



AJAN USA



CNC PLASMA & OXY FUEL CUTTING MACHINES

SINCE 1973



www.ajanusa.com

Since 1973

AJAN CNC specializes in producing CNC Plasma Cutting Machines since 1973.

AJAN CNC is one of the most trusted names in the plasma cutting industry that makes domestic production in its sector, as well as one of the most quality brands that has proven itself to the world with its machines operating in more than 70 countries.

AJAN produces technology, not importing it. Our goal is to be able to offer the advanced technology at an affordable cost and maintain continuous customer satisfaction before and after sales.

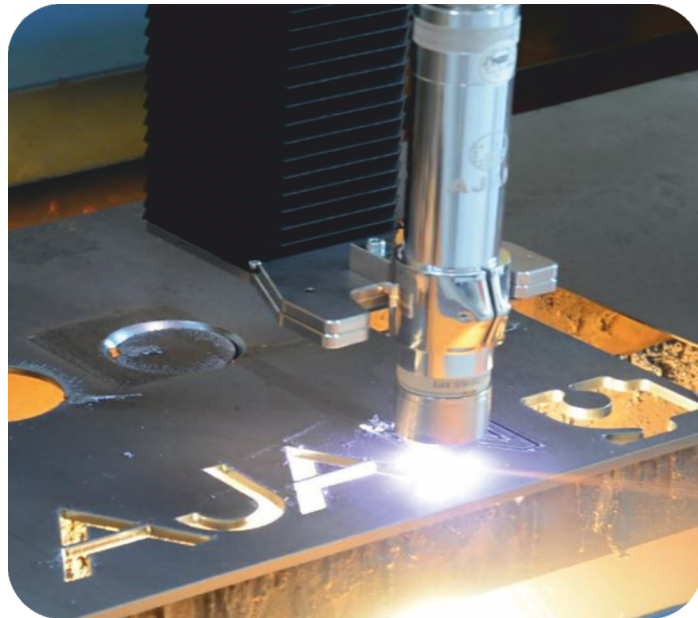


Permanent Solutions For All Problems

AJAN CNC offers permanent solutions for the customer concern or problems. Our great team consists of technical expert, engineer and drafters.

Depending on your demand or needs, AJAN CNC offers specific selections to raise your cutting quality.

To learn more about our solution methods, please contact our experts!



It's All About Customers

AJAN CNC is a company that focus on customer satisfaction.

Our Call Center was implemented to provide the highest quality of sales and service support. Prior to a sale, our skilled representatives will discuss your requirements and generate a solution to meet your needs.

Our well-educated support team is always ready to assist our customers because the most significant factor for us is Customer Satisfaction!



AJAN PLASMA TECHNICAL SPECIFICATIONS						
Material	Amperage	Gas	Min. Thickness in	Piercing Thickness in	Max. Thickness in	Plasma cutting gas consumption (Lt/Min.)
Mild Steel	30 AMP	O2 /O2	0.02	0.24	0.24	36.5
	40 AMP	O2/AIR	0.08	0.24	0.24	4.5
	80 AMP	O2/AIR	0.08	0.59	0.79	10
	130 AMP	O2/AIR	0.12	0.98	1.18	16
	260 AMP	O2/AIR	0.24	1.57	2.56	28.5
	260 AMP	H35/N2	1.57	1.57	3.94	-
Stainless Steel	45 AMP	N2/N2	0.03	0.16	0.16	70
		F5/N2	0.03	0.24	0.24	9.5 (F5) / 20 (N2)
	80 AMP	F5/N2	0.16	0.39	0.39	19 (F5) / 28 (N2)
		AIR/AIR	0.12	0.39	0.39	-
	130 AMP	N2/N2	0.24	0.59	0.79	78.5
		AIR/AIR	0.24	0.59	0.79	-
		H35/N2	0.39	0.79	0.98	30 (H35) / 48.5 (N2)
	260 AMP	AIR/AIR	0.24	0.98	1.97	-
		H35/N2	0.39	1.57	3.94	32 (H35) / 123 (N2)
Aluminium	45 AMP	N2/N2	0.05	0.16	0.24	52
	130 AMP	AIR/AIR	0.24	0.79	0.98	-
		H35/N2	0.24	0.79	0.98	29 (H35) / 40 (N2)
	260 AMP	AIR/AIR	0.24	0.98	3.94	-
		H35/N2	0.24	1.57	1.97	35 (H35) / 114 (N2)

Note: in a 50 liter and 230 bar pressure standard gas cylinder , the gas flow will be 50x230=11500 liter
For example : (The Oxygen flow needed for cutting mild Steel with 130 Ampere) 11500/16 Lt/Min. = 719 minutes = approximately 12 hours continuously cutting. 16 Lt/Min. : Cutting gas consumption value from the table.

According to ISO 9013 standards with a 20 seconds period of linear mild steel cutting angles are given below.

ISO 9013 Range 3

Angle : 2.86°
Angle : 2.48°
Angle : 1.71°

AJAN PRECISION
PLASMA SERIES

ISO 9013 Range 4

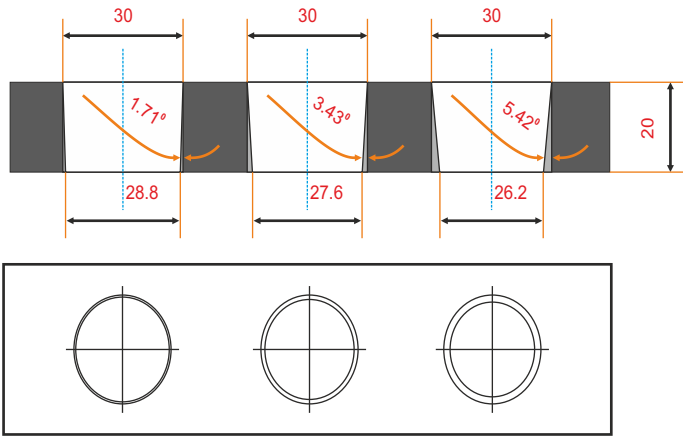
Angle : 5.71°
Angle : 4.95°
Angle : 3.43°

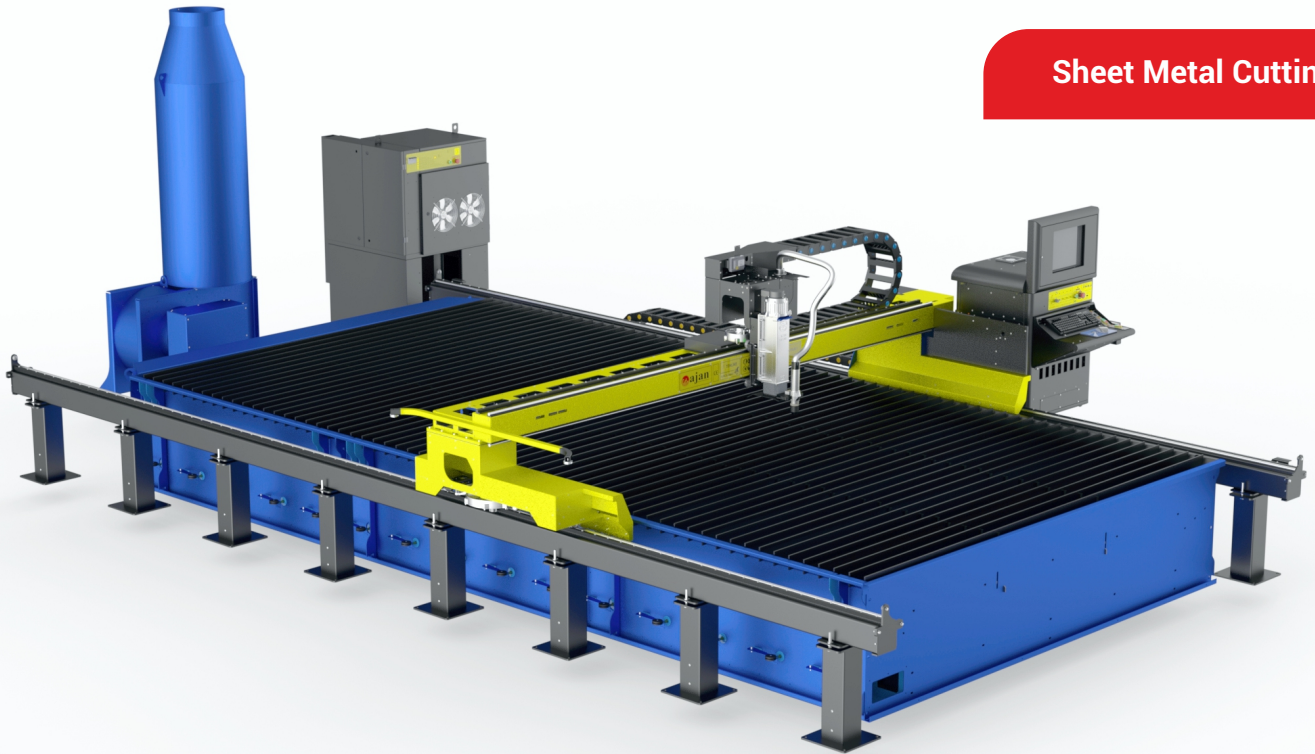
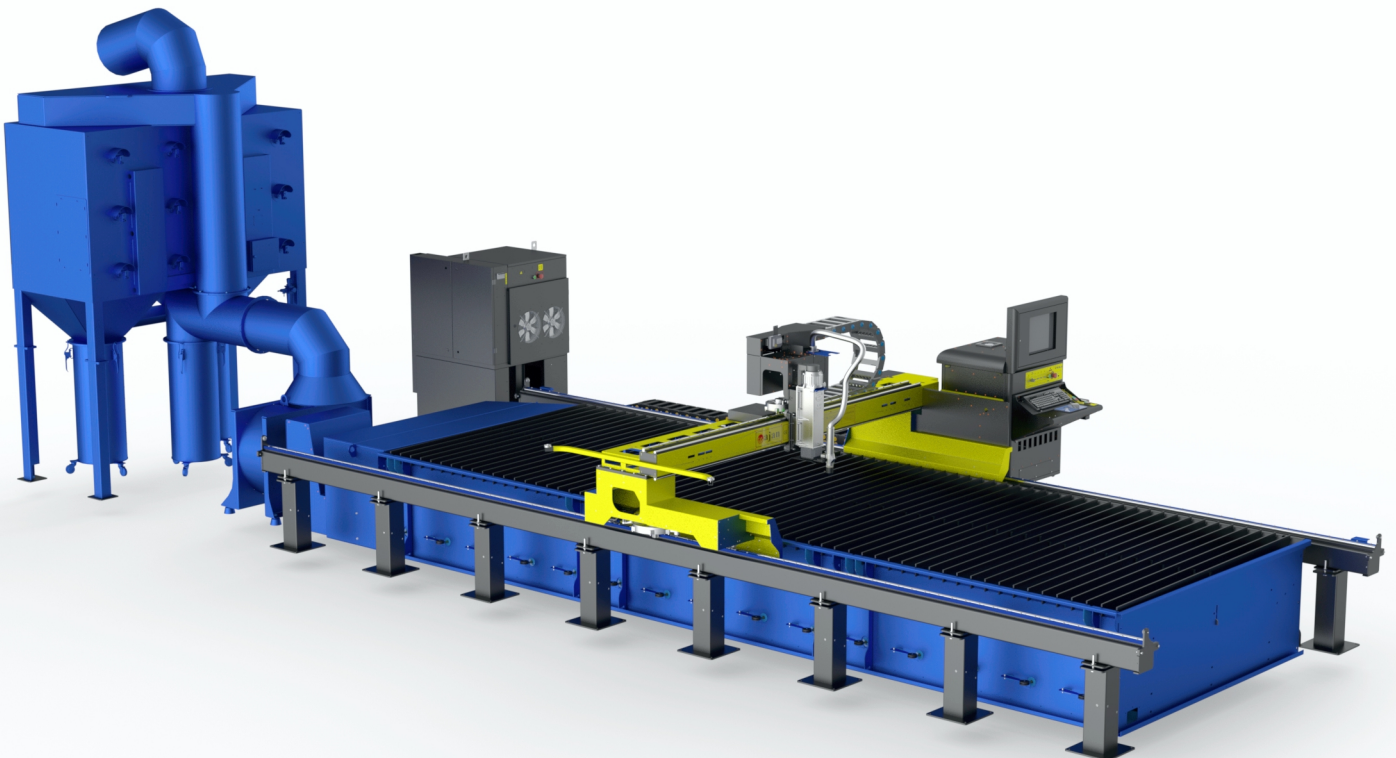
AJAN P STANDARD
CUTTING SERIES

ISO 9013 Range 5

Angle : 8.81°
Angle : 7.68°
Angle : 5.42°

OTHER MANUFACTURERS STD.
CUTTING SERIES



Sheet Metal Cutting**Sheet Metal Cutting with Jet Filter**

- **Microjoint Hardware**

(preventing small parts from falling down by connecting them with the main plate through mini bridges).

- **Optimizing the hole quality** by using the **OPTOHOLE** technology.
- Automatic sheet metal reference point.
- Steel structure and smog extraction
- Central control panel
- Dual side rack, pinion system AC Servomotor on X axis, and Y axis.
- Precision Plasma 130/260 Ampere.
- Automatic CNC gas control.
- Automatic torch height control.
- Initial height control can be done with Ohmic, Switch and Arc sensing.
- The ability to go back to any position and resume cutting.
- Resume feature.
- Effective cutting without reducing the cutting speed for the vectors which have the same start and end angles (High speed machining)
- Standard Marking on Precision Plasma
- The possibility to override all the parameters while the machine is working.
- Free AJAN Drawing software.
- 49 ft/min rapid traverse speed.
- X length can be extended on request.
- Working with standard DIN/ISO G Codes.
- Possibility of working with DXF,ESSI and NC toolpath files.



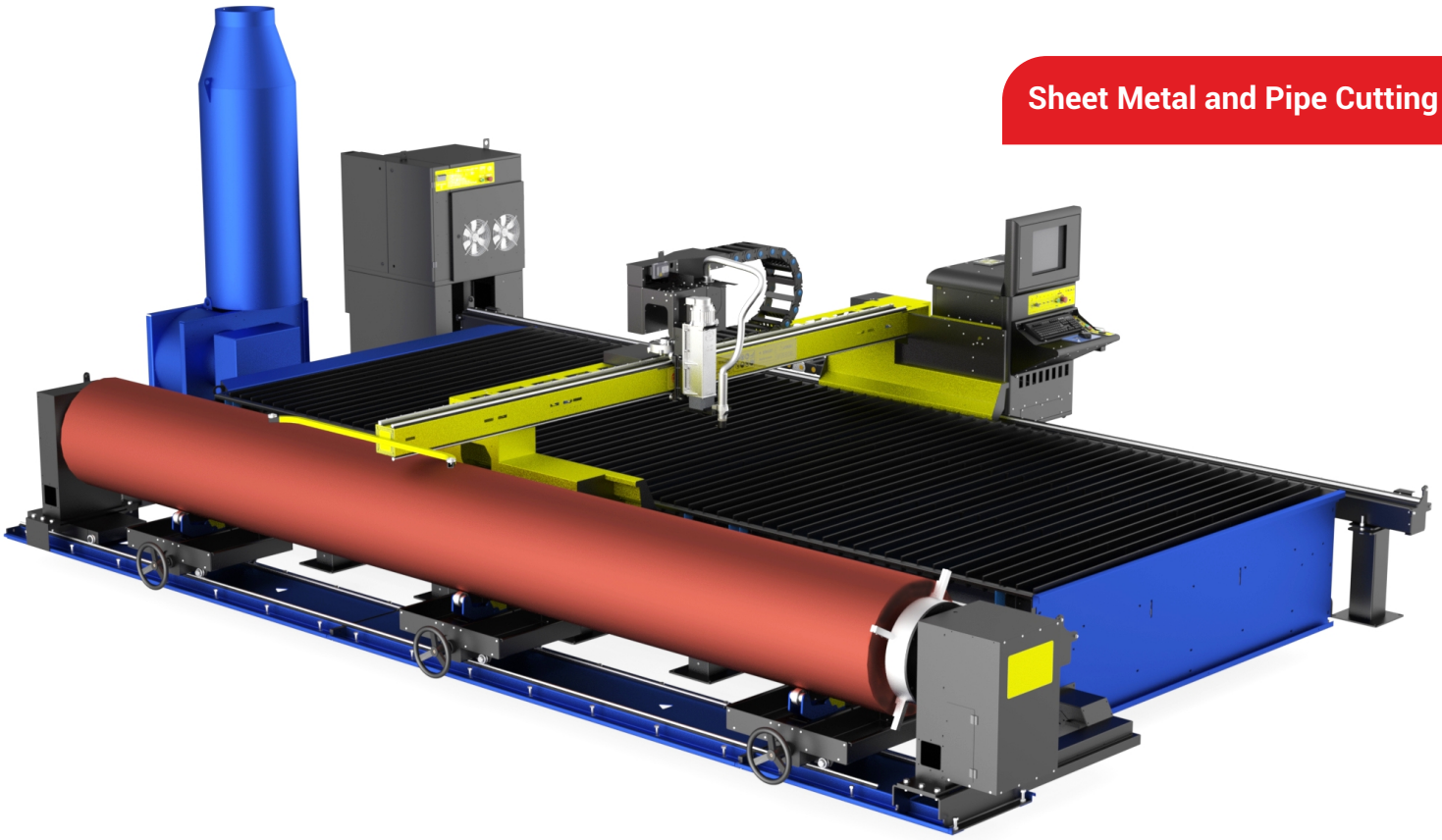
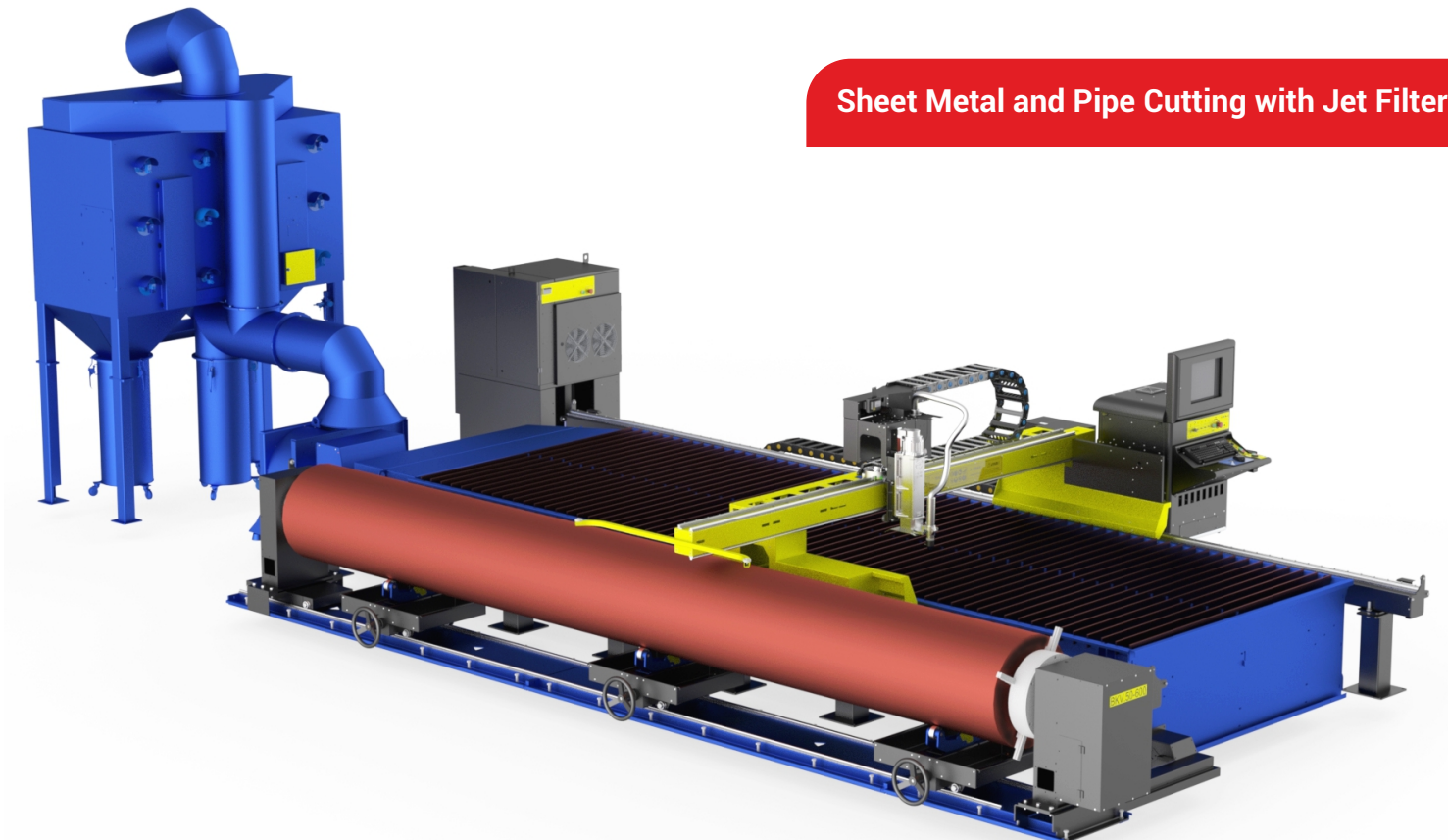
3/8 " Steel



1" Stainless Steel



1/2 " Aluminium

Sheet Metal and Pipe Cutting**Sheet Metal and Pipe Cutting with Jet Filter**

- Ability to cut pipes ranged between 2" and 24" diameter
- Steel constructed body
- Precision Plasma 130 / 260 Amper Generator
- Marking
- Automatic Torch Height Control
- Working with standart DIN / ISO G codes ability
- Ability of working with DXF and NC toolpath files
- Resume Feature
- Backward contour positioning
- Automatic Microjoint

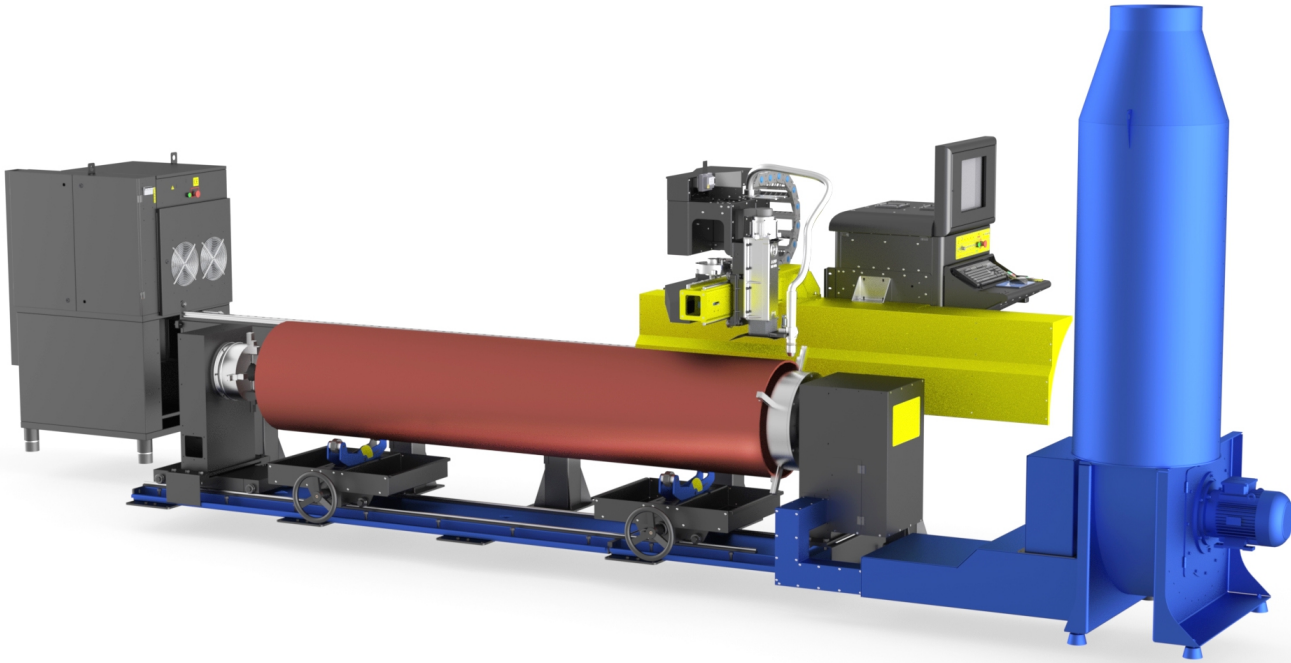
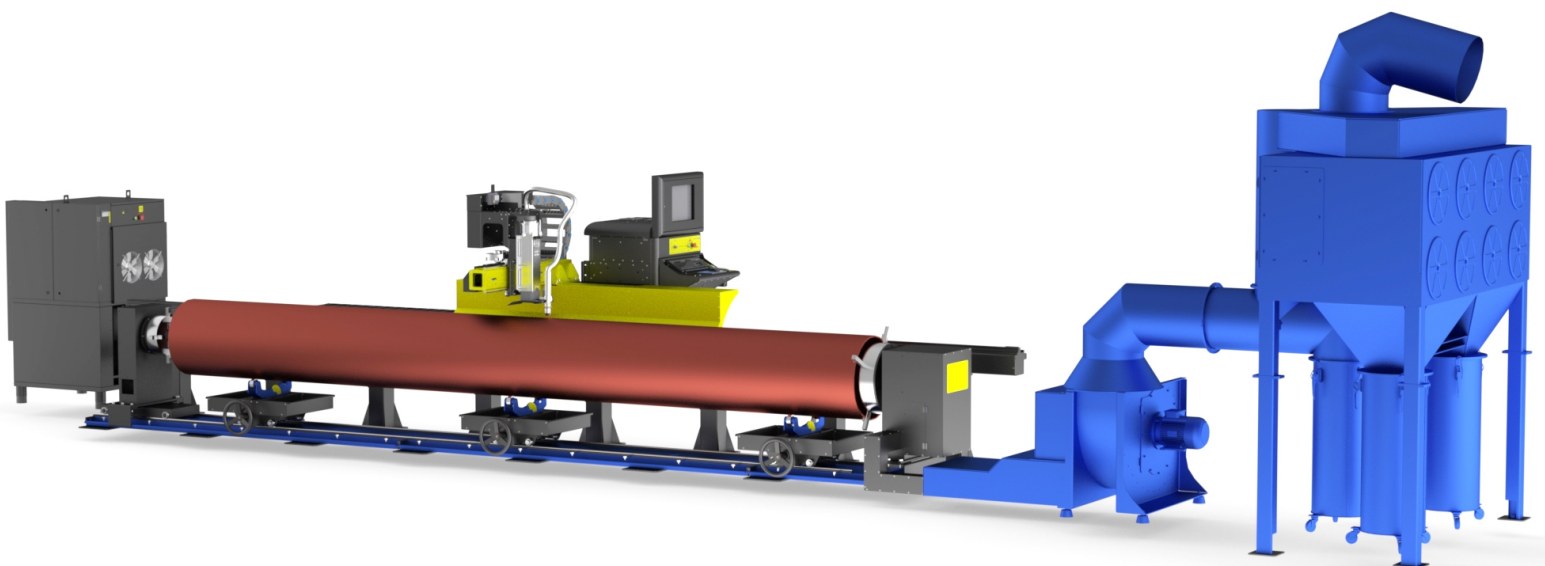


COMBINED PIPE CUTTING UNIT

X Axis(Pipe Length)	20 to 40 ft
Min Working Diameter	Ø 2"
Max Working Diameter	Ø 24"
Max Pipe Thickness	
130 Ampere	1"
260 Ampere	1.57"

•Custom lengths can be produced by request



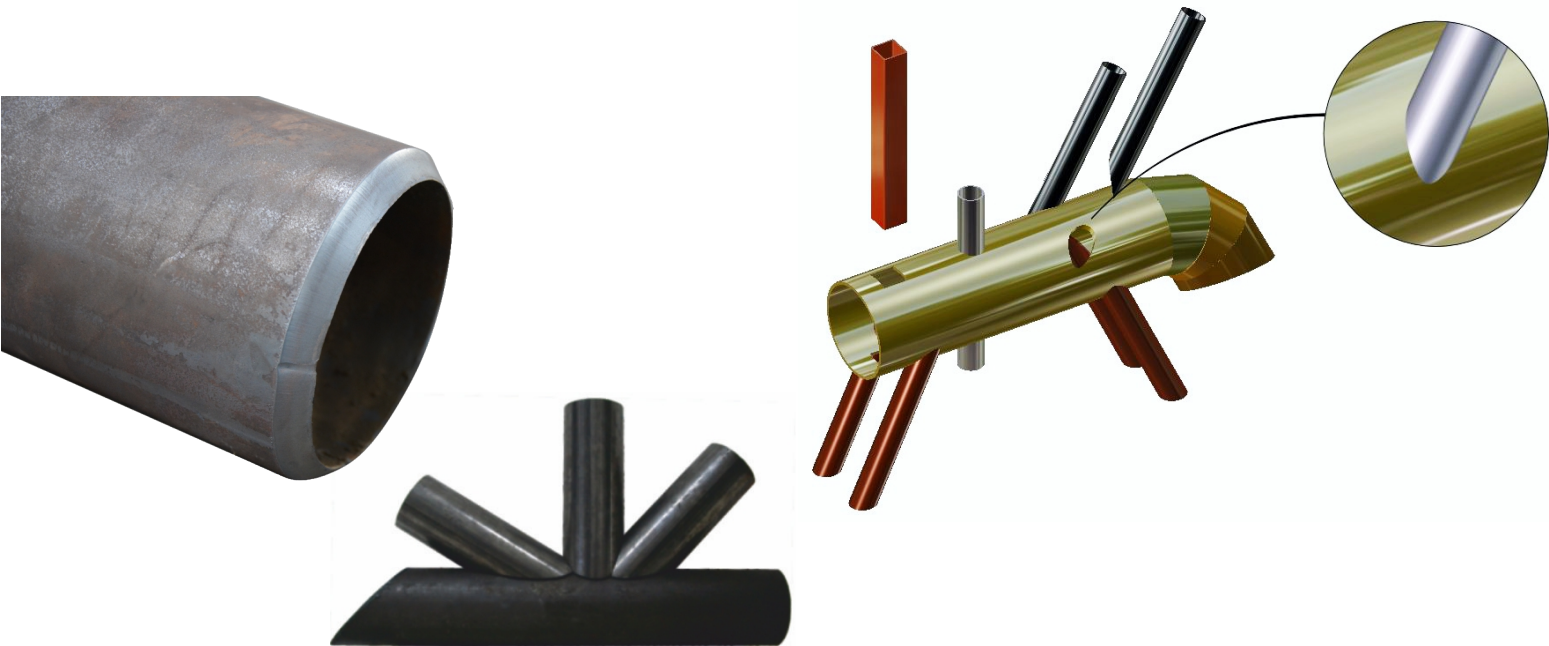
Plasma Pipe Cutting**Plasma Pipe Cutting With Jet Filter**

CNC PLASMA PIPE CUTTING MACHINES have been designed for satisfying the requirements of the users to be able to cut pipes and sheet metal. First of all, the most important differences from the similar machines are that the conventional plasma cutting generator hasn't been used and it has been equipped with Precision Plasma series 130 Ampere or 260 Ampere precise cutting plasma generator, torch and the required gas selections can be made automatically. For that reason, it can cut steel, chrome and aluminium pipes with high accuracy.

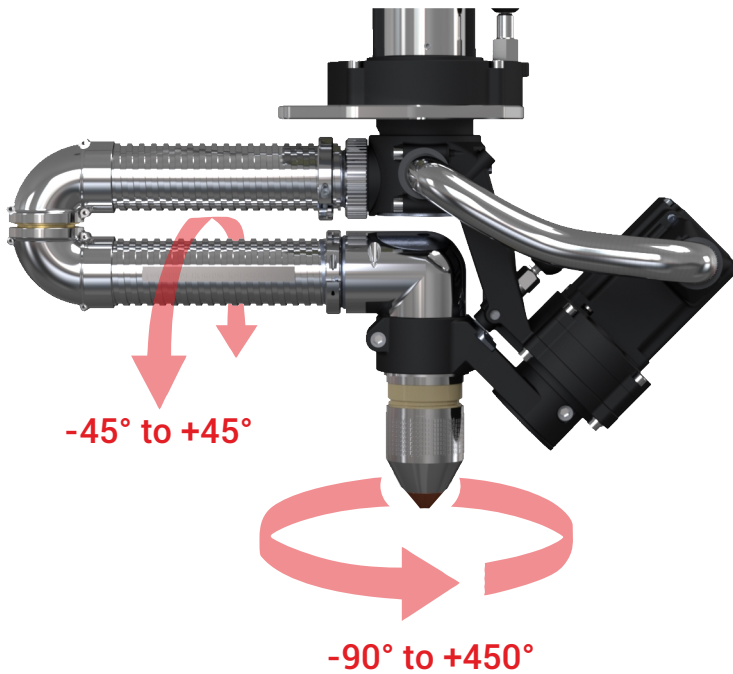
X Axis(Pipe Length)	20 ft	40 ft
Min Working Diameter	Ø 2"	Ø 2"
Max Working Diameter	Ø 24"	Ø 24"
Max Pipe Thickness		
130 Ampere	1"	1"
260 Ampere	1,57"	1,57"

* Maximum pipe thickness represent the maximum thickness that the plasma machine can cut. The pipe diameter and pipe length are important factors. The maximum pipe thickness is changible according to the pipe length. For more information about this subject contact 470-970-2526

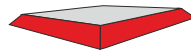
*Custom lengths can be produced by request



5 AXIS BEVEL CUTTING



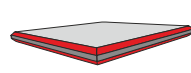
- Compact Design
- The Worlds Lightest Bevel Head
- Full Collision Protection
- Beveling Range From 0 to 45° Deg 0-540° Rotation ability
- Different weld grooves Y - Groove, V-Groove Bevel-Square-Bevel, X - Groove, Different Thickness
- Automatic chamfering of any 2 dimensional geometry with one click
- Maximum One Button Press You Can Change The Cutting From Square to Bevel



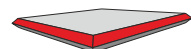
V - Groove



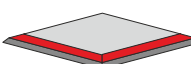
Y - Groove



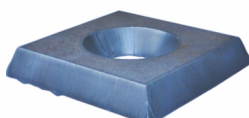
Bevel-Square-Bevel



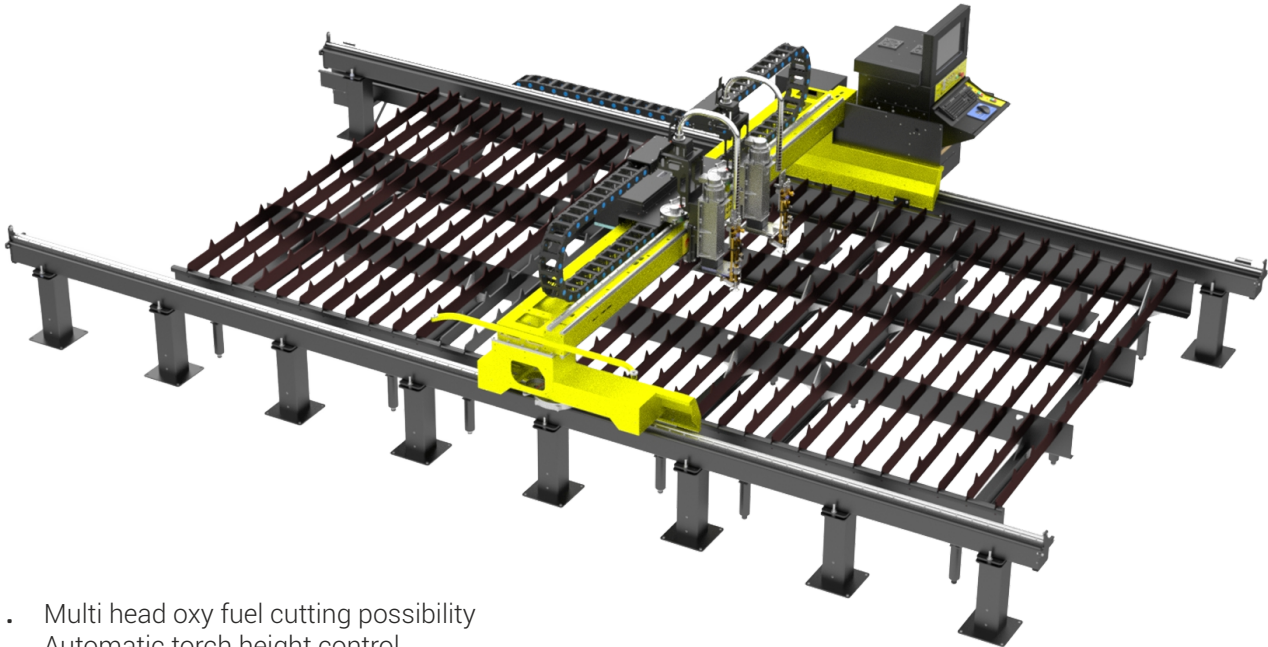
X - Groove



Different Thickness



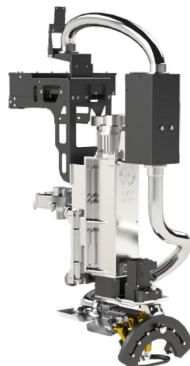
Ajan Oxy-fuel cutting system with its CNC control unit provides an efficient cutting up to 8" thickness of mild steel. An optional manual bevel cutting adapter is available.



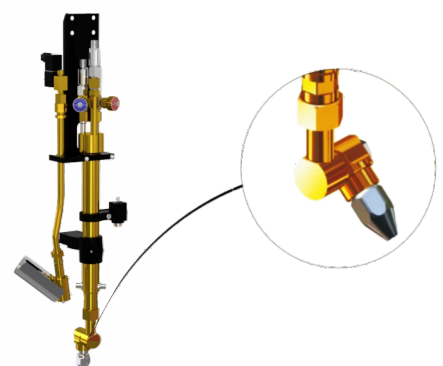
- Multi head oxy fuel cutting possibility
- Automatic torch height control
- Automatic oxy fuel ignition
- Automatic or manual CNC gas control (console)
- Quickly switching between Plasma and Oxy mode on the keyboard



STANDARD OXY CUTTING



AJAN OXY GRID CUTTING SYSTEM



MANUAL BEVEL OXY CUTTING



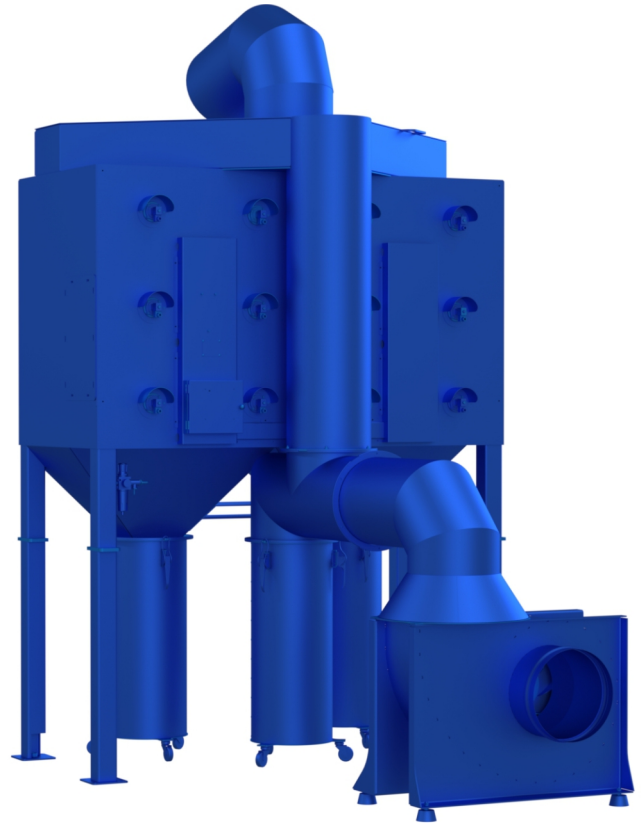
Ajan Jet Filter System are specially designed for heavy industry conditions. As a result of long lasting research and development work; with less air consumption and automatic filter cleaning property, the operation costs are reduced to minimum

TECHNICAL SPECIFICATIONS

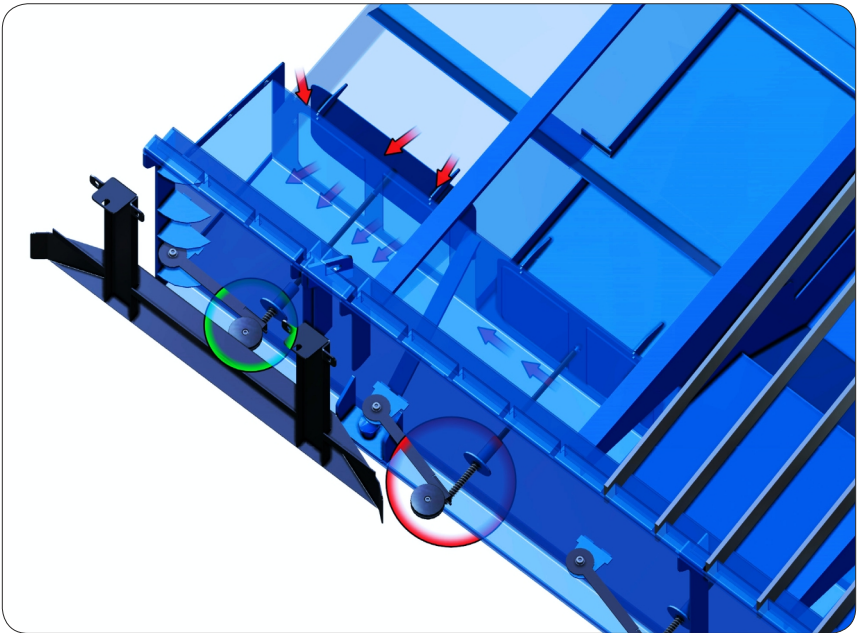
- Efficient filtering, more than %99
- Filtering is done, by applying pulse pressure
- Flame resistant filters
- High volume particles collecting buckets
- Self cleaning feature
- Low operation costs



JET FILTER CARTRIDGE



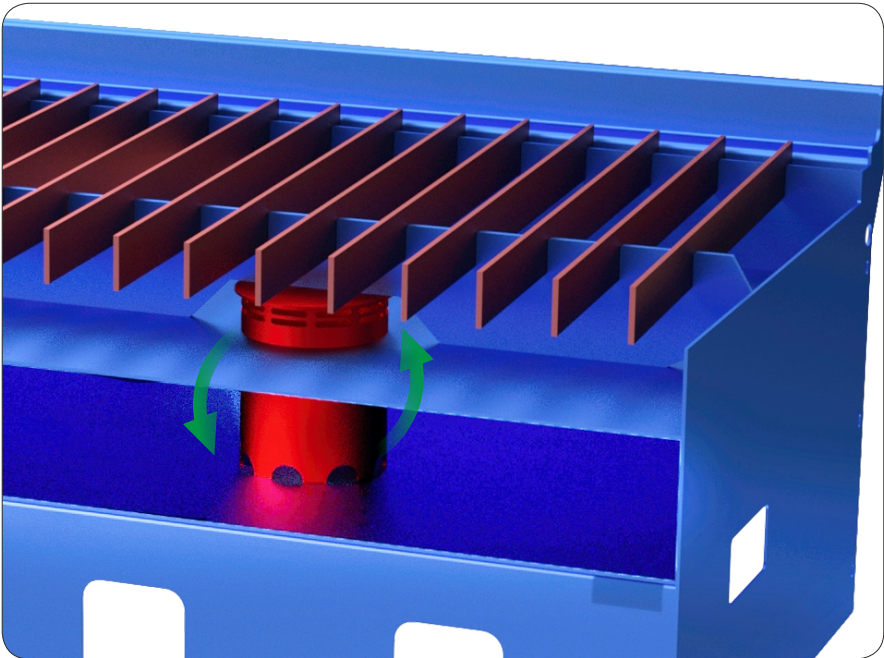
	AJF8	AJF12	AJF16
Max air volume m ³ / hour	8000	12000	16000
Filter quantity	8	12	16
Total filtered area	2067 ft ²	3100 ft ²	4133 ft ²
Input voltage	220V / 50Hz	220V / 50Hz	220V / 50Hz
Efficiency	99.9%	99.9%	99.9%
Cleaning method	Pressurized air	Pressurized air	Pressurized air
Dust holding bucket number	3	3	3
Height	9 ft	10.5 ft	12 ft
Width	11.29 ft	11.29 ft	11.29 ft
Length	5.76 ft	5.76 ft	5.76 ft
Weight	3417 lb	4189 lb	4905 lb



CUTTING TABLE WITH MECHANICAL SMOG EXTRACTION SYSTEM

It works on the principle that the pressure plate on the bridge unit of the machine opens the countertop mechanical pressure arms. Harmful smog will be absorbed from the doors when opened only when the torch is in the active cutting area which eliminates the need for powerfull suction fan and removed from the environment. The system, removes the need for additional maintenance and complications brought by the pneumatic systems.

Slag and wastage formed after cutting accumulate in buckets inside the bench. In order for the ventilation to work long-lasting and healthy, this bucket must be emptied by lifting a crane at intervals according to the occupancy rate.

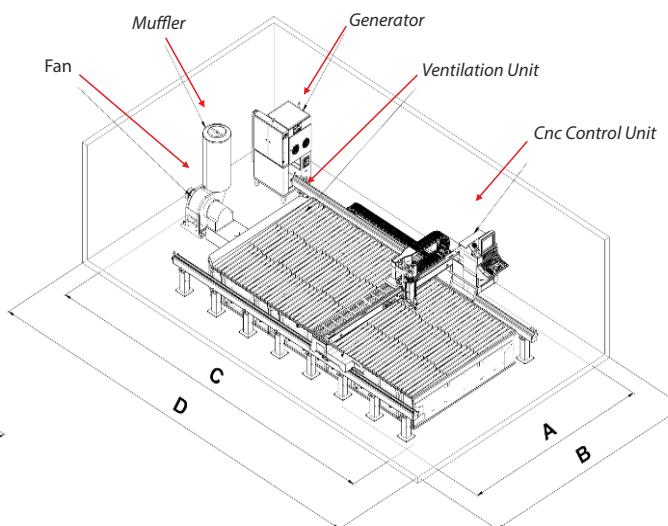
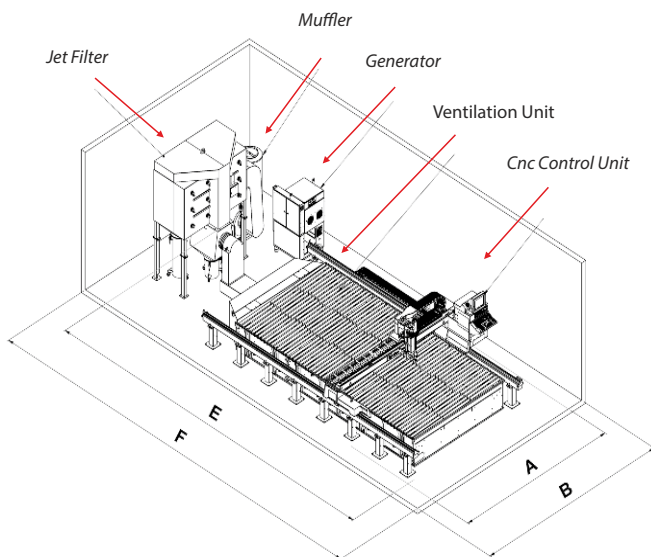


WATER TABLE CUTTING SYSTEM

In this system, which does not require a fan and a separate filter, cutting is done in water. The smoke generated during the process is absorbed in the pool filled with water, and at the same time, slag and sediments accumulate at the bottom of the pool. When you want to clean, the water in the pool is taken to the lower reservoir. All operations for adjusting water levels are carried out with the help of compressed air.

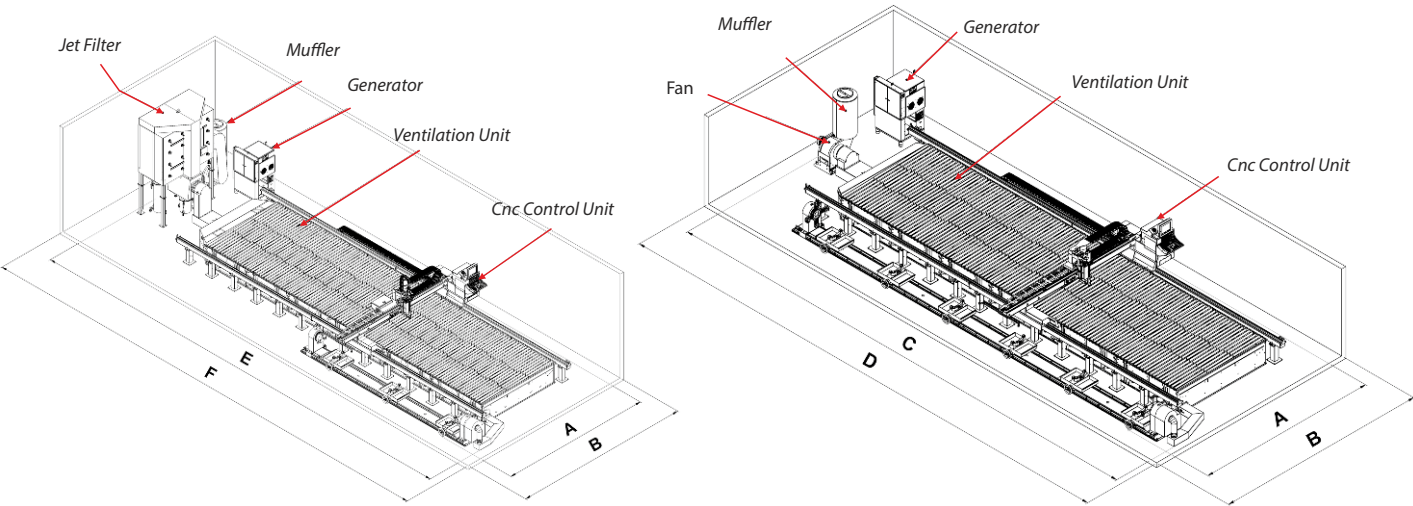
Machine Length (X Axis)			GANTRY SIZE (Y Axis)					
			5Feet	6.5 Feet	8 Feet	10 Feet	11.5 Feet	13 Feet
10 feet	Machine size	(A x C)	11x19	13x19	14x19	16x59	-	-
	Layout	(B x D)	15x23	17x23	18x23	19x23	-	-
	Machine with filter	(A x E)	11x24	13x24	14x24	16x24	-	-
	Layout with filter	(B x F)	15x29	17x29	18x29	19x29	-	-
13 feet	Machine size	(A x C)	11x24	13x24	14x24	16x24	-	-
	Layout	(B x D)	15x28	17x28	18x28	19x28	-	-
	Machine with filter	(A x E)	11x28	13x28	14x28	16x28	-	-
	Layout with filter	(B x F)	15x33	17x33	18x33	19x33	-	-
20 feet	Machine size	(A x C)	11x30	13x30	14x30	16x30	18x30	20x30
	Layout	(B x D)	15x34	17x34	18x34	19x34	21x34	23x34
	Machine with filter	(A x E)	11x34	13x34	14x34	16x34	18x34	20x34
	Layout with filter	(B x F)	15x39	17x39	18x39	19x39	21x39	23x39
26 feet	Machine size	(A x C)	11x36	13x36	14x36	16x36	18x36	20x36
	Layout	(B x D)	15x40	17x40	18x40	19x40	21x40	23x40
	Machine with filter	(A x E)	11x40	13x40	14x40	16x40	18x40	20x40
	Layout with filter	(B x F)	15x45	17x45	18x45	19x45	21x45	23x45
29.5 feet	Machine size	(A x C)	11x40	13x40	14x40	16x40	18x40	20x40
	Layout	(B x D)	15x45	17x45	18x45	19x45	21x45	23x45
	Machine with filter	(A x E)	11x45	13x45	14x45	16x45	18x45	20x45
	Layout with filter	(B x F)	15x50	17x50	18x50	19x50	21x50	23x50
33 feet	Machine size	(A x C)	11x43	13x43	14x43	16x43	18x43	20x43
	Layout	(B x D)	15x48	17x48	18x48	19x48	21x48	23x48
	Machine with filter	(A x E)	11x48	13x48	14x48	16x48	18x48	20x48
	Layout with filter	(B x F)	15x53	17x53	18x53	19x53	21x53	23x53
40 feet	Machine size	(A x C)	11x50	13x50	14x50	16x50	18x50	20x50
	Layout	(B x D)	15x54	17x54	18x54	19x54	21x54	23x54
	Machine with filter	(A x E)	11x54	13x54	14x54	16x54	18x54	20x54
	Layout with filter	(B x F)	15x59	17x59	18x59	19x59	21x59	23x59

Please request layout plan for custom machines.



Machine Length (X Axis)			GANTRY SIZE (Y Axis)					
			5Feet	6.5 Feet	8 Feet	10 Feet	11.5 Feet	13 Feet
10 feet	Machine size	(A x C)	14x21	15x21	17x21	19x21	-	-
	Layout	(B x D)	17x23	19x23	20x23	22x23	-	-
	Machine with filter	(A x E)	14x26	15x26	17x26	19x26	-	-
	Layout with filter	(B x F)	17x29	19x29	20x29	22x29	-	-
13 feet	Machine size	(A x C)	14x26	15x26	17x26	19x26	-	-
	Layout	(B x D)	17x28	19x28	20x28	22x28	-	-
	Machine with filter	(A x E)	14x30	15x30	17x30	19x30	-	-
	Layout with filter	(B x F)	17x33	19x33	20x33	22x33	-	-
	Machine size	(A x C)	14x32	15x32	17x32	19x32	20x32	20x22
	Layout	(B x D)	17x34	19x34	20x34	22x34	24x34	23x26
	Machine with filter	(A x E)	14x36	15x36	17x36	19x36	20x36	20x22
	Layout with filter	(B x F)	17x39	19x39	20x39	22x39	24x39	23x26
26 feet	Machine size	(A x C)	14x38	15x38	17x38	19x38	20x38	20x22
	Layout	(B x D)	17x40	19x40	20x40	22x40	24x40	23x26
	Machine with filter	(A x E)	14x42	15x42	17x42	19x42	20x42	20x22
	Layout with filter	(B x F)	17x45	19x45	20x45	22x45	24x45	23x26
29.5 feet	Machine size	(A x C)	14x42	15x42	17x42	19x42	20x42	20x22
	Layout	(B x D)	17x45	19x45	20x45	22x45	24x45	23x26
	Machine with filter	(A x E)	14x47	15x47	17x47	19x47	20x47	20x22
	Layout with filter	(B x F)	17x50	19x50	20x50	22x50	24x50	23x26
33 feet	Machine size	(A x C)	14x45	15x45	14x45	19x45	20x45	20x22
	Layout	(B x D)	17x48	19x48	20x48	22x48	24x48	23x26
	Machine with filter	(A x E)	14x50	15x50	17x50	19x50	20x50	20x22
	Layout with filter	(B x F)	17x53	19x53	20x53	22x53	54x53	23x26
40 feet	Machine size	(A x C)	14x51	15x51	17x51	15x51	20x51	20x22
	Layout	(B x D)	17x54	19x54	20x45	22x54	24x54	23x26
	Machine with filter	(A x E)	14x56	15x56	17x56	19x56	20x56	20x22
	Layout with filter	(B x F)	17x59	19x59	20x59	22x59	24x59	23x26

Please request layout plan for custom machines.





- Min Windows 10 Operating System
- Celeron i5
- 8 GB Ram
- 128 GB SSD Harddisk
- 21.5" LCD Monitor
- USB Support
- Wifi Connection

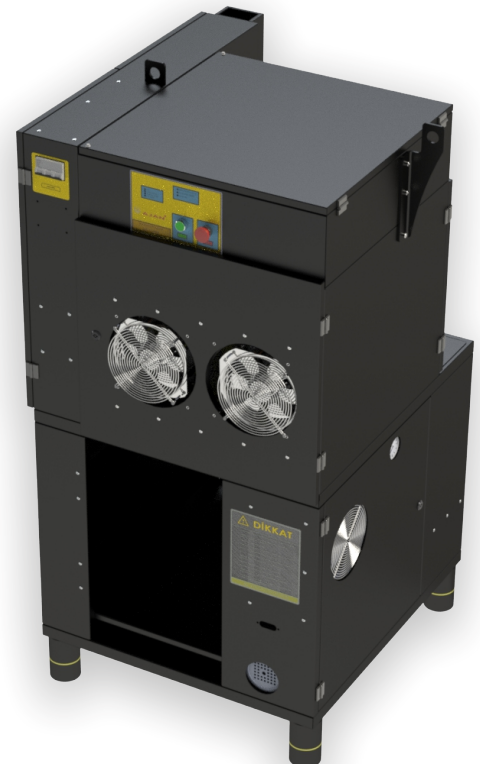


CNC Hand Control

TECHNICAL SPECIFICATIONS

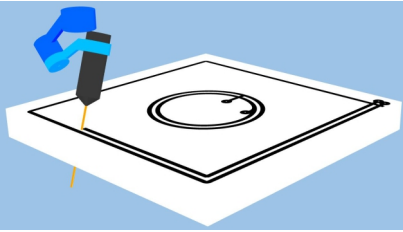
- All inclusive control panel (Dryer, ventilation, generator, jet filter)
- Free AJAN CAD program and Geometric Shapes Library.
- Automatically cutting resume at break point after electricity shut down.
- Working with standard ESSI, ISO, G codes. DXF files.
- Leaves kerf width on the program to the cutting process.
- Free software updates from the internet.
- Language options as; Turkish and English.
- Automatically defining the sheet metal angle.
- The CNC Unit is made completely in AJAN Company so the client can get all his service needs, solutions and spare parts directly from AJAN.

Ajan Cnc produces all machine parts in its own factories; the plasma generator, CNC unit, cutting torch, consumables, servo motors, moving parts, all electronic parts and steel structure, which gives the company great advantage in sales and after sales.




AJANCAM LAYOUT AND OPTIMIZATION SOFTWARE

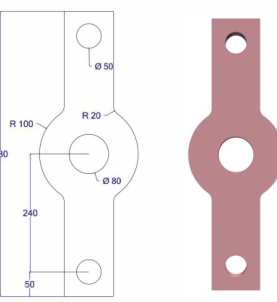
3D SIMULATION



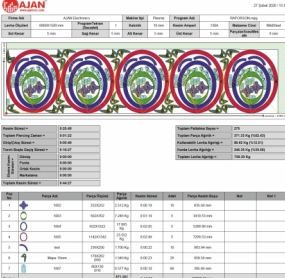
NESTING AND OPTIMIZATION



AJANCAD

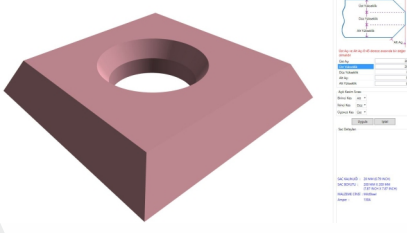


CUTTING REPORTS



Order No.	Part No.	Part Name	Material	Quantity	Unit Price	Total Price	Remarks
1	001	001	001	001	001	001	001
2	002	002	002	002	002	002	002
3	003	003	003	003	003	003	003
4	004	004	004	004	004	004	004
5	005	005	005	005	005	005	005
6	006	006	006	006	006	006	006
7	007	007	007	007	007	007	007
8	008	008	008	008	008	008	008
9	009	009	009	009	009	009	009
10	010	010	010	010	010	010	010

BEVEL CUT



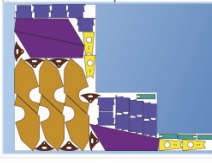
AJAN is a globally known brand in metal cutting and machining. In software field AJAN provides effective solutions to the customers with the self-developed nesting software program named AJANCAM. Ajancam automatic nesting and optimization software is easy to learn and practical to use. Ajancam increases the productivity providing quick and effective machining with less remnants. New versions of Ajancam will be developed and released in consideration of customer satisfaction and their feedback. With 40 years of experience all parts of CNC machines including generators, servo motors, torches and CNC Units are manufactured by AJAN. Moreover AJAN is the first company in this sector which developed its own Nesting Software Program.

ADVANTAGES

- Works with Microsoft operating systems.
- Can be installed on many computers with no restrictions.
- Has online connection software built in for remote technical support.
- Free of charge Call Center technical support
- **470-970-2526**
- Works only with AJAN CNC machines; one software can create CAM file for Plasma ;Laser; Oxy fuel ;Pipe cutting and Bevel Cutting.
- Very Easy to learn .any user with simple Cad software background can learn it in one session.
- Three Steps Cutting process.
- 1- AJAN CAD for designing and editing the parts.
- 2- AJAN CAM to optimize the nesting of the parts with minimum wastage and officiant tool paths.
- 3- Saving the nested parts and send it to the

Stok Takip Ekranı

Kod	Malzeme	Kalınlık	Uzunluk	Geniçlik	Miktar	Toplam Ağırlık	Birim Fiyat	Toplam Fiyat	Tarih
a	Steel	10	6000	1500	15	106245	2.62	27836.19	8/23/20
a-1	Steel	10	6000	1500	0	0	0	0	8/23/20
b-6	Steel	5	3517	4000	1	4866	0	0	8/14/20
c	Steel	10	3219.5	1500	1	192.68	0	0	8/14/20
inch	Steel	0.394	48.07	59.06	1	215.72	0	0	8/14/20
A	Steel	10	761.5	1500	1	19.08	0	0	8/18/20
B	StainlessSteel	50	12000	3000	30	432000	3.65	1576800	8/20/20
a-2	StainlessSteel	5	4000	1500	1	117.84	0	0	8/21/20
a2	Steel	8	999.25	515	1	30.44	0	0	8/25/20



Yatay Aynalama Saat Yönü Ters Döndür
Dikey Aynalama Saat Yönünde Döndür

Ekle Düzenle Kaldır
Kaydet Kullan Kapat

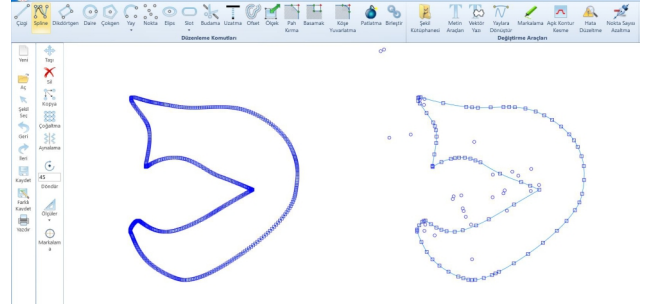


TECHNICAL SPECIFICATION

CAD-DESIGN Module

- Reduce nodes feature used with big complicated shapes.
- Visual Error Detection and Fixing.
- Easy TEXT feature with ability to extract the letters from words.
- Drawing and modifying commands.
- Automatic marking.
- Automatic open vector cutting.

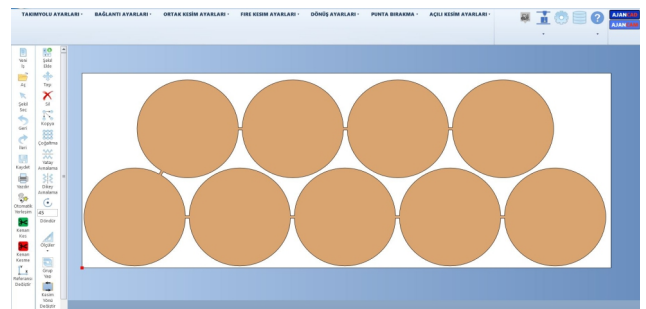
Reduce Nodes Feature



CAM-NESTING Module

- Sheet stock management module and control panel.
- Common cut feature reduce the remnants and increase the consumables life.
- Parts Connect feature: with one piercing action multiple parts cutting results in increased consumable life and ease of part collecting process.
- Sharper shape corners with LOOPS feature.
- Microjoint feature.
- Automatically shape extracting from CAD drawing with multiple shapes.
- Active UNDO/REDO feature in CAD and CAM modules.
- The ability to save the prepared nesting to use it in other time.
- Partial automatic, partial Manuel nesting feature.
- Ability to add parts and sheets when needed.
- Automatic and Manuel nesting features.
- Interactive positioning: rotating–coping–mirroring–moving
- Optional cutting strategies on the X-Y direction for toolpath optimization.
- Automatic and Manuel remnant cutting.

Connect Part Feature



REPORT OUTPUT

- Automatic CNC code .
- Simulation of nesting cutting order.
- PDF Report System: Nesting view, sheet size, material, cutting ampere, cutting order, part weight, total parts weight, part cutting time, sheet weight, total cutting time, cutting length nesting information, all necessary data for cost accounting.
- Cutting cost calculation.

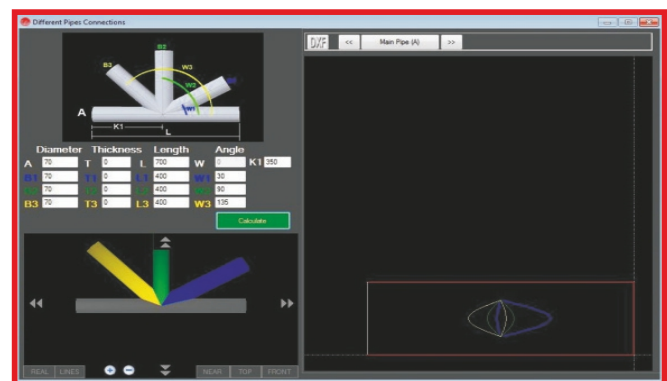
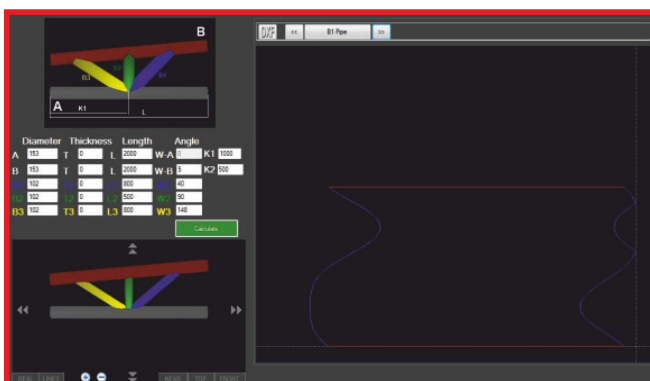
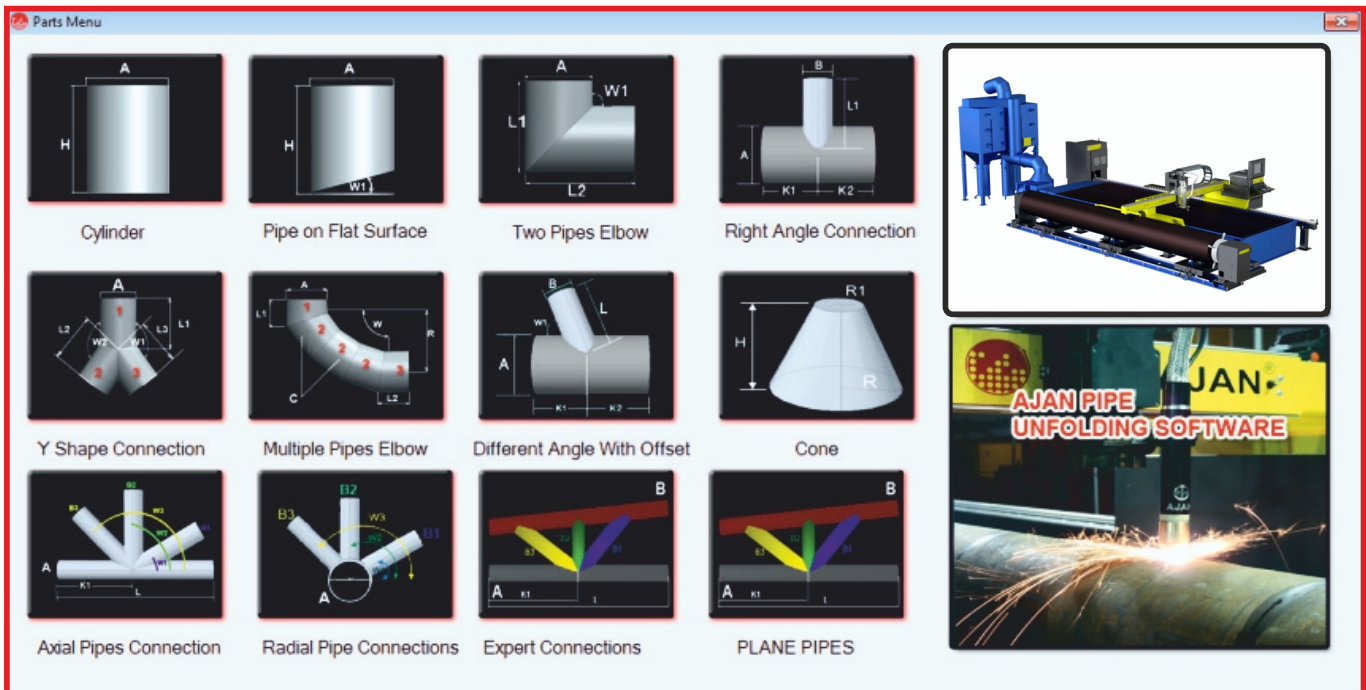
Common Cut Feature



Ajan CNC has developed the AJAN PIPE UNFOLDING SOFTWARE for CNC Pipe Cutting Plasma Machines. Our software developers presented AJANPIPE to efficiently use the CNC pipe.

TECHNICAL SPECIFICATION

- Ready pipe connection kits to unfold intersections.
- Ready to cut DXF file export without the need for other programs.
- Efficient, fast and easy to use.
- Can be installed on many computers.



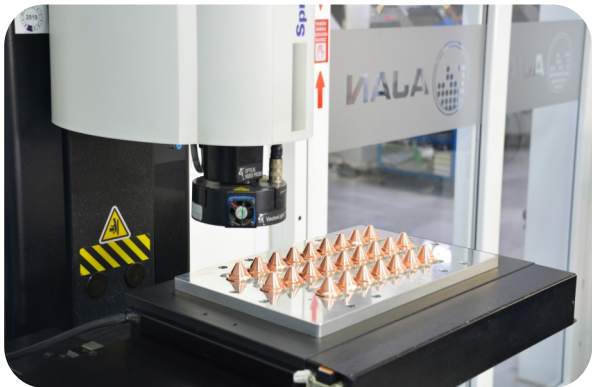
ONLINE STORE

<https://shop.ajanusa.com/>

One of the important advantage of the machines we produce is the supply of consumables. All consumables are produced with the latest technology in our facilities. As a result of an intensive R & D process, these parts, which are designed for the best cutting quality, are processed from the highest quality raw materials and quality controls are performed on extremely sensitive measuring devices and a special program is offered only in AJAN machines.

Thanks to our online store consumable orders can be placed easily with the fastest delivery time and affordable cost.

To place order you can visit our website at <https://shop.ajanusa.com/>



AJAN CNC offers its valuable customers an experienced teaching staff whom will give the trainees a basic and advanced course. Courses are given in modern equipment. AJAN machines are widely used in the production and design. Therefore we give extra importance to training.



TRAINING PERIOD AND CONTENT

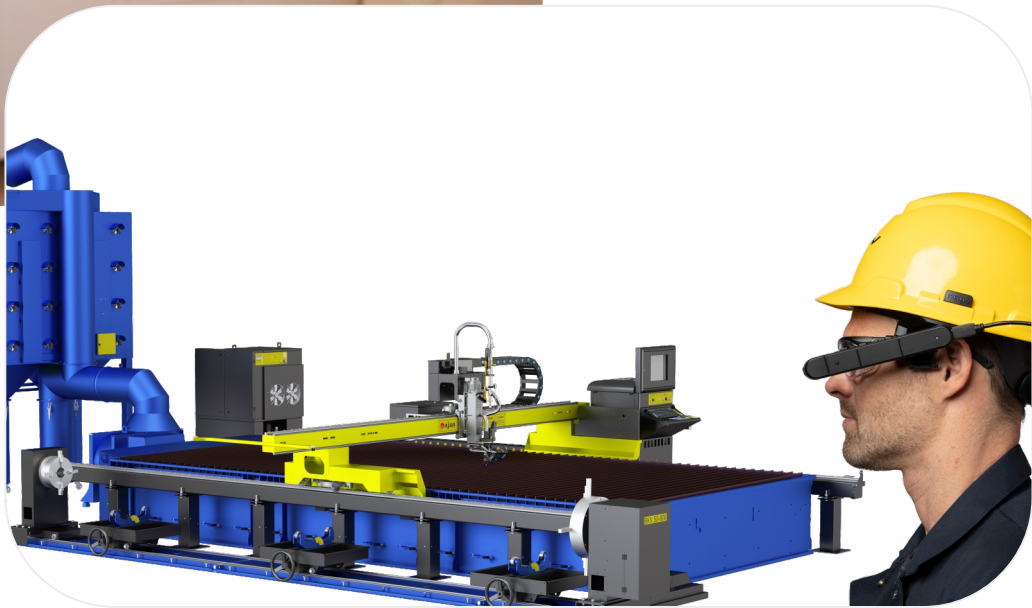
In our especially prepared classes the course period is 5 days the first 2 days are theoretical information and the other days are practicing on the machine. The courses are free of charge in our factory and the attendance time is unlimited

WHO CAN JOIN?

The persons who can join the courses should have computer skills especially with drawing software. Now adays to be able to use all the CNC machines such skills are required

- There is a 10 person maximum per class.
- Class hours are from 09:00 am to 05:30 pm
- A success certificate will be given to the traineer who passes the exam.

For detailed information about course content and program call 470-970-2526 or visit www.ajanusa.com



470 970 2526

Ajan Call Center was implemented to provide the highest quality of sales and service support. Prior to sale, our skilled technicians will check your requirements and generate a solution to meet your needs.

Our technicians are available to provide technical support. In the event your machine needs service, we are available to provide an initial phone consultation and then dispatch our service men if required.

We are available through many channels such as phone, email, web. By gathering all our technical support in one call center, we can offer expert advice on applications, product info, technical support, service, spare parts, quotations, etc.

For any of your questions and needs, please contact us at 470-970-2526



Ajan USA Head Office

2513 Shallowford Road Bldg 200, Suite 211, Marietta, Georgia 30066 United States
Phone : 470-970-2526 E-mail : support@ajanusa.com Visit : www.ajanusa.com