ARCBRO CNC Cutting Machine

Stinger series
Bench Plate Cutter
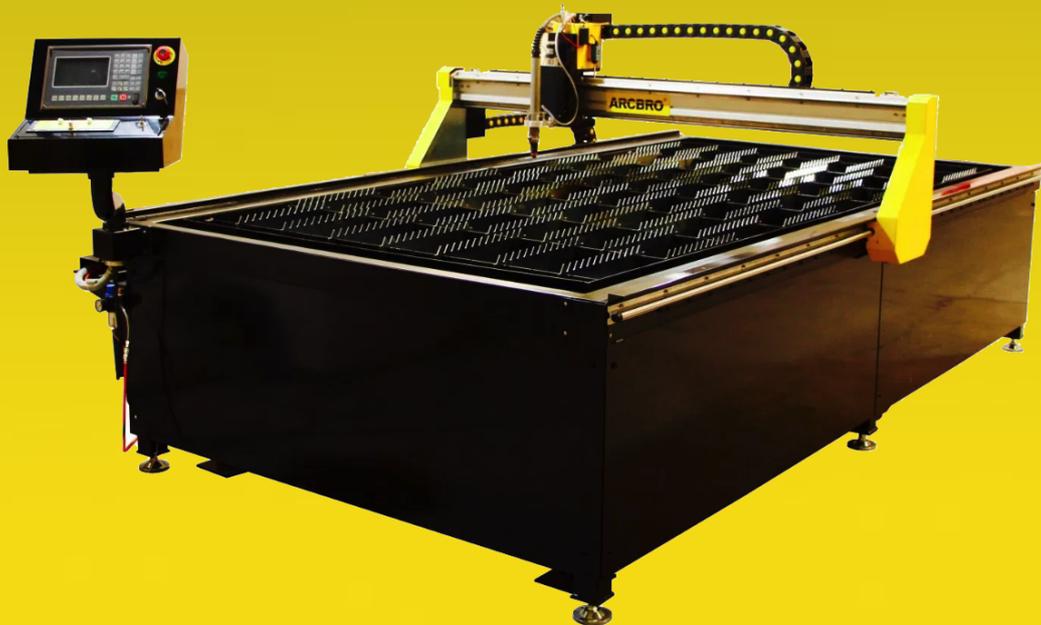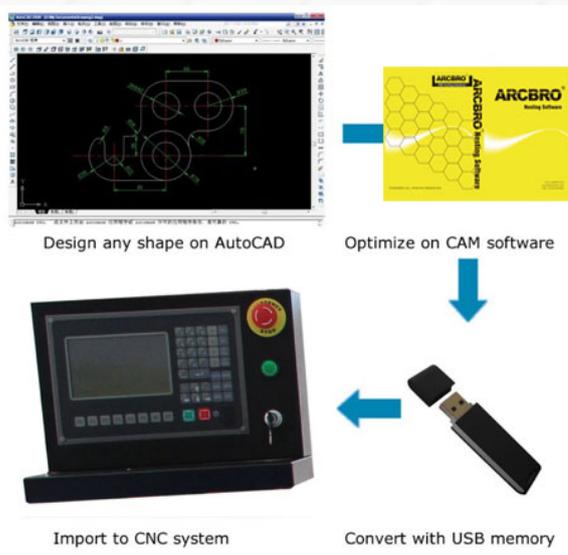

Technical Parameters

Input voltage	Signal phase 220V/110V	THC	Air Pressure height control Arc voltage height control
Power frequently	50/60HZ		
Display	7 inches	Drive mode	Dual drive, Smart servo motor
Effective cutting range	1300x2500mm	Software	Italy Libellula Wizard 3
Running Speed	0~15,000mm/min	Table（option）	Water table (15mm thickness Water table（30 mm thickness) Air （suction） table 30mm
Cutting Speed	0~6,000mm/min		
Cutting thickness	0.3mm ~ 20mm		
Cutting mode	Plasma cutting system		

ARCBRO Controller

- Equipped with ARM9 industrial chip with high memory for users' programs
- Display; 7'' true color LED screen with mirror imaging
- 24 pre-set patterns to help user set up machine and commence running efficiently.
- Built-in library figures are able to nest with CNC system
- The functionality is simple and easy to learn with manuals that include photos and teaching videos
- Useful features include break-point & power-cut restoration, kerf compensation, returning to reference point and so on
- Support in more than 8 languages, including Chinese, English, Russian, Spanish, French, Czech, Slovenia and Japanese

Design any shape on AutoCAD   Optimize on CAM software

Import to CNC system   Convert with USB memory

Read NC Code

- Can read any .TXT format NC code
- Save import NC data in memory and view cutting shape on screen
- Nesting software is included with the machine package, can edit the AutoCAD design file
- USB memory stick is included with the machine, is able to convert the NC code to the CNC system
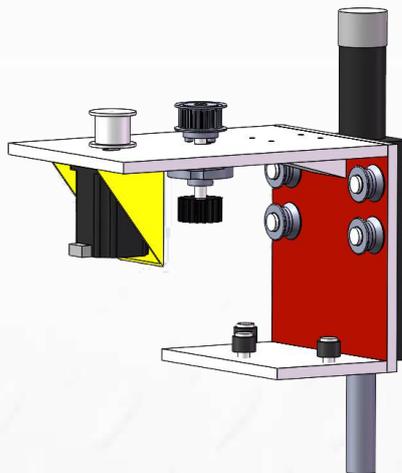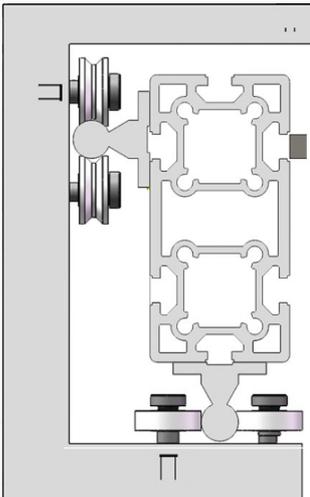
Two THC modes

- Stinger takes use of pneumatic torch height control to cut thin sheet metal
- Thin sheet metal may be tilted when cut but this doesn't allow the normal arc sensor to react as quickly. The Water Cap Top press is needed to keep it flat. The THC moving speed is 12000mm/min meaning its fast and can react quick.
- The Stinger also takes use of an arc voltage auto sensor for torch height control, is able to cut over 2mm thickness
- The Arc voltage THC can keep the plasma torch a specific distance from the board surface, giving the nozzle a longer lifetime and better cutting performance
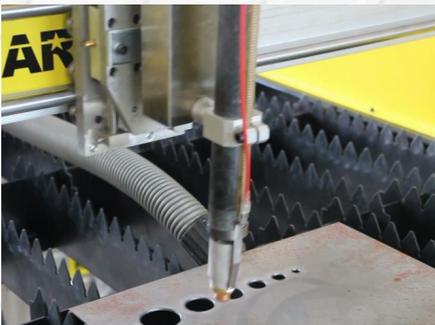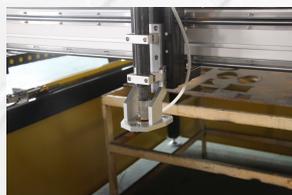
Mechanical structure

- Using quality square guide rails on XY axis, running speed can be up to 12000mm/min and the cutting speed up to 6000mm/min
- High precision helical gear racks and pinions improve the machines running accuracy
- Thick steel slats support the metal plate which are replaceable
- 8 large smooth running steel wheels fix the torch on the beam firmly.
- Universal wheel + quick clamp device can help you fix the sheet metal efficiently.
- Cutting table can be designed to customer's requirements, can support >=30mm thick plate

Motor drive system

- The updated Smart Servo motor system gives feedback with every movement to ensure precision
- On the rail side, the stinger uses a motor plus a reducer to increase driving force meaning that the machine body can run efficiently.
- Using a close-loop circuit is more accurate than open-loop at high speed, Using a smart servo motor system that is close-loop circuit, the stinger can run efficiently and save cost.

Water cooling device

- Water cooling device contains water pump, water hose and water cap. It provides water to the water-cap near plasma torch
- When the sheet metal is cut by the plasma source, water keeps the sheet metal cool, so that the cutting edge is smooth and surface is clean
- Easy assemble, simply connect the plasma torch with water cap and plug the water pipe

Software

- Standard Italain Libellula WIZARD 3 software.

- The user is able to convert the AutoCAD file to NC code effecently.

- Is able to do auto-nesting, compatible with 64 sites Windows

- Software and dongle are included in the machine standard package

- Humanized operating steps are straightfoward to learn and use
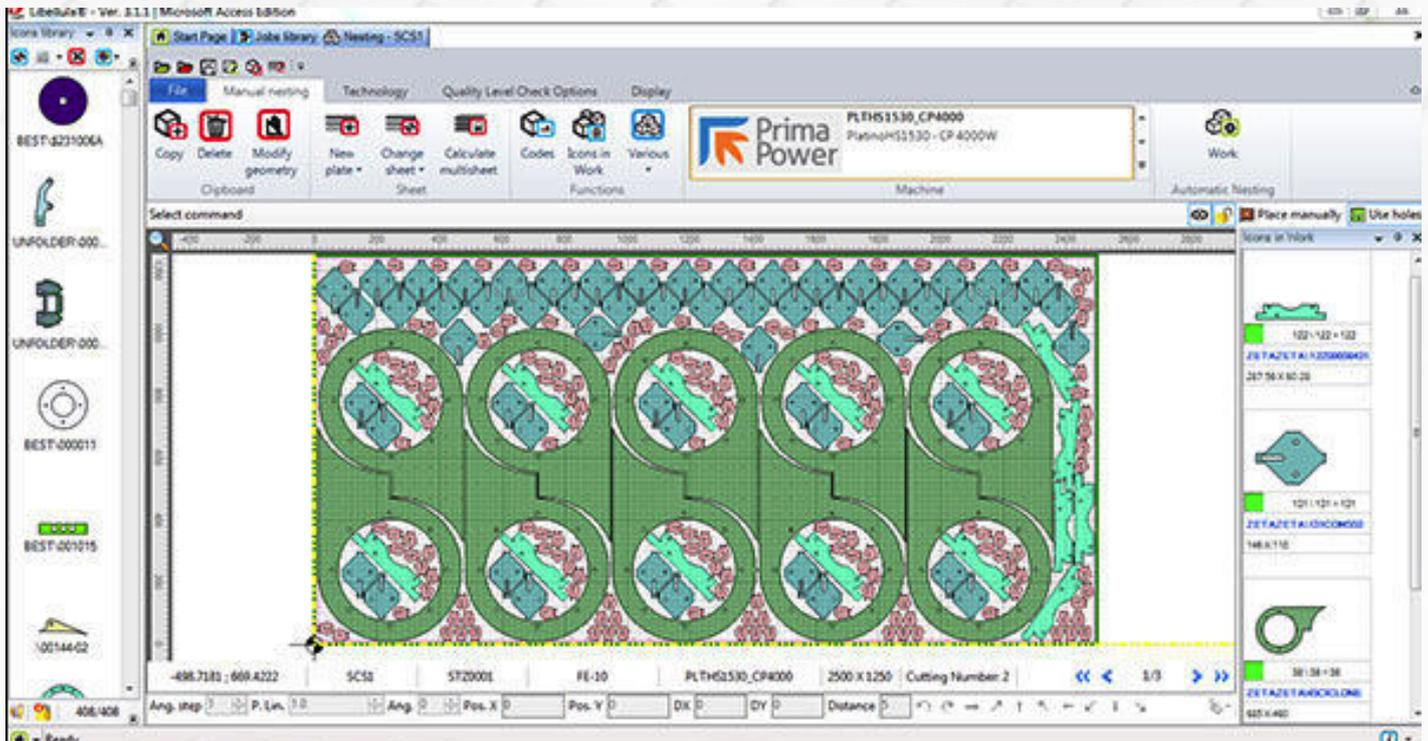
Standard package
- Longitudinal rails frame
- Transversal Beam
- Cross beam
- Central Unit
- Universal torch holder
- Plasma cable holder
- All necessary electrical cables
- Memory key
- Libellula Cutting software with auto nesting function
- User's manual in English
- AVC THC for plasma cutting thick plate on Z
- Air Pressure THC for plasma cutting thin plate on Z