# Swift-Cut
## AUTOMATION

WITH THREE MACHINE SIZES, & MULTIPLE PLASMA POWER SOURCES
WE CAN MATCH A MACHINE TO YOUR PRODUCTION REQUIREMENTS

IDEAL FOR WORKSHOPS, METAL FABRICATORS, REPAIR OUTFITS,
EDUCATIONAL ESTABLISHMENTS, DESIGNERS AND ARTISTS

▼ Swift-Cut is No.1 in class
▼ Affordable in-house metal cutting
▼ Supreme cut quality without compromise
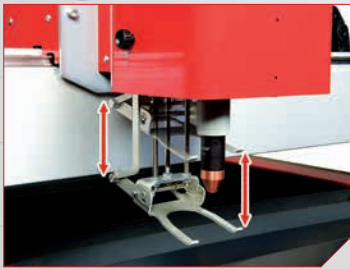▼ Out-performs many expensive alternatives
▼ Design and built in the UK

MADE IN THE UK

CE Certified

# Swift-Cut AUTOMATION

Software

Fully Enclosed Cutting Head

Gantry Beam

Heavy Duty Gantry

Heavy Duty Base

Linear Rail

Soft Sense Torch Height Control

Plasma Gantry
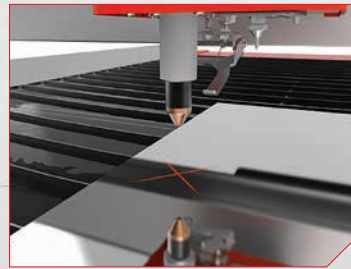
Laser cross hairs aid in the positioning of the cutting head

Plasma Gantry Linear Guide Ways

## Swift-Cut CNC Plasma Cutting Table

- Water tray for efficient control of sparks and fumes
- Removable stainless steel splash guards for side rail protection
- Dropped rails for ease of loading full sheets
- Gantry parking to allow full sheet to be loaded overhead
- Heavy duty steel construction with durable paint finish
- Linear guideways for fast accurate motion
- High speed axis motors with closed loop feedback (encoder) for accuracy and reliability
- Dual drive Y-axis
- Rack and pinion drive system
- Breakaway head eliminates damage to torch and improves safety
- Laser guide for easy sheet positioning
- Cut metal up to 25mm thick depending on the Hypertherm Powermax unit selected
- Soft sense Digital Torch-Height Control (DTHC) Quick response for improved cut quantity and improved torch consumable life. This unique touch sensing is so soft and accurate even the thinnest sheet metal will not deflect while sensing.
- Dynamic Cut Control (DCC) is available on all Hypertherm Powermax models, This feature enables Software control of cutting amps and air pressure, Error messages, air pressures and critical data from the plasma unit is displayed on Swiftcut control screen for operator convenience, On the fly arc voltage, air pressure and cutting speed control ensures the highest quality cut at all times. INDUSTRY 1st UNIQUE TO SWIFT-CUT

MADE IN THE UK

CE Certified

# Swift-Cut AUTOMATION

## Three Machine Sizes & Multiple Plasma Power Sources

- 1250 x 1250mm
- 2500 x 1250mm
- 3000 x 1500mm

We can match a machine to your production requirements

## Machine Upgrades

### Swift-Marker Unit (P9062)

Swift-Marker unit – integrated pneumatic marker. Can be used to automatically mark text, fold lines & centre marks on components prior to profiling to avoid costly second operations. Great for part numbering or serial numbering of parts.
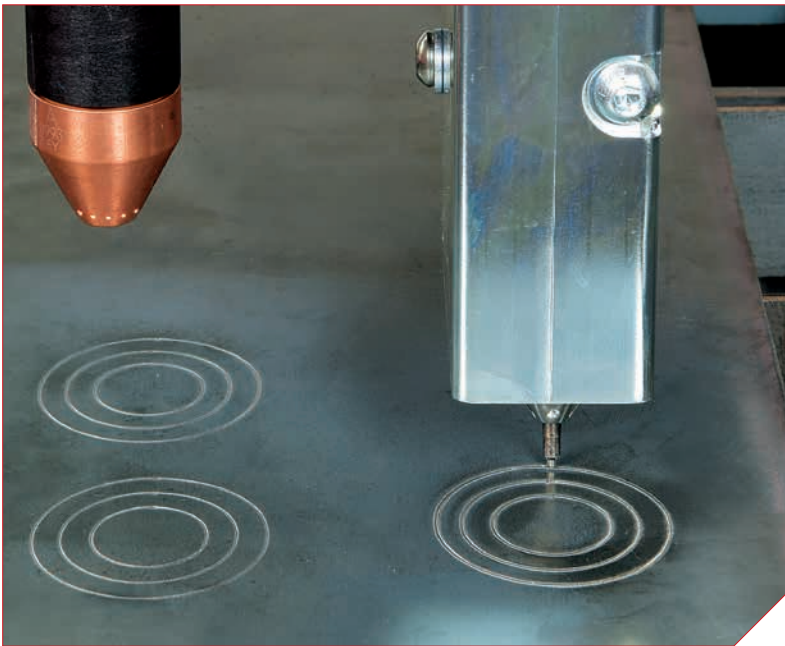
Swift-Marker Optional Extra (P9062)

## Swift-Cut Plasma Table Kits

Kits includes Swift-Cut Table and Plasma System

**Model** Swift-Cut 1250WT

| Cutting Area mm | Hypertherm Model | Order Code |
|---|---|---|
| 1250 x 1250 | 45XP | P9010 |
| | 65 | P9011 |
| | 85 | P9012 |
| | 105 | P9013 |
| | 125 | P9014 |

**Model** Swift-Cut 2500WT

| Cutting Area mm | Hypertherm Model | Order Code |
|---|---|---|
| 2500 x 1250 | 45XP | P9020 |
| | 65 | P9021 |
| | 85 | P9022 |
| | 105 | P9023 |
| | 125 | P9024 |

**Model** Swift-Cut 3000WT

| Cutting Area mm | Hypertherm Model | Order Code |
|---|---|---|
| 3000 x 1500 | 45XP | P9030 |
| | 65 | P9031 |
| | 85 | P9032 |
| | 105 | P9033 |
| | 125 | P9034 |

Note: Down draft tables are available POA.

## Plasma Power Source

Hypertherm's Powermax market leading range of air plasma cutting systems enable you to cut any electrically conductive metal up to a thickness of 25mm, depending on the unit selected.

Choose from their Powermax range 45/65/85/105/125

| System | Current Output | Cuts up to (Mild Steel) | Duty Cycle (Typical) |
|---|---|---|---|
| Powermax 45 | 20-45A | 12mm | 50% @ 45A 60% @ 41A 100% @ 32A |
| Powermax 65 | 20-65A | 16mm | 50% @ 65A 100% @ 46A |
| Powermax 85 | 25-85A | 20mm | 60% @ 85A 100% @ 66A |
| Powermax 105 | 30-105A | 22mm | 80% @ 105A 100% @ 94A |
| Powermax 125 | 30-125A | 25mm | 100% @ 125A |

**Hypertherm®**
Cut with confidence®

Made in USA

SwiftCAM software is the most advanced software available in its class, with built in automation of many functions & settings ensures that anyone with a basic knowledge of computers will be capable of operating the CNC plasma cutting system. Minimal training requirements means the table will be operational almost immediately, maximising output from the start.

The Standard software supplied with every Swiftcut PRO series table boasts features such as automated control of the plasma cut settings as well as real-time feedback on the CNC of air pressure, amps and arc voltage monitoring, In fact the SwiftCAM software is so intuitive it automatically senses the arc voltage based on real-time feedback and applies this to the digital torch height system for the highest quality cutting results on any material.

The Hypertherm Plasma is 100% controlled by the CNC so there is no need to make any manual settings.

SwiftCAM as standard has a library of over 80 parametric shapes, all you have to do is adjust the sizes and cut the part, great for quickly processing flanges, baseplates, brackets etc.. If your looking to cut more advanced shapes the advanced drawing importer assists you to import your drawing and automatically analyses & cleans up any drawing errors, this can then be saved as a clean drawing in the parts library.

Sheet setup is easy with the laser assist system coupled with the sheet rotation function saving any manual shifting or alignment of the sheet. Do you require multiple setups? We have that covered as well with the multiple user assigned reference points allowing you to have several pre-set setup datums.

## SwiftCAM Software - Advanced

Are you planning to cut a large array of different parts in 1 sheet? If so the SwiftCAM advanced upgrade has the features to automate this for you, import multiple drawings simultaneously and then automatically nest these drawings using the advanced Automatic Part in Part nesting feature. This will give you the best sheet utilisation and automation of nesting saving you valuable material and time.
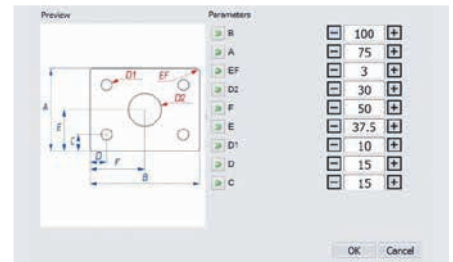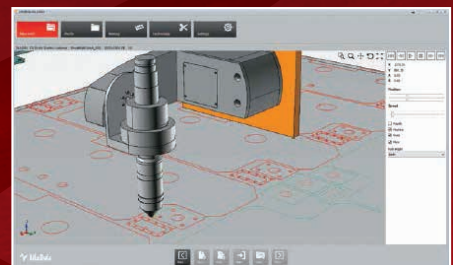

Large Library of Parametric Shapes

## SwiftCAM Software

| Order Code | P9055 Standard | P9056 Advanced |
|---|---|---|
| DXF / DWG drawing Import | ✔ | ✔ |
| JPEG Image import | ✔ | ✔ |
| Parametric shapes library | ✔ | ✔ |
| Advanced drawing importer | ✔ | ✔ |
| Sheet trim function | ✔ | ✔ |
| Sheet rotation function | ✔ | ✔ |
| Program cut recovery function | ✔ | ✔ |
| Favourite programs shortcuts | ✔ | ✔ |
| Multiple user assignable reference points | ✔ | ✔ |
| Automatic cutting calculations (volts, amps, air) | ✔ | ✔ |
| Automatic cutting path application (lead in/out) | ✔ | ✔ |
| Auto Arc voltage capture | ✔ | ✔ |
| Dry run for program testing | ✔ | ✔ |
| Cutting time estimation | ✔ | ✔ |
| 2D cycle simulator | ✔ | ~ |
| 3D cycle simulator | ~ | ✔ |
| Manual nesting of parts | ✔ | ~ |
| Automatic advanced part in part nesting | ~ | ✔ |
| Multiple simultaneous DXF import | ~ | ✔ |
| Additional SwiftCAM software licenses can be purchased | | |


Multiple Work Piece Nesting


3D Real Time Simulation - Level 3