Compensation	Automatic height adjustment system actively adjusts torch height to provide elliptical compensation for out-of-round pipe, protecting torch from collision with pipe surface and maintaining optimal cut quality.	

## Robot-arm 3D Series Plasma Cutting Machine



The Robot-arm 3D plasma cutting machine is an extremely flexible solution that is most applicable to high volume, repetitive cutting of custom profile cut parts. Perfect for cutting holes and contours on the end sections of round or square pipe, structural beams, or contoured materials, and the mobility of the robotic arm provides complete access to the workpiece regardless of orientation. The cutting path the plasma torch follows is easily programmed into the robot control, and integrated arc voltage torch height control feature maintains a constant cutting height for best results. Widely used in automotive, construction, manufacturing and process industries because it provides a cost effective way to maintain around the clock productivity and reliability. Our system uses an ABB robot which is offered with a plasma system to match the end use requirement, either convention air plasma for standard applications or precision plasma for more demanding applications. The powerful servo motors enable each axis of the robot to move quickly and accurately, with precise positioning repeatability.

### ■ SPECIFICATIONS

Item	Parameter	
	IRB2400L Robot Plasma Cutting Machine	
Weight Available For Wrist	7kg	
Max Radius For Arm Extension	1.8m	
Axis Numbers	6 Axis	
Repeatability Position Precision	0.06mm	
Power	3 Phase 380V (+10%, -15%), 50Hz	
Rating Power	4KVA	
Robot Height	1731mm	
Bottom Base Size	723mm x 600mm	
Robot Weight	380kg	
Max Humidity	95%	
Environment Temperature	0°C-45°C	



## ArtLaser Series CNC Laser Cutting Machine



The ArtLaser series CNC laser cutting machine is most suitable for demanding applications requiring the highest cut quality. Our stable gantry design is coupled with powerful AC Servo drives to deliver machine speeds up to 120 m/min with smooth, accurate motion for precise cutting results. With the optional automatic exchange-type cutting table, the system can reduce the time for material loading and unloading, and improve efficiency of processing.

### ■ SPECIFICATIONS

Item	Parameter
	ArtLaser 3015 Series CNC Laser Cutting Machine
Effective Cutting Area	3000mm X 1500mm
Cutting Material	Mild steel, Alloy steel, Stainless steel, Non-ferrous metal etc.
Maximum Machine Speed	120 m/min
Max Cutting Thickness (Mild Steel)	Up to 25mm , power source selected according to customer requirement
Positioning Accuracy	±0.025mm
Repeatedly Positioning Accuracy	±0.01 mm
Laser Power	1000-6000w
Laser Source	Fiber laser or CO <sub>2</sub> laser

# ArtLaser 3015-500

## CNC Fiber 500W Sheet Metal Laser Cutting Machine



ArtLaser3015-500 CNC Fiber 500W adopts the most sophisticated Germany IPG laser, combining Gantry CNC machine designed by our company and high strength welding body, after high temperature annealing and precision machining by large CNC milling machine. It has good rigidity and stability with precision ball screws or rack and pinion, linear guide drive run. It is mainly for cutting sheet metal below 4mm in high speed and high precision. Fiber laser has a series of advantages, such as high beam quality, high brightness, high conversion rates, maintenance-free, stable and reliable operation of low cost and small size, etc. Air-assisted cutting is the most advanced level of laser cutting and it is widely used in metal products, hardware, precision machinery, auto parts, glasses, jewelry, nameplate, electronics, toys, advertising and other industries.

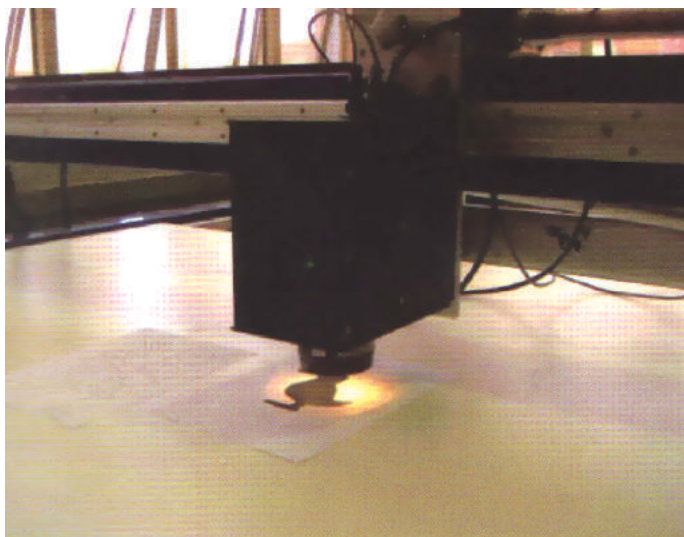
### Function Advantages:

1. Adopt world top imported fiber laser source, stable performance, the life of key parts can reach up to 100 thousand hours
2. Distinguished laser beam quality, which made the cutting line more precision, working efficiency higher, processing quality better
3. Adopt fully enclosed constant temperature laser source working environment, making sure the stable work of laser source more effective
4. Owned the American advanced cutting controlling technology, and the automatic failure alarming protective display function for cutting head, using more safely, more convenient for adjustment, and cutting more perfect
5. Particular punching gas controlling technology, solving the punching problem for thick plate
6. Equipped with high precision, high responsive driver, which is suitable for fast precision cutting

### ■ SPECIFICATIONS

Item	Parameter
	ArtLaser 3015-500 Fiber Laser Cutting Machine
Effective Cutting Area (L x W)	3000mm x 1500mm
Maximum Cutting Speed	14 m/min
Cooling Way	Water cooling
Laser Output Power	500W
Laser Input Power	<1.9KW
Cutting Thickness	0.2--5mm
Driving	Imported servo motor
Positioning Precision	+0.08 mm/m
Repeatability Precision	±0.04mm
Power Requirements	380V/50HZ/16A
Continuous Working Time	24 hours
Weight Of The Machine	About 3000 kg
Outline Size (L x W x H)	4270mm x 2280mm x 1750mm

## ArtOTC Series Light CNC Cutting Machine



The ArtOTC Electro-optical tracing cutting machine is a unique and efficient system for automatic gas cutting equipment, allowing complex shapes to be cut in a very simple manner. The machine is very affordable, easy to install and simple to operate, and designed to be reliable and convenient to service. The machine uses the LINATROL photoelectric tracing system for motion control and to activate gas cutting. The system follows a pattern or shape outline, and then completes 1:1 workpiece cutting. The ArtOTC is the perfect choice for low volume cutting and maintenance applications.

### ■ SPECIFICATIONS

Item	Parameter
	ArtOTC Series Electro-Optical Tracing Cutting Machine
Machine Type	Cantilever type (one side tracing, one side cutting)
Driving Mode	Single side drive
Effective Cutting Width	1.5m, 2m, 2.5m
Effective Cutting Length	According to customer requirements
Maximum Machine Speed	3000 mm/min
Trace Cutting Speed	0.1-0.75 m/min
Cutting Thickness	6-80mm
Number Of Cutting Torches	1-6 torch stations, (to meet customer requirements)
Cutting Mode	Flame (Oxygen and Fuel Gas)
Drive Motor	Panasonic AC Servos
Gearbox	Precision planetary reducer
Optical Head	Linatrol HL-90
Tracing Mode	Follows the line edge of a pattern or drawing
Minimum Line Width	>0.6mm
Manual Cutting	Cut straight lines without tracing using the selectable 4 direction switch and speed adjustment on HL90

# WMT 3015-500

## Small CNC Cutting Machine



The WMT Small CNC cutting machine has all the characteristics and functions of a full size CNC cutting machine, and can cut complex shapes effectively using either flame or plasma cutting processes, but takes up much less space on the shop floor, and is portable so it does not have to occupy a fixed location. It is designed to be rugged and

reliable, yet cut parts with accuracy and precision. The compact structural design is light enough to allow the machine to be moved with a forklift or crane, so it can be used indoors or outdoors. The machine's CNC and drive housing is constructed from anti-magnetic steel, and the CNC has an intuitive LCD display with graphical menu driven operation. NC programs in EIA format can be loaded for cutting via USB port or RS-232 download. All the functionality you expect from a large gantry CNC cutting machine, in a smaller portable size, and with a much lower price!

### ■ SPECIFICATIONS

Item	Parameter	
	WMT I Series Small CNC Cutting Machine	WMT II Series Small CNC Cutting Machine
Overall Width	2700mm	
The Length Of Rail	4000mm	
Effective Cutting Width	1850mm	
Effective Cutting Length	3200mm	
Cutting Mode	Flame	Plasma
Cutting Thickness	6-100mm	Depends on plasma selected
Cutting Gas	Oxy/Pro, Ace	Air
Gas Pressure	0.1Mpa for gas 1.0Mpa for O <sub>2</sub>	Compressed air according to plasma
Maximum Machine Speed	6000 mm/min	
Power Requirements (not including plasma power source)	220V 50Hz Standard 110V 60Hz Optional	220V 50Hz Standard 110V 60Hz Optional

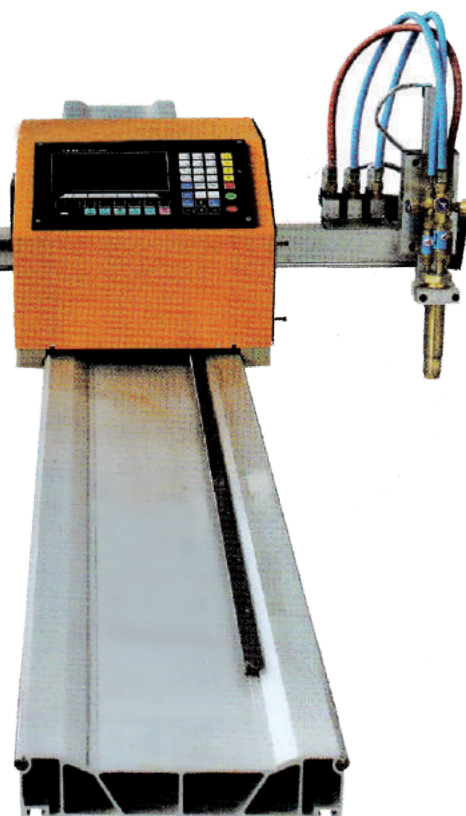


## NAM Series Portable CNC Cutting Machine

NAM I series and NAM II series portable CNC cutting machines can cut complex shapes using flame and plasma cutting processes. These machines are economical, compact and lightweight, making them very portable and easy for an operator to carry this machine from job to job, for both indoor and outdoor cutting.

NAM machines are extremely versatile and suitable for factories of all sizes, with applications in automotive, shipbuilding, construction machinery, fabrication and other industries. Nam I series is equipped with a flame cutting torch and is suitable for cutting mild steel, and NAM II series is equipped with an air plasma system which can also cut stainless steel and other non-ferrous metals.

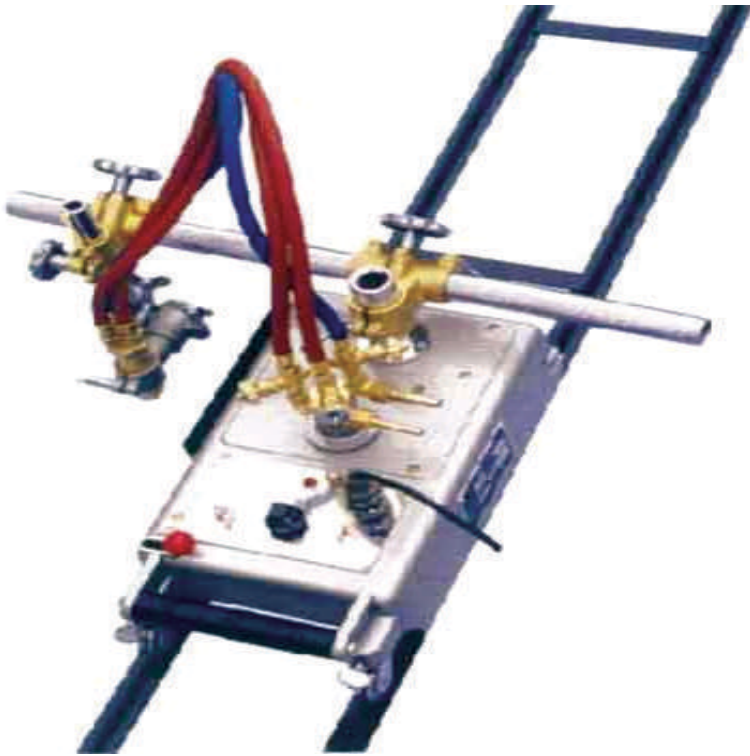
The machine's CNC has an intuitive LCD display with graphical menu driven operation. NC programs in EIA format can be loaded for cutting via USB port or RS-232 download. FastCAM programming software is offered with NAM machines to allow the user to create effective cutting programs that maximize productivity and plate utilization. All the functionality you expect from a large scale CNC cutting machine, in a smaller portable size ... with a very affordable price !



### ■ SPECIFICATIONS

Item	Parameter	
	NAM I Series Portable CNC Cutting Machine	NAM II Series Portable CNC Cutting Machine
Beam Width	1.7m, 2 m	
The Length Of Track	3000mm standard, (longer length optional)	
Effective Cutting Width	1250mm	
Effective Cutting Length	2500mm standard, (longer length optional)	
Cutting Mode	Flame	Plasma
Cutting Capacity	6-100mm	Up to 25mm depending on plasma selected
Cutting Gas	Oxy/Propane, Oxy/Acetylene	Air
Gas Pressure	0.1Mpa for fuel gas 1.0Mpa for O <sub>2</sub>	Compressed air pressure according to plasma selected
Maximum Machine Speed	6000 mm/min	
Power Requirements (not including plasma power source)	220V 50Hz Standard 110V 60Hz Optional	220V 50Hz Standard 110V 60Hz Optional

## CG1-30 Series Semi-automatic Burning Machine

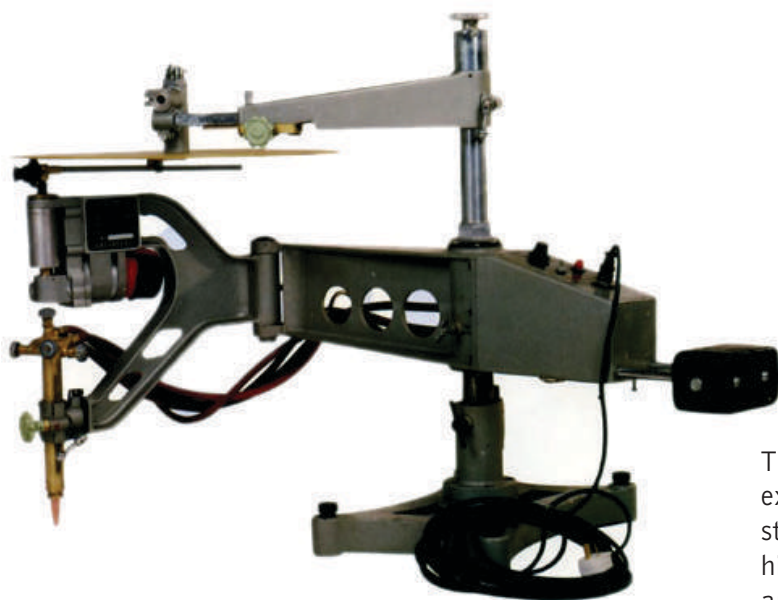


The CG1-30 burning machine is a motorized system that simply moves the cutting torch forwards or backwards following the portable track. It is used primarily for semi-automatic straight line gas cutting, and can also be used for pipe cutting if the pipe diameter is greater than 200mm. This machine can support the operation of two torches simultaneously, which allows the user to cut V,Y bevel edges and also increases working efficiency and productivity.

### ■ SPECIFICATIONS

Item	Parameter
	CG1-30 Semi-automatic Burning Machine
Body Dimensions	470mm X 230mm X 240mm
Input Voltage V/HZ	AC220/50
Thickness Of Cutting Plate	6-100mm
Cutting Speed mm/min	50-750
Cutting Diameter mm	Φ200- Φ2000mm
Total Weight	28.5kg
Cutting Gas	Oxy/Pro, Ace

## CG2-150 Series Profiling Burning Machine



The CG2-150 profiling burning machine is an extremely portable gas cutting system with a compact structure, it is very simple to operate, the efficiency is high, the gas cut surface quality is good and cut parts are dimensionally accurate. This system is ideal as a low cost system for volume production cutting of identical shape components.

### ■ SPECIFICATIONS

Item	Parameter
	CG2-150 Profiling Burning Machine
Body Dimensions	1190mm X 350mm X 800mm
Input Voltage V/Hz	AC220/50
Thickness Of Cutting Plate	6-100mm
Cutting Speed mm/min	50-750
Cutting Diameter mm	Φ600
Gas Cutting Area mm	500mm X 500mm
Total Weight	40kg
Cutting Gas	Oxy/Pro, Ace

# » Torch Height Control Series

## Arc Glide THC and Sensor THC



**Hypertherm®**

### Sensor THC

Hypertherm's "ArcGlide THC" and "Sensor THC" are full featured torch height control systems specifically designed to integrate with Hypertherm Automation's shape cutting controls.

With integrated "SoftMotion" and closed loop servo control, these THC system deliver high performance arc voltage height control for plasma cutting. The result is an easy to use, reliable system that can significantly increase the productivity and profitability of your shape cutting operation.

#### ■ KEY FUNCTION FEATURES

Serial Number	Characteristic
	Hypertherm THC series
1	Complete built-in test for easy hook-up, system test, and configuration
2	Built-in user programmable process control parameters for initial height sense, plasma arc voltage, torch height disable, automatic kerf crossing detection, skip IHS offset automatic retry on arc transfer error
3	Complete servo loop adjustments including proportional, integral, derivative, and feed-forward gains
4	Arc voltage range 50-300 VDC in 0.5volt increments
5	Manual or full automatic height control
6	Programmable retraction distance
7	Locating speed 600inch/min, acceleration 19.2 inch/min
8	Under conventional conditions the dynamic track arc voltage $\pm 0.25V$ and inflection point track voltage $\pm 1.0V$ The dynamic pointing accuracy is $\pm 0.0005$ inches, using 1000 line linear encoder and 1 KHz scanning rate



## Domestic Arc Voltage Height Control

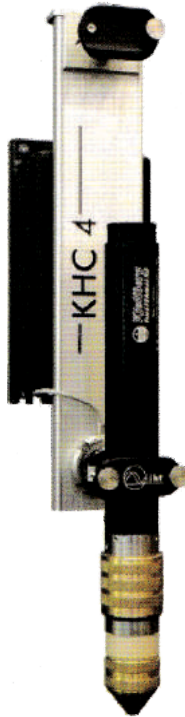


For customers looking for quality performance at a budget price, we offer a domestic THC system featuring reliable functionality at a low price ... most suitable for use with conventional plasma systems for cutting materials up to 25 mm thick.

### ■ KEY FUNCTION FEATURES

Serial Number	Characteristic
	PTHC-2
1	PTHC-2 has a high performance microprocessor core; uses a large screen LCD graphic interface, U.S. made : high voltage isolation amplifier and PWM control output
2	Parameter to set arc voltage ratio relative to actual arc voltage
3	The set arc voltage and measured arc voltage are displayed on LCD screen during cutting
4	Simple parameter setting interface using large LCD display panel
5	Settings accurately suit various plasma power sources and mechanical load at torch station
6	Several modes for setting torch position and initial height for cutting
7	Plasma Cutting Anti-Collision Function for torch protection
8	Arc Voltage automatic control function

# KHC4/KHC1 Arc Voltage Torch Height Control System



The perfect mate for Kjellberg Plasma Systems, the KHC series of Arc Voltage Torch Height Control Systems offer German made quality and reliable functionality, fully featured to get the best cutting results. KHC1 is the perfect system for convention air plasma systems, and KHC4 works best with your precision plasma, including special features to support thick material piercing and cutting which protect the plasma torch and prolong consumable life. The KHC series is the quality choice for consistent cutting results.

## ■ KEY FUNCTION FEATURES

Serial Number	Characteristic
	Kjellberg arc voltage height controller KHC4/KHC1 Series
1	After torch tip softly contacting with steel plate, there is a fine adjustment of the striking arc height and torch height in the millimeter-class range
2	Via the arc voltage sensor, the torch height keeps stable during the cutting process
3	Can be used for both dry cutting and underwater cutting
4	Cutting can be continued when the workpiece is uneven
5	Integrated feature for piercing of thick plates, so it can prolongs nozzle usage life
6	Integrated anti-collision devices to protect the torch from serious collision
7	Compact and precise design with responsive servo motor drive, the maximum stroke is 220 mm
8	The initial height is set by soft torch contact with workpiece
9	Vertical speed can be adjusted up to 6m/min

# » CUTTING MACHINE ACCESSORIES



Panasonic servo drives .....	1
Ignition device .....	2
Yaskawa servo drives .....	3
Precision Planetary Gearbox .....	4
Marking Torch .....	5
AC Gearmotors .....	6

# » CNC System

## The Hypertherm EDGEpro CNC



### The Characteristics of the System:

The EDGE Pro CNC is the newest CNC from Hypertherm, and offers the most features and benefits of any Hypertherm CNC!

### Some key points are as follows:

- Easy to Use - with the CutPro™ Wizard new operators can be ready to cut production parts in less than 5 minutes
- Built-in two-station operator's console, with tactile joystick, speedpot, and torch position control for easy operation
- Network and USB access for part program loading and software updates
- Built-in help and cutting optimization tips for improving table performance and process outcomes on demand
- Cutting applications include high definition, conventional, duct cutting, single- or dual-bevel plasma capability, oxyfuel, laser, and waterjet
- True Hole Technology support for HPRXD applications
- Integrated communications to plasma and torch height control systems for automated and expert control of the cutting process
- Built-in cut charts for automatically setting process parameters for mild steel, stainless, and aluminum to enable consistently optimized cutting performance
- Support for fast transitions from marking to cutting
- Wizards and diagnostic support tools that enable easy setup, use and rapid troubleshooting
- Designed and stress tested to ensure consistent operation in the harsh plasma cutting environment
- Watch Windows™ enable on-screen real-time monitoring of key process performance parameters while cutting

## Burny 10 LCD Plus CNC System



### The Characteristics of the System:

The Burny 10 LCD PLUS is an industrial-grade PC, designed to operate in extreme shop environments where temperature and humidity extremes, metal dust, RF radiation, vibration, and constant machine movement are common challenges for a CNC to overcome. It is easy to learn, easy to use, and allows multiple control and program tasks to be completed simultaneously.

The system produces extremely precise and repeatable motion control by utilizing Windows® XP Embedded (operating system) and tenAsys INtime® (real-time motion control). The CPU is upgraded to mobile technology which constitutes an enormous increase in performance. 1GB of RAM is standard which vastly improves multitasking on the controller.

This CNC also contains a large, 15", full-color, touch screen interface as well as familiar features common to all Burny CNC systems, including help screens, 50 shape library, and the ability to import DXF files directly and create/edit shapes within the control.

The CNC supports automatic setup of plasma cutting parameters, using the optional Advanced Plasma Process Control. By sending the cut chart data to the plasma power supply from the embedded material database, all of the appropriate gas pressures, feedrates,

and kerf values are adjusted to the perfect setting for that type of material the user is cutting. With the optional Advanced Command Messaging (ACM) the user can change the plasma settings on the fly, making the difference between a good hole or a bad hole, & between long or short consumable life.

With the Advanced Nest Navigation tools, the user can interrupt the current cutting routine to cut a new part, move ahead multiple pierce points, recover from cut loss, recover from power loss, change torch consumables, interrupt a long nest, jump to the end of a part or nest, reverse cutting path—all quickly done at the touch of a button without losing machine position and without scrapping valuable material ! Up to 18 programmable home positions can be used for multiple cutting tables, part start locations, consumable change areas, or remote park positions.

The optional "Custom Application Program" utility called CAP helps you more easily integrate the control with cutting machine components for special applications.



## FI5000 CNC System

### The Characteristics of the System:

The FL CNC, designed by Shanghai Jiao Tong University, is dedicated to the digital control of oxy-fuel & plasma cutting machines. The system adopts an Industrial PC hardware platform to deliver high performance and reliability. The user interface is designed to be similar to the Hypertherm EDGE CNC, and is easy to use and very functional. The system can support up to 4 axes and uses "pulse and direction" motion control, which is compatible with most modern AC servo systems. The FL CNC is very economical and suitable for cost sensitive machine applications.

### System Specifications:

- CPU: Intel 852/855 Board, Lower Power Consumption Design
- Display Screen: 15" LCD with Touch Screen
- Operation System: Windows XP
- EMS Memory & Hard Disk: 256M EMS Memory, 4G Solid State Hard Disk
- Interfaces: USB2.0, RS232, PS/2, 10/100Mbps network interface
- Chassis: steel construction, electromagnetic radiation resistant, heatsink for air cooling



### System Features:

- Automatic recognition of EIA and ESS1 code.
- Extensive Parametric Shape Library
- Supports both absolute and relative coordinates
- Adjustable Kerf Compensation
- Graphical simulation of cutting program
- I/O diagnostic utilities
- Plate Alignment function
- Part Repeat in Matrix or Staggered Arrangement
- Zooming, Rotation and Mirror functions
- Parts Nesting function
- Selectable Cut Modes: Oxy-Fuel, Plasma, and Trial
- Real-time acceleration, deceleration during motion and automatic speed control during cornering maintains high quality profile cutting
- Select any part in a nest to cut (selectable pierce point feature)
- Display shows cutting path and tool position, current coordinate and input/output information

## » Plasma Power

### Kjellberg Plasma Power

#### Features :

The Kjellberg Hi-Focus 280i plasma cutting system is produced by the German company Kjellberg Finsterwalde, the European leader for high quality plasma cutting equipment. This system uses a mixture of pure gases for best cut quality, and has a maximum cutting thickness of 70mm. The plasma cutting system current has an adjustable range from 10A-280A.

The HiFocus 280i is a plasma cutting unit for mechanised and automated cutting with swirl gas/secondary gas and plasma marking- even under water.

- Narrow kerf and Hi-Focus cutting with "Contour Cut Technology", reduces the waste of the material
- Dross Free cutting , eliminates additional processes to clean part edges after cutting
- Repeatability cutting edge quality , eliminate waste and rework problems
- Use lower cost to obtain laser-like cutting quality, Cut surface vertical degree < 2°
- Germany Kjellberg 280i series adopts the newest soft switch inverter technology
- Excellent cutting quality and stability, greatly reducing cutting costs
- Special 3-D cutting torches for cutting with robots, CNC bevel cutting machines & pipeline transversal cutting machines, etc
- Stepless adjustable cutting current 10-280A and marking current 5-25A
- Plasma marking and cutting can use same consumables with no need for replacement, flexible fast transition between marking and cutting processes.
- Precision gas flow control can achieve the high quality cutting effect
- "Quick Change" torch head reduces the setup time and increases productivity



Item	Parameter
	HiFocus 280i
Cutting current	10-280 A
Marking current	5-25 A
Plasma gas	O <sub>2</sub> , Ar/H <sub>2</sub> , Forming gas F5 (95 % N <sub>2</sub> / 5 % H <sub>2</sub> )
d. c.	100%
Weight	505 kg
Max. thickness	70 mm
Piercing	40 mm
Recommended range	0,5 - 50 mm

### Plasma Cutting Product Line

#### Manual Plasma Cutting



CUTi™, CUTLINE, PA-S™

#### CNC Plasma Cutting



CutFire™, PA-S™, FineFocus®, HiFocus®

## Kjellberg Plasma Power

### Kjellberg Plasma Technology- HiFocus 280i Plasma Torch and Gas Consoles



PerCut 450M with threaded coupling



PerCut 450A with bayonet coupling



PerCut 440 without quick-change head



PGE3-360 O<sub>2</sub>/Air



PGE-360 for All Gases



Automatic Gas Console PGV3 and PGC

## Application Areas for The Kjellberg Plasma Machines

Plasma Cutting System		CutFire	PA-S				FineFocus					HiFocus					
		100i	25W	45W	70W	450	600	800	800U	1600	1600U	80i	130	161i	280i	360i	440i
Current [A]		100	70	130	240	130	200	300	300	600	60	80	130	160	280	360	440
Recommended Cutting Range min. [mm]		1	3	3	5	3	3	3	3	5(30)	5(30)	0.5	0.5	0.5	0.5	0.5	0.5
Max. [mm]		15	15	30	50	35	30	60	40	110	80	18	32	38	50	60	80
Piercing [mm]		15	12	20	30	25	30	40	40	80	80	15	25	30	40	50	50
Thickness	max. [mm]	15	25	45	70	45	60	80	40	160	100	25	40	50	70	80	120

# Thermal Dynamics Plasma Power - Ultra-Cut® XT Systems

*The new Ultra-Cut XT technology provides the next generation of higher productivity, increased flexibility and confidence in high precision plasma cutting. Their performance will meet or beat anyone on mild steel, and they are superior on non-ferrous metals. With the ability to grow with your business, you can expand from one system to the next higher in minutes. The Ultra-Cut XT systems utilize StepUp™ modular power technology, allowing units to be easily upgraded - ensuring you'll always have the right amount of power today - and tomorrow.*



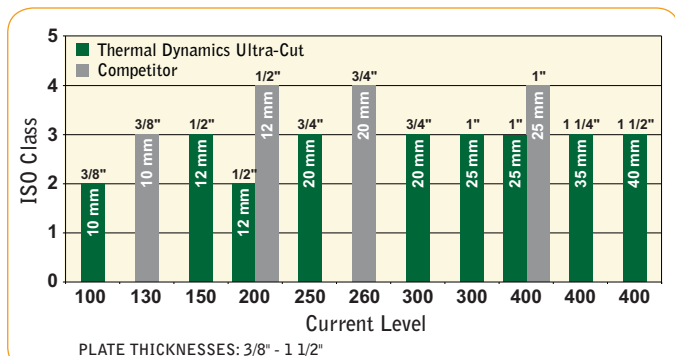
## Superior Cut Quality Means Greater Efficiency

The Ultra-Cut XT systems' superior cut quality means that parts can go directly from the cutting table to welding, painting or assembly without expensive secondary operations.

Ultra-Cut XT high precision plasma systems cut with:

- Excellent dross-free cuts using oxygen (O<sub>2</sub>) plasma on mild steel.
- Unmatched cut quality on non-ferrous metals using unique Water Mist Secondary (WMS®) process.

## Ultra-Cut Cut Bevel Comparison



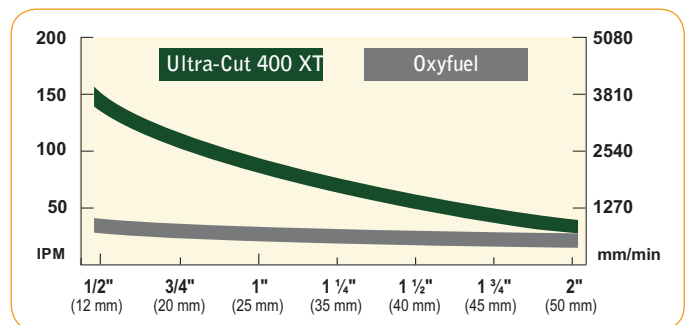
- ISO 9013:2002 (E). Class 3 (depending on cut thickness angles below 3 deg) or better cut angles for true High Precision cuts.
- Minimal heat affected zone (HAZ) to improve welding quality.
- 3DPro technology sets the new standard in robotic cutting thin gauge material.

## Higher Productivity Delivers Greater Profits

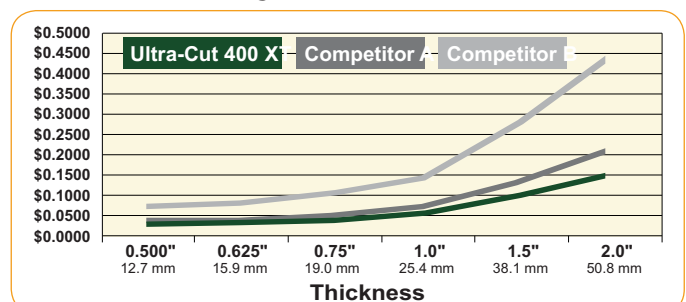
Ultra-Cut XT high precision systems deliver superior cut quality, at superior cutting speeds.

- Outstanding parts life to reduce down time and lower the overall cost of ownership.
- Highest kW output for maximized duty cycle and cut speed.
- Reduced downtime during parts changes with the Speedlok cartridge design.
- Lower current draw to reduce cutting cost.
- Shorter switching time between marking and cutting process for higher daily throughput.
- Highest cut speed in its class on stainless steel – up to 3 times faster than similar cutting systems.

## Relative Cutting Speed



## HeavyCut Technology Cuts Cost By Length on Mild Steel





# Thermal Dynamics Plasma Power - Ultra-Cut® XT Systems

## Now More Energy Efficient

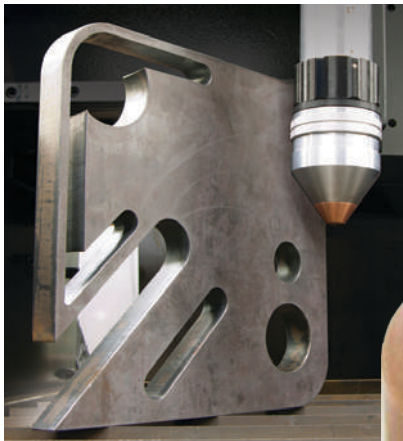
Compared to previous systems, Ultra-Cut XT systems draw about 20% less current and have an average electrical efficiency of more than 92%. They meet European Union Level V Efficiency Standards, and they will help companies everywhere lower utility bills.

## Intelligent Solutions Set Us Apart

From superior technology for cutting heavy metal to better plasma marking, Thermal Dynamics® offers intelligent high precision solutions for automated plasma cutting applications. The XT Series provides access for these powerful cutting resources.

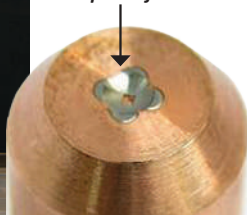
## HeavyCut™ Technology

When cutting parts thicker than 3/4" (20 mm), rely on HeavyCut Technology to provide the best cut quality, precision and parts life with XTremeLife™ Consumables. Heavy-Cut 300A and 400A electrodes with multiple

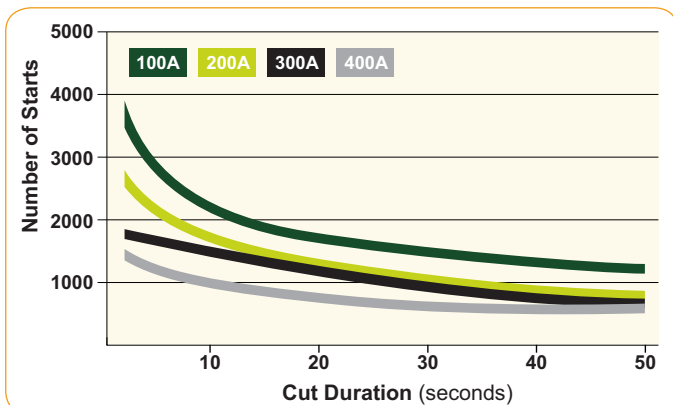


Hafnium inserts increase parts life at high current applications.

Multiple Hafnium



## Longer Parts Life with XTremeLife™ Consumables



## "Bolt Ready" Holes with Diameter PRO™

Diameter PRO produces the industry's most precise holes optimized for a diameter-to-thickness ratio of 1:1 or greater.

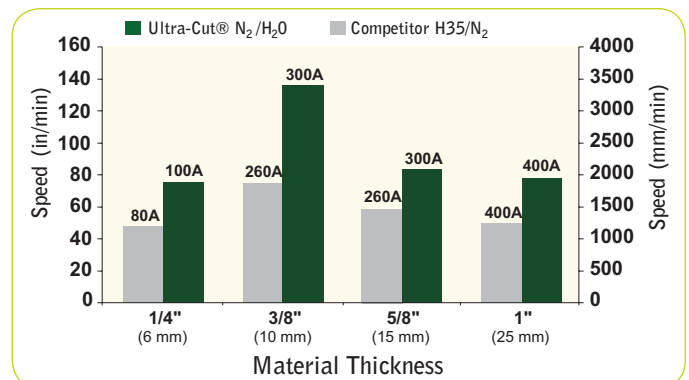
It is the ideal process for a precision hole or radius with minimal-to-no taper on mild steel from 10 gauge (3 mm) to 2" (50 mm), or 1" (25 mm) on aluminum.



## Water Mist Secondary (WMS) optimizes non-ferrous metal cutting

- Excellent non-ferrous metal cut quality using N2 as plasma gas and ordinary tap water as the secondary.
- Lowest operating cost.
- Dross-free cutting from gauge (1.0 mm) to 1 1/2" (40 mm).
- Oxide-free cut face surface.
- Wide parameter window.
- Higher cut speeds compared to H35 cutting.

## Stainless Steel Cutting Speed Comparison





# Thermal Dynamics Plasma Power - Ultra-Cut® XT Systems



***With StepUp™ Modular Power Technology, your system has the flexibility to grow with your business. You can start with an Ultra-Cut 100 XT, and when you are ready, expand to a 200, 300 or 400 Amp system. With the Ultra-Cut XT, you never have to worry about choosing the right system.***

## Added Flexibility - Expand As Your Cutting Needs Grow

Thermal Dynamics designed the Ultra-Cut® XT with the flexibility to grow with your business. It features modular “inverter blocks” and a common cabinet for all amperages. To expand a 100A system into a 200A, 300A or 400A system, additional blocks can be easily installed.\* A field technician can install a new inverter block in less than 30 minutes.

The Thermal Dynamics intelligent approach means never “under-buying” again. With Ultra-Cut XT systems, you’ll always have the right amount of power today — and tomorrow.

*\* When expanding by 200 or more amps, simply connect the required additional external cooler to the system, switch to correct consumables and you're ready to cut.*

## Easy-to-Service

The Ultra-Cut XT high precision system’s modular design is not only easier to upgrade, but also easier to maintain.

- The Amperage/Error display indicates the status of the XT system to accelerate trouble shooting.
- Common components in the XT system minimize inventory.

## Better Flow Control and Plasma Marking with the DFC-3000 Automatic Gas Control

Good gas flow control enhances cut quality and extends consumables life. Digital flow control with the DFC-3000 — when paired with the iCNC® XT controller — provides a better level of quality control. Together, they instantly set and control gas pressure, leading to faster cycle times and more productive cutting.

And for plasma marking with argon, the DFC-3000 and Ultra-Cut XT minimizes the purge cycle between marking and cutting, as well as the changeover time associated with manual controls. Change seamlessly between cutting and marking to:



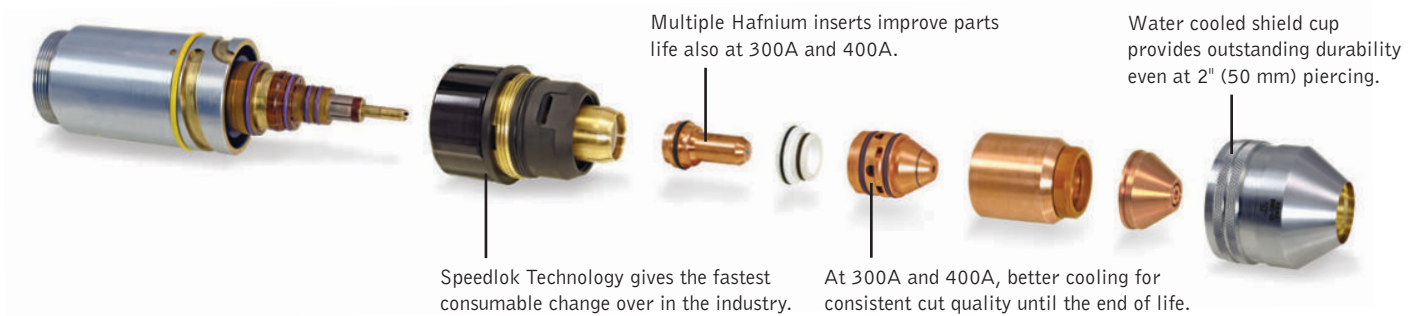
- Indicate part numbers
- Weld locations
- Lot numbers
- Drill or hole points
- Bend or cut lines

## Reliability – Performance You Can Rely On

Thermal Dynamics rigorously tests its plasma cutters to ensure flawless performance. Should your Ultra-Cut XT need service, our modular approach minimizes parts inventory and repair time. Even when one inverter block malfunctions, cutting is still possible with the remaining blocks.

# Thermal Dynamics Plasma Power - Ultra-Cut<sup>®</sup> XT Systems

## Xt<sup>™</sup> Torch Technology – The New Standard for High Precision Plasma Cutting Systems



### No Tools Required

Unlike other torches, no tools are required to change either the torch consumables or major components in the torch head.

### Precision Cuts on All Metals

The XT-Torch dual gas technology provides one of the highest arc density plasma stream in the industry for precision cuts on mild steel, stainless steel, aluminum and other non-ferrous materials, and Ar for marking with the DFC 3000. Choices for plasma gas include - Air, N<sub>2</sub>, O<sub>2</sub>, Ar-H<sub>2</sub> and Ar for marking with the DFC 3000. Shield gas choices include - Air, N<sub>2</sub>, O<sub>2</sub>, or Ar-H<sub>2</sub> and H<sub>2</sub>O.

### 'Leakless' Torch Head Design

Coolant doesn't drip from the torch head when the consumables cartridge is removed from the torch head.

The design prevents air from entering the system and becoming trapped in the leads.

### Self-Centering Components

Consumable parts and torch body are precisely engineered to lock into place for absolute alignment and remain positioned cut after cut. Independently-aligned tip and electrode assures accurate re-centering of the consumable cartridge after each parts change. This guarantees best cut quality time and again.

### Superior Warranty

Thermal Dynamics' XT-Torch warranty covers components and service for a full 1-year period.

### Relaxed Cutting Parameters

With the XT-Torch the operating window permits wide travel speed variance, which means you'll get great cuts more often with less wasted material and time.

- Less critical standoff height
- Wider 'Operating Window' for dross-free cutting

***The Ultra-Cut XT is the latest addition to Thermal Dynamics integrated automated plasma system solution. The next generation Ultra-Cut XT combines high precision cutting with exceptional cost-performance benefits to deliver a more profitable plasma cutting operation.***

# Thermal Dynamics Plasma Power - Ultra-Cut® XT Systems

## The XT™ System Technology

### Auto Gas Control DFC 3000

Digital Flow Control for optimized and easy set up for frequent changes between materials and thicknesses. A must for marking with Argon and fast switching between cutting and marking.

- Microprocessor controlled for optimized cut quality and parts life.
- Power upgrade. Inverter blocks can be easily added for higher cutting capacity.

### XT Torch

Fastest consumable changes with Speedlok technology.

### Manual Gas Control

GCM2010 for stable gas flow and pressure control.

### New Arc Starter

For reduced HF emission.

## ■ SYSTEM CAPABILITIES

		Ultra-Cut® 100 XT		Ultra-Cut® 200 XT		Ultra-Cut® 300 XT		Ultra-Cut® 400 XT	
MILD STEEL	Production Pierce	1/2"	(12 mm)	1"	(25 mm)	1 1/2"	(40 mm)	2"	(50 mm)
	Maximum Pierce	5/8"	(15 mm)	1-1/2"	(40 mm)	1-3/4"	(45 mm)	2"	(50 mm)
	Edge Start	3/4"	(20 mm)	1-1/2"	(65 mm)	3"	(75 mm)	3-1/2"	(90 mm)
STAINLESS STEEL	Production Pierce	1/2"	(12 mm)	1"	(25 mm)	1"	(25 mm)	2"	(50 mm)
	Maximum Pierce	5/8"	(15 mm)	1"	(25 mm)	1-1/4"	(30 mm)	2"	(50 mm)
	Edge Start	3/4"	(20 mm)	1"	(50 mm)	2"	(50 mm)	4"	(100 mm)
ALUMINUM	Production Pierce	1/2"	(12 mm)	7/8"	(20 mm)	1"	(25 mm)	2"	(50 mm)
	Maximum Pierce	5/8"	(15 mm)	1"	(25 mm)	1-1/4"	(30 mm)	2-1/4"	(60 mm)
	Edge Start	3/4"	(20 mm)	2"	(50 mm)	2"	(50 mm)	3-1/2"	(90 mm)



# Thermal Dynamics Plasma Power - Ultra-Cut® XT Systems



## UNIT SPECIFICATIONS\*

	Ultra-Cut® 100 XT	Ultra-Cut® 200 XT	Ultra-Cut® 300 XT	Ultra-Cut® 400 XT
Rated Output (Amps)	100 A	200 A	300 A	400 A
Output Range (Amps)	5-100 A	5-200 A	5-300 A	5-400 A
Output (Volts)	180 V	180 V	180 V	200 V
Input Volts (Volts, Phase, Hertz)	380 V, 3 ph, 50-60 Hz, 400 V, 3 ph, 50-60 Hz, 480 V, 3 ph, 50-60 Hz	380 V, 3 ph, 50-60 Hz, 400 V, 3 ph, 50-60 Hz, 480 V, 3 ph, 50-60 Hz	380 V, 3 ph, 50-60 Hz, 400 V, 3 ph, 50-60 Hz, 480 V, 3 ph, 50-60 Hz	380 V, 3 ph, 50-60 Hz, 400 V, 3 ph, 50-60 Hz, 480 V, 3 ph, 50-60 Hz
Input Amps (Amps, Volts)	33 A @ 380 V 31 A @ 400 V 26 A @ 480 V	65 A @ 380 V 62 A @ 400 V 52 A @ 480 V	97 A @ 380 V 93 A @ 400 V 77 A @ 480 V	144 A @ 380 V 137 A @ 400 V 114 A @ 480 V
Duty Cycle(@ 104°F/40°C)	100% (20 kW)	100% (40 kW)	100% (60 kW)	100% (80 kW)
Max OCV	425 V	425 V	425 V	425 V
Plasma Gas	Air, O2, Ar-H2, N2 @120 psi (8.3 bar) and Ar for marking with DFC 3000	Air, O2, Ar-H2, N2 @120 psi (8.3 bar) and Ar for marking with DFC 3000	Air, O2, Ar-H2, N2 @120 psi (8.3 bar) and Ar for marking with DFC 3000	Air, O2, Ar-H2, N2 @ 120psi (8.3 bar) and Ar for marking with DFC 3000
Shield Gas	Air, N2, O2 @ 120 psi (8.3 bar), H2O @ 10 GPH (0.6 l/min)	Air, N2, O2 @ 120 psi (8.3 bar), H2O @ 10 GPH (0.6 l/min)	Air, N2, O2 @ 120 psi (8.3 bar), H2O @ 10 GPH (0.6 l/min)	Air, N2, O2, Ar-H2 @ 120 psi (8.3 bar), H2O @ 10 GPH (0.6 l/min)
Power Supply Weight	410 lbs (186 kg)	451 lbs (205 kg)	537 lbs (244 kg)	555 lbs (252 kg)
Dimensions	48.0" x 27.5" x 40.6" (1219 mm x 698 mm x 1031 mm)	48.0" x 27.5" x 40.6" (1219 mm x 698 mm x 1031 mm)	48.0" x 27.5" x 40.6" (1219 mm x 698 mm x 1031 mm)	48.0" x 27.5" x 40.6" (1219 mm x 698 mm x 1031 mm)
Certifications	CSA, CE, CCC	CSA, CE, CCC	CSA, CE, CCC	CSA, CE, CCC

\* Subject to change without notice

## The Company Performance

## Before you order

1. We introduce and welcome you to SAI-WELD-INDIA ... the more you know about us the more confident you will be to work with us.
2. We offer professional, enthusiastic sales and service, understanding your cutting needs before making any recommendations or quotations.
3. We provide detailed and customized quotations for the cutting equipment that will best meet your unique needs, and answer any questions so you fully understand how our equipment will meet all your requirements.

## When you place an order:

1. We will provide you with a detailed order acknowledgement so you know exactly what equipment we will provide to you, and an estimated delivery date.
2. We will keep you informed regarding the progress of your order, by sending e-mail messages, often including pictures of your equipment during the production cycle.
3. We will provide installation instructions and preliminary documentation to help you prepare for the delivery, installation and commissioning of your cutting machine.
4. We will work with your freight forwarder to coordinate the shipment of your order to insure smooth, problem free delivery.

## After-Sales Service:

1. We offer fast response to customer needs for service and technical support ... we even have a service "hotline".
2. All standard machine parts are in stock, so replacement parts can be shipped very quickly if required.
3. Even when the warranty period is over, count on us to offer continued support.
4. It is our goal to help you succeed in your business!



# Marketing Network



## Service Department :

+91 99676 64493 / 72087 38910

## Sales Department :

+91 86920 00465

## **Sai Weld India**

### Office Address:

Add: 3A/301, Dheeraj Enclave, Opp. Bhor Industries,  
Western Express Highway, Borivali (E),  
Mumbai - 400 066, INDIA.  
Telefax: +91 22 2885 0341  
Email: mangesh\_wadekar2002@yahoo.com  
Website: www.plasmaconsumable.in

### Factory Address:

Add: Plot No. 16/448, Nighoje (Chakan), Tal - Khed,  
Dist. Pune - 410 501, INDIA.

### Contact Details:

Mangesh (Director): +91 99676 64493  
Shubhangi (Admin): +91 99674 10512  
Sales Department: +91 86920 00465  
Accounts Department: +91 22 2885 0341