

# **PRO-CUT 1000**

*SERIES*

## **Your Questions Answered**



 **WILKINSON STAR**  
wilkinsonstar.com

*The cost effective space saving solution for CNC precision quality cutting demands*

## **What is Plasma Cutting?**

Plasma is considered the fourth state of matter. A Plasma arc is an ionized gas that conducts electricity and once harnessed within a Plasma cutting torch via a suitable power source is a process that will cut through ferrous & non-ferrous metals.

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## **What materials can I cut with the Pro-Cut 1000 Series Tables?**

Typical materials cut with a Plasma system include mild steel, stainless steel and aluminium although other conductive metals can be cut.

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## **Does the Pro-cut 1000 Series CNC Table come with the Plasma Cutting Machine?**

Yes, we offer a choice of 3 non HF Jasic Plasma cutting systems to choose from, so depending on your cutting requirements we can ensure you get the right Plasma machine to suit your needs.

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## **What's the difference between a 2 axis & 3 axis Cutting Table?**

With 2-axis cutting tables you can move in the X and Y-axis at the same time while cutting the length and width of the plate being cut although if you add the third axis, your system will also automatically adjust the height of the Plasma cutting torch ensuring good quality cutting across the material being cut (ideal for thin plate).

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## **What size options do the Pro-Cut 1000 Series Tables come in and what's the actual cutting area?**

We offer the Pro-Cut Series Table in 2 sizes:-  
1m x 1m (with a cutting area of 1m x 93cm)  
1.25m x 1.25m (with a cutting area of 1.25m x 1.25m).

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## **What do I need in place to use a Pro-Cut?**

A small level area of about 5m square which is serviced by a suitable electrical supply and dry compressed air for your chosen Plasma system. The cutting table is powered by 2 x 13amp supply.

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## **Do I have to supply my own PC/Laptop?**

No, the Pro-Cut 1000 Series Cutting Table comes complete with a 15.6" Laptop (8GB of RAM) which also has the CAD software pre-installed to get you up and cutting as soon as the CNC Plasma Table is installed, we even supply a Laptop Stand as part of the package.

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## **Do I receive the software to make the cuts?**

Yes, the supplied Laptop comes complete with CAD software which allows you to draw up or import detailed drawings quickly and then proceed to cut out your templates.

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## **What is CAD/CAM?**

CAD (Computer Aided Design) software applications are used in many industries to both create precision drawings & programme the manufacturing processes of the CNC Plasma Cutting Table. The CAM (Computer Aided Manufacturing) software uses the images created in CAD to generate code paths that drive the cutting machine that transforms your designs into physical parts.

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## **Does the Cutting Table come with any pre-loaded templates/drawing to start cutting with?**

Yes, the new version of our CAD/CAM software comes with pre-installed templates to work with, so you're up and cutting as soon as the table is installed.

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## **Is training included with the purchase of the Pro-Cut Table?**

Yes on completion of the installation & commissioning process, training will be given to the chosen operator.

**What is AVC or AV-THC?**

AVC (Arc Voltage Control) or AV-THC (Arc Voltage - Torch Height Control) is an automatic motor driven function that works in conjunction with the Plasma power source and the CNC controller. The THC monitors the cutting arc voltage to ensure that the cutting torch tip remains at an optimum height from the plate throughout the cutting process. This ensures the best cut quality is maintained as well as longer consumable life. THC is particularly useful when cutting uneven thin sheet metal which has warped along its length to which the THC will give you the best cut possible, each and every time.

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**What happens if the Plasma Torch hits an obstacle?**

The torch holder has been designed to incorporate a collision system which in the unlikely event that the torch hits an obstacle the magnetic clamps will release causing no damage, simply refit the torch holder back in place.

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**Can I install the Pro-Cut 1000 Series Table myself?**

In short... NO, as part of the purchase price we come to your site and fully install and commission the cutting table, we even provide the operator training once installed.

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**What's the minimum sized space recommended to fit in a Pro-Cut 1000 Series Cutting Table in?**

We recommend a minimum of 4m by 4m square area, this will ensure there is adequate space to assemble and maintain the table, consideration should also be given to access for loading/unloading the plate from the table.

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**What is the warranty period for the Table & Plasma Machine?**

The Pro-Cut 1000 Series Cutting Table comes with a full 1 year warranty although the Plasma Cutter comes with a peace of mind 5 year warranty (when registered online).

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**Can I use my own Plasma System and Plasma Torch?**

We have partnered the Pro-Cut Pro Series Cutting Tables with the Jasic non HF Plasma & machine torch range to ensure you get the best 'trouble free' cutting performance from the table & software, our offerings are as below:

- **Jasic Plasma Cut 45PFC** is a 1ph 230V system that will provide a clean cut of 15mm (*with a CNC pierce of 6mm*).
  - **Jasic Plasma Cut 60** is a 3ph 415V system that will provide a cut up to 20mm (*with a CNC pierce of 16mm*).
  - **Jasic Plasma Cut 80** is a 3ph 415V system that will provide a cut up to 25mm (*with a CNC pierce of 20mm*).
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**What gases do I require to operate the Plasma Machine?**

The supplied Jasic Plasma systems only require dry compressed air.  
(Please ensure that your compressor supplies air that is water & oil free)

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**What power supplies do I require to have in place for the Pro-Cut Table?**

The Pro-Cut Cutting Table requires 2 x 13amp outlets (1 for the Cutting Table & 1 for the Laptop). Depending on the chosen Plasma machine you will require either a 1ph 230V 32amp socket or a 3ph 415V 16amp socket.

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**What size compressor do I require to have in place for the Pro-Cut Table?**

Depending on the chosen Plasma machine you will require a compressor that can deliver clean dry (water/oil free) air at a minimum of 200ltr/min @ 5 bar (65psi).

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**Do I need to be a highly skilled operator to operate a Pro-Cut 1000 Series Table?**

The Pro-Cut Series Cutting Tables are very easy to use and the training provided makes learning easier. Depending on your prior experience with computers, CNC & CAD, you will be up and cutting in no time at all.

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**Do you ship & install the Pro-Cut Tables outside of the UK?**

We deliver, install and provide training on tables sold within the UK and Ireland.

## **What is the overall dimensions of the Pro-Cut 1000 Series Tables?**

The 1m x 1m table is – 140cm x 140cm x h120cm (h180cm including torch cable support arm)

The 1.25m x 1.25m table is – 170cm x 170cm x h120cm (h180cm including torch cable support arm).

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## **What's the maximum sized plate & weight I can fit on the cutting table bed?**

The 1m x 1m table can accommodate a sheet plate size of 110cm x 110cm, max weight of 160Kg

The 1.25m x 1.25m table can accommodate a sheet plate size of 130cm x 130cm, max weight of 160Kg

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## **Can I use a hand cutting torch with the Pro-Cut Series Table?**

Yes, supplied with the Jasic Plasma system is a 6m Plasma hand torch that once connected to the Jasic Plasma power source gives you the ability to free hand cut at your leisure.

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## **What thickness of metal can I cut with the Pro-Cut 1000 Series Table?**

The cutting process & software determines the thickness of material that can be cut, we recommend and install the Jasic Plasma power source to the Pro-Cut Series Cutting Table and the options are as below:

- **Jasic Plasma Cut 45PFC** is a 1ph 230V system that will provide a pierce cut of up to 6mm.
  - **Jasic Plasma Cut 60** is a 3ph 415V system that will provide a pierce cut of up to 16mm.
  - **Jasic Plasma Cut 80** is a 3ph 415V system that will provide a pierce cut of up to 20mm.
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## **What speeds can I cut with the Pro-Cut 1000 Series Table?**

Cutting speeds are determined by a number of factors for example: material thickness along with Plasma power source cutting amperage. The Pro-Cut is capable of cutting speeds of up to 6000mm/min. The Pro-Cut table software will determine these factors and sets the speed that best fits the material thickness and cutting amperage for you.

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## **What's the advantages of using Plasma over Oxy-Acetylene?**

The Plasma process greatest advantage is its ability to cut non-ferrous metals such as stainless steel & aluminium as well as ferrous metals. Speed and precision cutting with minimal heat effected zone is also a major benefit of Plasma, which cuts with minimal slag and will provide smooth cuts with a narrower kerf than that produced with the oxy-fuel process of materials less than 50mm. The Plasma process does not require the metal to be preheated either prior to cutting saving time and costs and working on compressed air generally makes for lower running costs and is a safer gas to use.

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## **I would like a demo to see one for myself, is this possible?**

Yes, by appointment only, you are more than welcome to visit our excellent facility in Manchester where we have a 1m x 1m Pro-Cut 1000 Series Table fully set up and ready to be demonstrated to you within our Wilkinson Welding Academy.

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## **Does the Pro-Cut require much maintenance and how well is it supported?**

The Pro-Cut 1000 Series Cutting Table is simple yet well designed in which maintenance and repair requirements are much lower than you might expect. In the unfortunate event that you do require our assistance, we provide an excellent aftersales service for the cutting table in case you need help and support.

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## **What is the benefit of the Water Table on the Pro-Cut 1000 Series Cutting Table?**

The Pro-Cut CNC Plasma Water Table is a cost-effective way of minimising harmful sparks and catches up to 98% of fumes and dust that's produced as a result of cutting metals which reduces the need for a suction hood.

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## **What is Biologicut?**

The Pro-Cut Water Tables utilise a plasma fluid called Biologicut that's part mixed with water at a 20:1 ratio (20 parts water, 1 part Biologicut). Biologicut is non-toxic which helps in preventing corrosion and bacteria. Biologicut is environmentally friendly emitting no harmful vapours.

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