

Profi-Line Plasma

CNC Plasma Cutting

Portabel and accurate:

CNC-plasma cutter CNC CUT E

Portable device, especially for long workpieces. The torch moves on a gear rack. The cross beam with the torch is based on rails. Despite of the simple construction the device works very accurate. **With anti-collision system!**



Easy operation

The operation software and its display are hierarchical. You can operate programmed controls automatically or manually.

Control with USB interface

Model	CNC CUT E
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Cutting Speed	0 – 1.000 mm/min (oxy-acetylene) 0 – 8.000 mm/min (plasma)
Height control	THC
Effective cutting range (mm)	X-Axis: 1.500 mm Y-Axis: 3.000 mm (further sizes on request)
Cutting tolerance	± 0,4 mm (with standard plasma system)
Cutting tolerance	< 0,3 mm on request
Posit. accuracy	< 0,3 mm
Rep. pos. accuracy	< 0,4 mm
Weight	80 kg
Dimensions	1670 x 3500
Item no.	02.02.50.00115

Incl. Software:

- Libellula® Wizard 3 nesting software for PC

*All CNC plasma systems are delivered without oxyfuel equipment!

Profi-Line Plasma

CNC Plasma Cutting

Only
1.5 x 1.5 m
required
space

The cost-effective plasma cutting solution:
CNC CUT Smart

Low space requirement but all benefits of a plasma cutting table. Easy to install and to maintain. Start directly working with the supplied software.



Productvideo



Scope of delivery CNC CUT Smart Incl. software:
- Libellula® Wizard 3 nesting software for PC

Control with
USB interface

Create your template on your PC and just transfer it to an USB-stick....



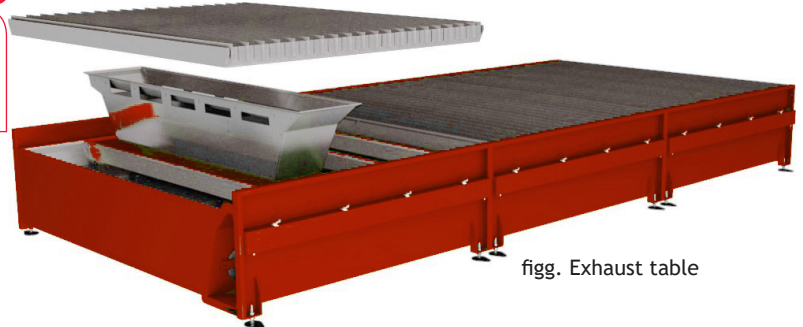
Model	CNC CUT Smart		
Supply voltage	230 V, AC/110V AC, 50/60 Hz		
Running speed	0 - 20.000 mm/min		
Effective cutting rang	1.300 mm x 1.300 mm	1.300 mm x 2.500 mm	1.500 mm x 3.000 mm
Cutting speed	0-6,000mm/min		
Cutting tolerance	± 0,3 mm (with standard plasma unit)		
Positioning accuracy	0,3 mm		
Repeat positioning accuracy	< 0,4 mm		
Height control	THC		
Dimensions (LxWxH) mm	1.818x1.950x1.361	3.018x1.950x1.361	3.518x2.150x1.361
Cutting thickness	0,3 mm - 15 mm	0,3 mm - 30 mm	0,3 mm - 30 mm
Weight	400 kg	650 kg	750 kg
Cross beam	Aluminium (60x145)		

*All CNC plasma systems are delivered without oxyfuel equipment!

Profi-Line Plasma

CNC Plasma Cutting

Water table	for cutting thickness
1.300 x 1.300 mm	0,5 mm - 30 mm
1.300 x 2.500 mm	0,5 mm - 30 mm
1.500 x 3.000 mm	0,5 mm - 30 mm



figg. Exhaust table



Productvideo

Exhaust table
1.500 x 3.000 mm
max. cutting thickness: 30 mm

CNC CUT combination especially for flat and tube

Precise cuts are very easy with the CNC CUT Kombi plasma cutting system.

Due to the dual system, you can cut workpieces with an autogenous or plasma torch.

Create your template on your PC and just transfer it to an USB-stick...



Productvideo



Control with USB interface

Incl. Software:
- Libellula® Wizard 3 and Tube 2-axis Software with nesting software for PC

*All CNC plasma systems are delivered without oxyfuel equipment!

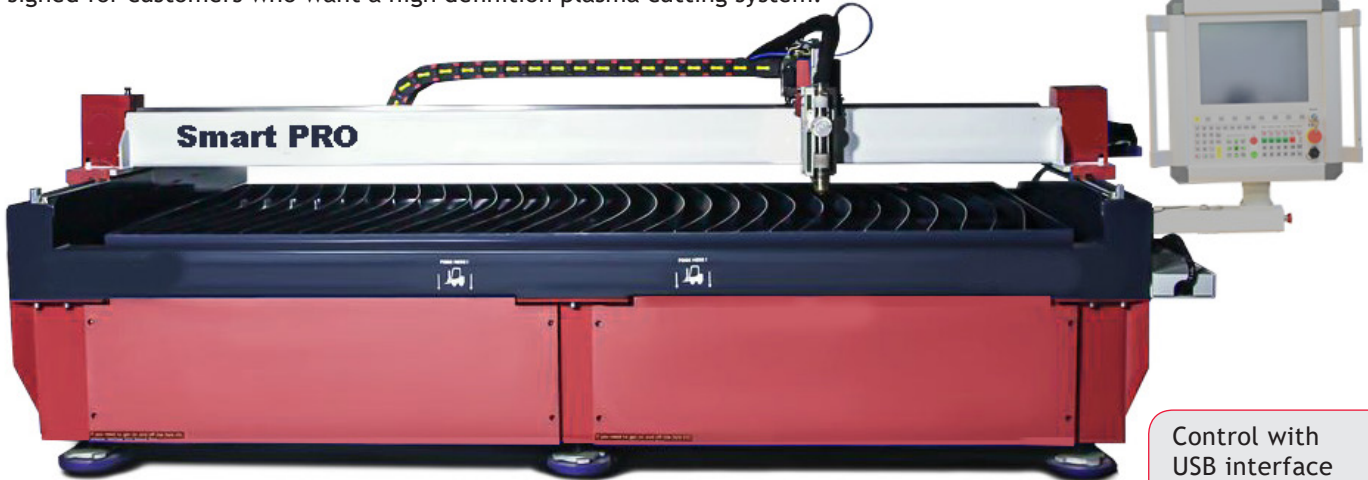
Model	CNC CUT Smart KOMBI 2-Achs
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Cutting range	1500x3000 to 1300x1300mm
Drive	Dual drive, smart servo motor
Running speed	0 - 15.000 mm/min
Cutting accuracy	< 0,5mm
Tube diameter	50-150 mm
Processing thickness	0,3 - 40mm Via the Plasma power supply
Cutting mode	Oxy-acetylene and plasma

Profi-Line Plasma

CNC Plasma Cutting

CNC CUT Smart Pro High Definition

The Smart Pro version is an updated version of the CNC CUT Smart, designed for customers who want a high definition plasma cutting system.



Control with
USB interface

The powerful plasma power source challenges the stability and accuracy of the system, because Smart PRO works perfectly.

All parts such as helical gears, drive, rack and pinion together guarantee excellent motion control, parallel accuracy and stability together! The design of the separate material table is still used to avoid the loss of load-bearing capacity of the body and at the same time shorten the height of the longitudinal beam to the cross beam to ensure the stability of longitudinal travel. A wider cross beam is specially designed for the workshop so that you can save more space on the wall and load easily!

Scope of delivery CNC CUT Smart PRO Incl. Software:

- Libellula® Wizard 3 nesting software for PC
- incl. Water table



Create your template on your
PC and just transfer it to an
USB-stick...



Control CNC CUT Smart PRO High Definition

Model	CNC CUT Smart PRO High Definition
Cutting mode	High definition Power Plasma
Input voltage	110V / 230V
Frequency	50/60Hz
Cutting surface	3000 x 1500 mm
Input power	3600 W
Drive	Panasonic Servomotor
CNC control	IPC
Plasma Power Source	HDPP (High Definition Power Plasma)
Cutting speed	0 - 20.000 mm/min
Cutting tolerance	≤ 0,3 mm
Height control	THC
Item no.	02.02.52.11530

Optional

iCNC control from Thermal Dynamics® with High Definition technology can be ordered as an option for perfect holes. perfect holes can be ordered. See page 51

*All CNC plasma systems are delivered without oxyfuel equipment!

Profi-Line Plasma

High Definition CNC Plasmaschneidtisch

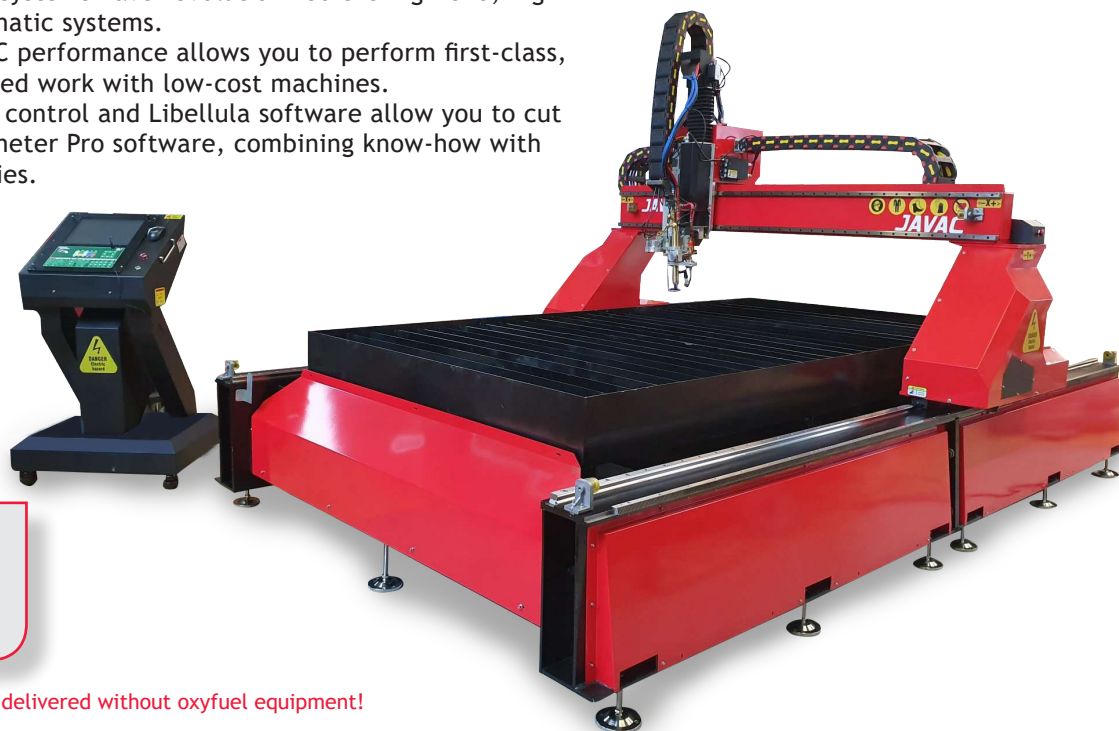
CNC CUT Master-X

The CNC Cut Master-X has two torch holders, one for oxy-fuel cutting and one for plasma cutting.

The integrated plasma systems have revolutionized the high-end, high performance and automatic systems.

Thermal Dynamics' iCNC performance allows you to perform first-class, professional and qualified work with low-cost machines.

Thermal Dynamics CNC control and Libellula software allow you to cut perfect holes with Diameter Pro software, combining know-how with technological capabilities.



Incl. Software:

- Diameter Pro
- Thermal Dynamics

*All CNC plasma systems are delivered without oxyfuel equipment!

Modell	CNC CUT Master-X
Supply voltage	AC220-240V, 50/60 Hz
Drive	1000Wx2,750Wx1 AC Panasonic Servo System, Dual drive
Reducer	1:25 APEX
Running speed	0 - 28.000 mm/min
Cutting speed	0 - 12.000 mm/min(base on material thickness and plasma power source)
Positioning speed	10000 mm/min
Accuracy	± 0,08 mm
Cutting tolerance	± 0,2 mm (with High-Definition)
Positioning accuracy	0,2 mm
Repeat positioning accuracy	< 0,2 mm
Effective cutting range (mm)	1.500 mm x 3.000 mm
Cross drive unit	Two torch systems (Oxyfuel and Plasma)
Height control	Auto Thermo Dynamics THC for Plasma; Capacity for oxyfuel (OHC)
Cutting thickness	0- 45 mm perforation cutting (plasma); flame cutting thickness 0-150mm
CNC control mode	iCNC
CNC System	Thermal Dynamics iCNC Performance with internal height control for 1 Plasma Torch incl. VDB (15-7001)
True Hole Nesting Software	Thermal Dynamics Produktivitätstool (15-1060) Automatik Nesting (15-1061)
Weight	2600 kg
Maschine size	2900 x 4100 x 2200 mm

Profi-Line Plasma

High Definition CNC Plasmaschneidertisch

Features

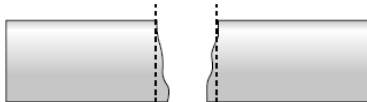
- 15 Inch Touchscreen
- Control panel for plasma, oxyfuel and additional functions
- Integrated WiFi
- 3-axis drive outputs
- Single CPU, 4-wire, 1.91 GHz
- 4Gb DDR3 main memory
- 5 x USB, I/O 16+40, 3 Input encoders
- Power consumption 24 VDC
- Optional integrated plasma height control
- Optional servo motors with built-in amplifiers Individually adaptable
- Control panel only, ideal for OEM applications
- Amplifier housing: easy for retrofit and OEM applications where no existing housing is available.
- Amplifier options: 400W and 750W for cutting machines with one or two drives
- Servomotors with built-in amplifiers



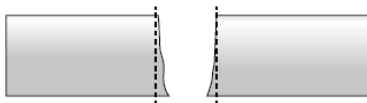
iCNC Control mode

Cut Quality with Diameter Pro Software

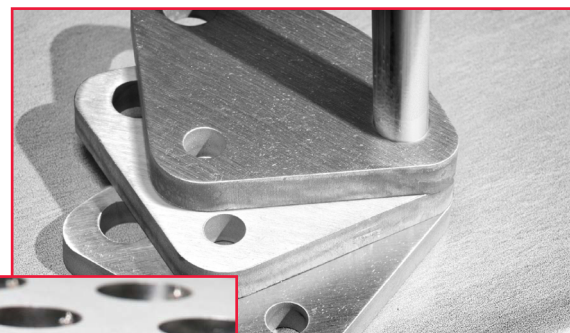
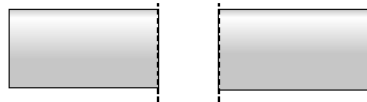
Traditional Plasma



HD without Diameter Pro



HD with Diameter Pro



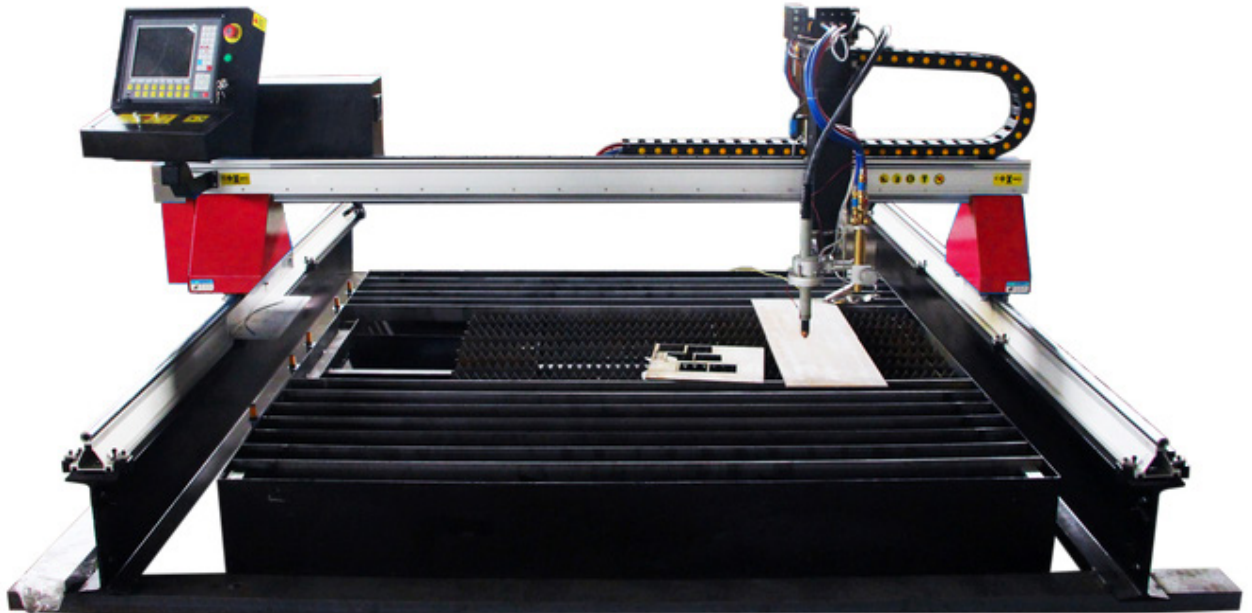
Diameter Pro automatically adjusts the following parameters depending on material type, thickness and hole size.

Profi-Line Plasma

CNC Plasma Cutting

CNC plasma cutting machine CUT Gentry X1

The system has two torch holders, one for plasma cutting, one for oxyfuel cutting. It is quickly assembled and can also be extended at the customer's request.



Control with
USB interface

Incl. Software:
- Libellula® Wizard 3 nesting
software for PC



Model	CNC CUT Gentry X1
Supply voltage	230 V, AC/110V AC, 50/60 Hz
Drive	750W x 2, 400W x 1, AC Panasonic Servosystem, Dual drive
Cutting mode	Oxyfuel and plasma
Cutting speed	Oxyfuel: 0- 1.000mm/min, Plasma: 0 - 10.000mm/min
Running speed	0 - 10.000 mm /min.
Effective cutting range	3.000 x 3.000 mm
Height control	THC
Cutting tolerance	≤ 0,5 mm
Positioning accuracy	± 0.3mm
Repeat positioning accuracy	± 0.3mm
Cutting thickness	Plasma: Due to the power source
Weight	650 kg
Maschine size (LxWxH) mm	3800x1220x1250

*All CNC plasma systems are delivered without oxyfuel equipment!

Profi-Line Plasma

CNC Plasma Cutting

CNC Tube S2

The CNC Tube S2 is a cost-effective tube cutting solution designed on a compact platform. The Tube S2 is ideal for roll cage, railing and fencing manufacturers, as well as many other small to medium sized manufacturing operations looking to increase efficiency in profiling and cutting their workpieces. This 2-axis CNC tube cutting machine can cut aluminium, stainless steel and mild steel tubes quickly and easily



Control with
USB interface

Incl. Software:

- Libellula® TUBE 2-axis software
with nesting function

Model	CNC Tube S, 2-Axis
Power	110V / 220V, 1-phasing / 60Hz
Running speed	0-8,000mm/min
Pipe Capacity	30 - 120 mm
Height control	HYD Arc voltage THC
Travel in longitudinal direction	3m / 6m / 9m / 12m / 15m (Extension by 3 metres)
Max. Cutting speed	0 - 8000mm/min.
Rotation drive	Precision planetary gear and belt drive
Linear movement	Precision rod and gear
Cutting process	Plasma

*All CNC plasma systems are delivered without oxyfuel equipment!

CNC CUT Tube Mini

The Tube Mini is a compact 2-axis tube cutting machine, for roll cage, railing and fencing manufacturers, as well as many other small to medium sized manufacturing operations looking to increase efficiency in profiling and cutting their workpieces. This 2-axis CNC tube cutting machine can cut aluminium, stainless steel and mild steel tubes quickly and easily.

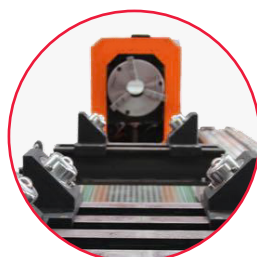


Control with
USB interface

Incl. Software:

- Libellula® TUBE 2-axis nesting
software for PC

Model	CNC CUT Tube Mini
Supply voltage	1-phase 110/220V, 50/60 Hz
Input power	800 W
Effective diameter	50mm - 300mm
Cutting mode	Plasma / Oxyfuel (optional)
Drive motor	Servo drive
Cutting speed	0 - 6.000 mm/min
Running speed	0-8.000 mm/min
Cutting tolerance	≤0,4 mm
Length	bis zu 15 m



Profi-Line Plasma

CNC Plasma Tube Machine

The cost-effective solution for plasma cuts on tubes: CNC CUT P1 2-axis system and 4-axis system

The system is simple and robust and can be operated easily and intuitively. A number of standard shapes are already created in the control system and can be easily transferred to the pipes.

Control with
USB interface

Inkl. Software:

- Libellula® TUBE 2-Axis /
- FastPipe 4-Axis nesting software for PC



Model	CNC Tube P, 2-Axis		CNC Tube P, 4-Axis	
Supply voltage	230V, AC/110V AC, 50/60 Hz			
Power	1200W, AC Panasonic Servo system			
Effective diameter	Ø 25mm - Ø 400mm			
Running speed	1- 8.000 mm/min			
Rotation speed	0 - 5000mm/min			
Cutting speed	1-6.000 mm/min			
Travel in longitudinal direction	< = 3.000 mm			
Cutting tolerance	± 0,5 mm (mit Standard Plasmaanlage)			
Positioning accuracy	0,3 mm			
Repeat positioning accuracy	< 0,5 mm			
Cutting mode	Plasma			
Workpiece diameter	50 x 400 mm	50 x 600 mm	50 x 400 mm	50 x 600 mm
Pipe length	≤ 6.000 mm			
Height control	THC			
Maschine size (LxWxH) mm	1003x7057x70			

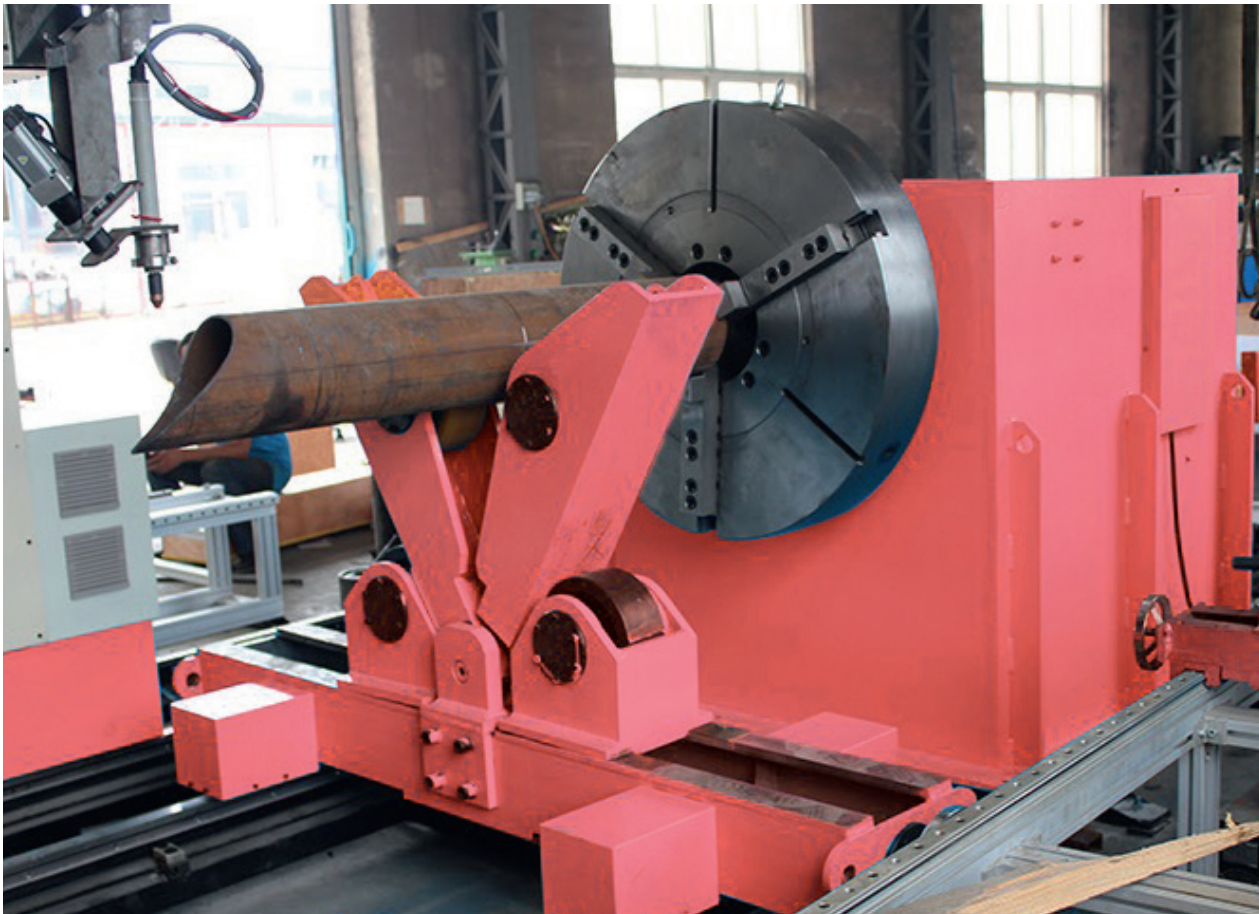
*All CNC plasma systems are delivered without oxyfuel equipment!

Profi-Line Plasma

CNC Plasma Tube Machine

The "Master of Plasma cutting" on pipe: CNC Tube M 4-Axis

The Model Tube M of the CNC Tube series can handle tubes up to 125 cm. Many standard forms are already created in the control system and can easily be transferred to the pipes.



Model	CNC Tube M, 4-Axis
Supply voltage	230V, AC/110V AC, 50/60 Hz
Power	3000W, AC Panasonic Servo system
Running speed	0 - 6.000 mm/min
Rotational speed	0 - 5000mm/min
Cutting speed	0-3000 mmz/min
Tolerance	< 0,5 mm
Cutting mode	Plasma
Workpiece diameter	100 - 1250 mm
Height control	THC

Control with
USB interface

Incl. Software:
- FastPipe 4-Axis Soft-
ware with nesting
software for PC

*All CNC plasma systems are delivered without oxyfuel equipment!

Profi-Line Plasma

CNC Plasma Tube Machine

Pipe- and Square-CNC-Pipe Cutting Machine

Our pipe- and square-CNC-pipe cutting machine processes square (from 25 mm to 180 mm) as well as round pipes (from Ø25 mm to Ø250 mm) and is equipped with the latest German chuck pipe cutting technology, enabling easy assembly of steel pipes.



Modell	CNC-VKR-1	CNC-VKR-2
Supply voltage	AC220V / 50/60HZ / single-phase	
Input Power	5KW	8-20 KW
Cutting Speed	0-6000mm/min.	0-8000mm/min.
Moving Speed	0-8000mm/min.	0-12000mm/min.
Rotational Speed	0-6000mm/min.	0-1000mm/min.
Axis	5 axis 4 Linkage	
Auto THC	Arc voltage height controller with anti-collision	
Pipe size (round pipe)	Ø 25 mm to Ø 150mm	Ø 80 mm to Ø 500
Pipe size (square pipe)	25 mm to 100 mm	60 mm to 400 mm
Pipe lenght	3000 mm	6000 mm can be customized
Cutting precision	≤±0,05 mm/m	
Tolerance	≤±0,03 mm	
min. stitch width	≤0.15 mm	
movement path	X:1500mm; Y:3000mm; Z:120mm	

Control with
USB interface

Incl. Software:
- FL-TubeMaster

Profi-Line Laser

Fiber Laser Cutting Machine

Fiber Laser Cutting Machine

With the CNC tube fiber laser cutting machine you can now also process square tubes with an edge length of 20x20 mm to 105x105 mm and a maximum length of 6000 mm.



Model	CNC-Fiber laser cutting machine
Laser power	1000W, 2000W, 5000W up to 10KW
Pulse Frequency	1-20000HZ
Cutting Speed	6000mm×1500mm
Supply voltage	380V/50HZ/3 phases
Laser wavelength:	1070-1080nm
Edge length for square pipes	20x20mm to 105x105mm(max. length :6000mm,the rest has 200mm)



Productvideo

Create your template on your PC and just transfer it to an USB-stick...



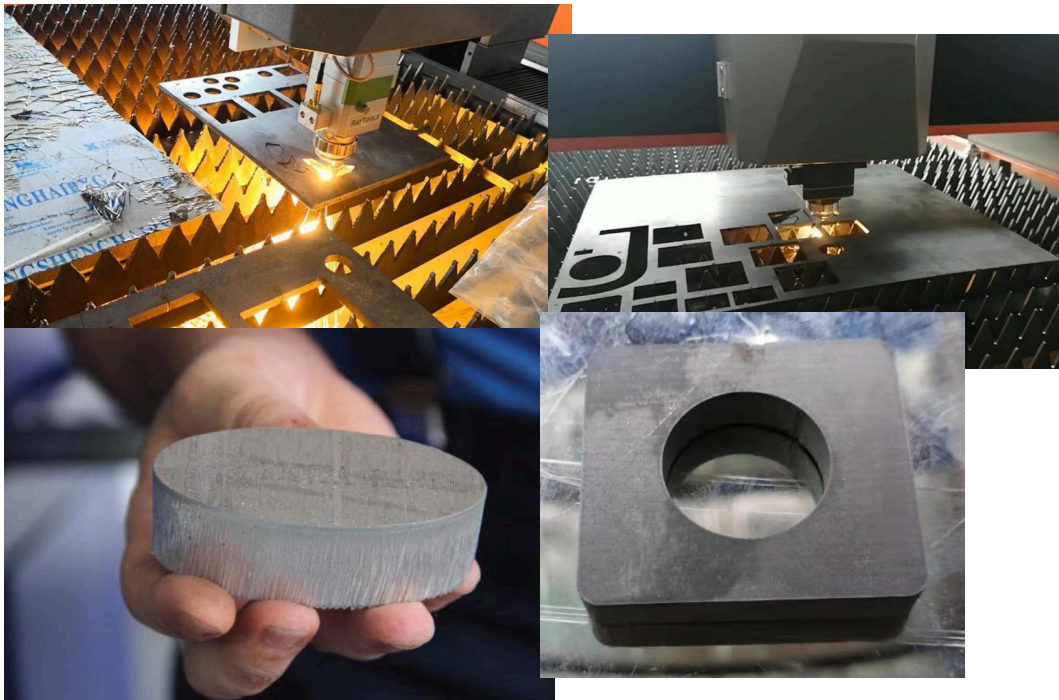
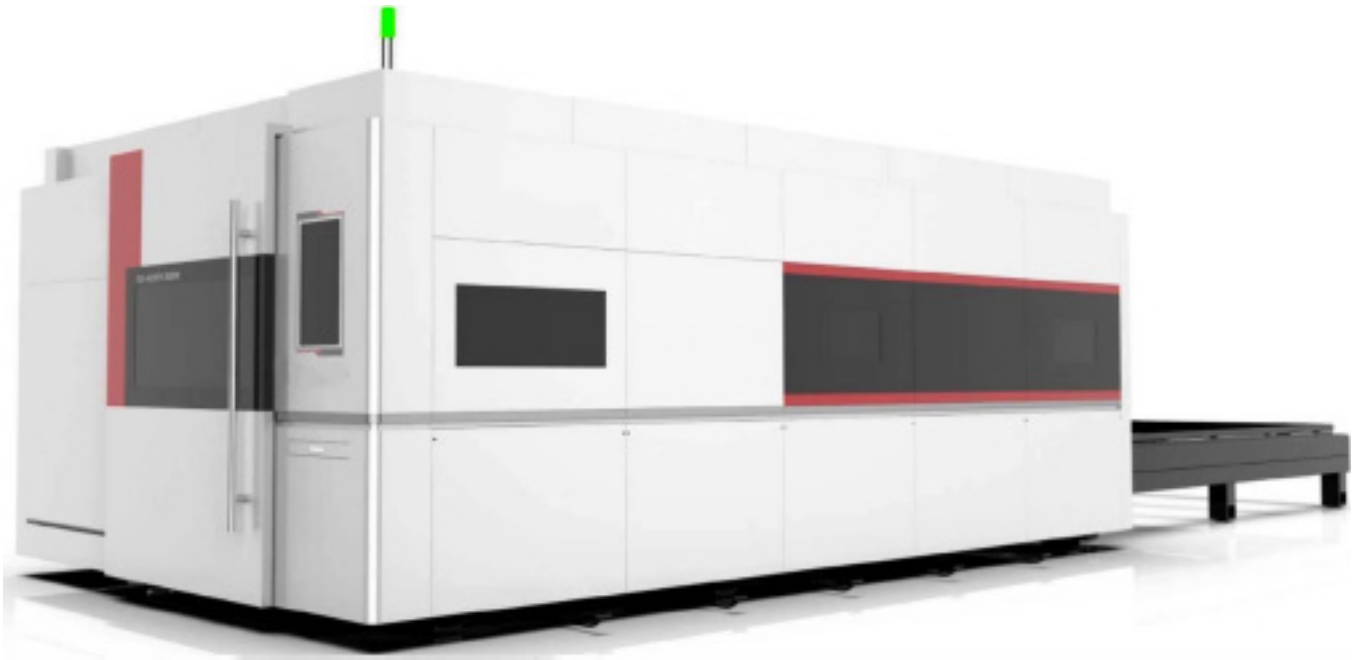
Incl. Software:
- Friendess-Tube Pro

Profi-Line Plasma

CNC Laser Cutting Machines

CNC fibre laser cutting machine

With the CNC fibre laser cutting machine, you can easily cut mild steel, silicon steel, stainless steel, aluminium alloy, titanium alloy, galvanised sheet and other sheet materials with excellent laser radiation and high cutting speed.



Profi-Line Laser

CNC Laser Cutting Machines

CNC fibre laser cutting machine	1 KW 1313	1KW 1530	1,5 KW 1313	1,5 KW 1530
Supply voltage	AC380V 3-Phases/Hz/50Hz			
Laser wavelength	1060-1080 nm			
Output power	1000 W		1500 W	
Light beam quality	< 0.373 mrad			
X-Axis	1300 mm	1500 mm	1300 mm	1500 mm
Y-Axis	1300 mm	3000 mm	1300 mm	3000 mm
Z-Axis	120 mm			
Effective cutting range	1300x1300 mm	1500x3000mm	1300x1300 mm	1500x3000 mm
Outer machine size mm	2600x2280x2000	9000x2500x2000	2600x2280x2000	9000x2500x2000
Positioning accuracy	± 0.02 mm/m			
Repeat positioning accuracy	± 0.02 mm/m			
min. Line width				
max. Running speed	120m/min.			
Graphic format supported	DXF Format (CAD, Coreldraw, Ai)			

CNC fibre laser cutting machine	3 KW 1313	3KW 1325	3 KW 1530	4 KW 1530	6 KW 1530
Supply voltage	AC380V 3-Phases/Hz/50Hz				
Laser wavelength	1060-1080 nm				
Output power	3000 W			4000 W	6000 W
Light beam quality	< 0.373 mrad				
X-Axis	1300 mm	1300 mm	1500 mm	1500 mm	1500 mm
Y-Axis	1300 mm	2500 mm	3000 mm	3000 mm	3000 mm
Z-Axis	120 mm				
Effective cutting range	1300x1300 mm	1300x2500 mm	1500x3000 mm	1500x3000 mm	1500x3000 mm
Outer machine size mm	2400x2200x1800	8500x2200x2000	9000x2500x2000	9000x2500x2000	9000x2500x2000
Positioning accuracy	$\leq \pm 0.02$ mm/m				
Repeat positioning accuracy	$\leq \pm 0.02$ mm/m				
min. Line width					
max. Running speed	120m/min.				
Graphic format supported	DXF Format (CAD, Coreldraw, Ai)				

Create your template on your PC and just transfer it to an USB-stick...

Incl. Software:
- Friendess-CypCut



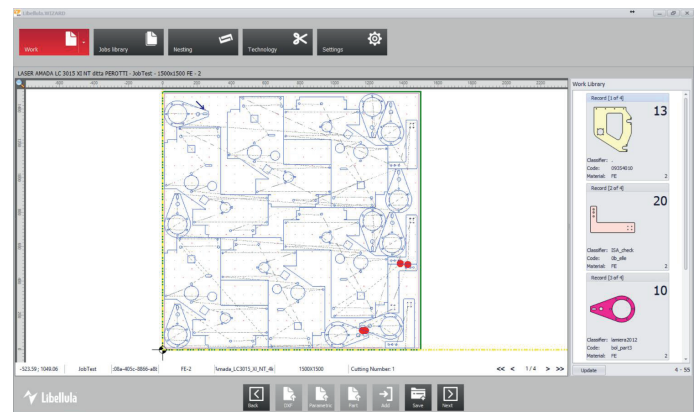
Profi-Line Plasma

CNC Profi-Softwarepackage Libellula® Wizard

Libellula!

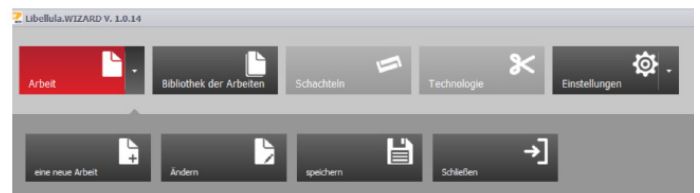
This plate-processing software can be ordered separately. Develop your project on your local PC and transmit it via the USB-interface to the plasma cutting device at the workplace. Existing files in many common formats can be processed (dwg, dxf, etc.).

Libellula is a software application which can be learned very quickly, so no additional training of the user is necessary.



Features

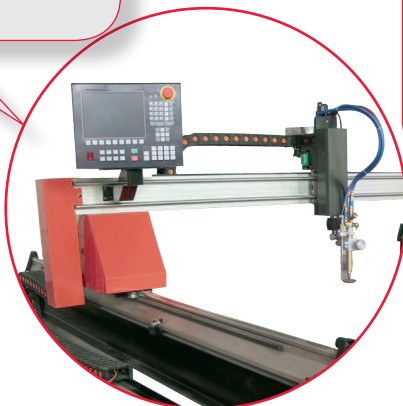
- Create any 2D object
- Trouble free data exchange
- 3D simulation
- DXF/DWG import/export for your existing projects



Create your template on your PC and just transfer it to an USB-stick ...



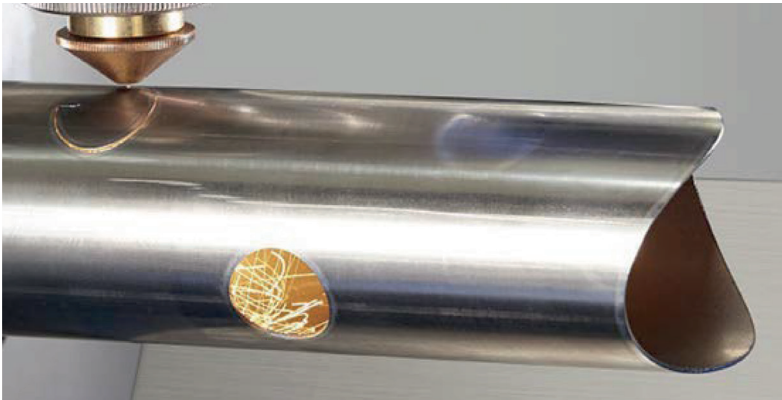
... and to the cutting device. That's it.



Functions	Libellula Wizard 3
DXF/DWG-Import	yes
2D-Icon-library	yes
Sheet metal library	yes
Icon-control	yes
Nesting type	automatic
Cutting technology library	manually/automatic
Cutting technology chart	yes
Cutting path visualization	yes
Cutting path control	yes
cutting path correction	automatic
Post-Processor	yes
Realistic 3D-simulation	yes
Cutting time calculation	yes
Individual interface	yes
HVAC-Modul on demand	yes
BEVEL-Modul on demand	yes
STORAGE-Modul on demand	yes
VISIO-Modul on demand	yes

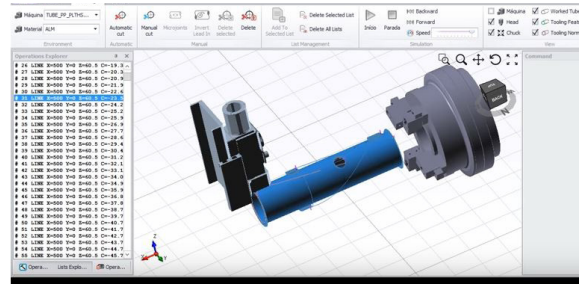
Profi-Line Plasma

CNC Profi-Softwarepackage Libellula TUBE®



CNC-Precision!

Libellula TUBE makes programming incredibly easy and fast of each cutting machine for tubes and profiles

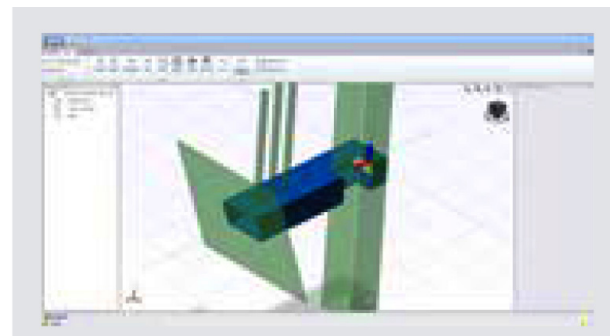


Libellula TUBE Software package

Libellula TUBE!

This pipe-processing software can be ordered separately. Develop your project on your local PC and transmit it via the USB-interface to the plasma cutting device at the workplace. Existing files in many common formats can be processed (dwg, dxf, etc.).

Libellula is a software application which can be learned very quickly, so no additional training of the user is necessary.



Parametric design environment

Features

- Parametric tube design: everything in just a few steps, with maximum flexibility
- Possibility of creating templates on the basis of sections loaded from DXF file
- Real-time design of the model with immediate display of the geometric changes of the whole piece or a particular attribute
- With each change, the shaft of the design will populate the levels of all tools used; the history thus created will also change the tools and parameters in a fast and functional way. The tools used for the creation of the model will be parametric and of any possible shape, enabling you to create totally customizable tubes



Technology and simulation



3D Postprocessor generation

3D simulation and automatically PPR creation

Libellula.TUBE enables the creation of 3D cutting pattern starting from the particular desired, in addition to its simulation in the machine and to the generation of the post-processor in a fully automatic manner.