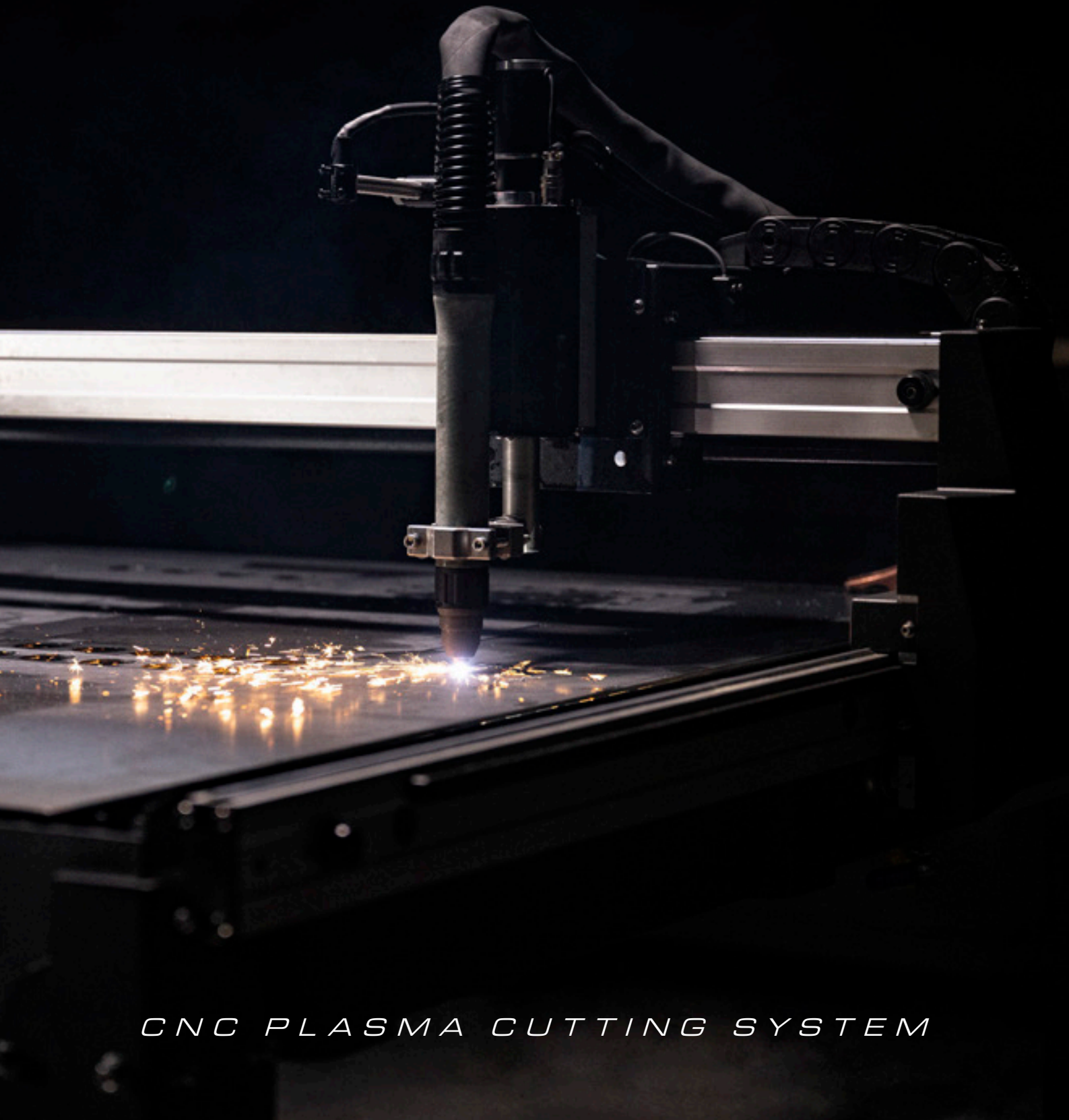# UNIMIG
STEALTH

CNC PLASMA CUTTING SYSTEM

UNIMIG
STEALTH

Introducing the Stealth 1200 and Stealth 2400 CNC Plasma Cutting tables by UNIMIG, designed to revolutionise your metal cutting experience.

Packed with a range of features, the Stealth CNC tables cater to both novice and experienced users. The intuitive user interface and easy-to-use touch screen simplify the CNC cutting process, allowing newcomers to quickly master the entire process. Advanced functionalities, like the automatic torch height control and adjustable sighting laser, offer seasoned professionals the tools they need to execute complex tasks with ease.

Unlike other CNC tables that require you to build them yourself, the Stealth CNC tables arrive mostly assembled and are pre-calibrated for UNIMIG machines. That way you'll spend less time piecing it together and more time cutting.

These state-of-the-art tables feature a robust construction that guarantees durability and precision for every project. Crafted from professional-grade high-quality materials, both the Stealth 1200 and 2400 provide exceptional reliability and ease of use, making them the perfect choice for demanding environments.
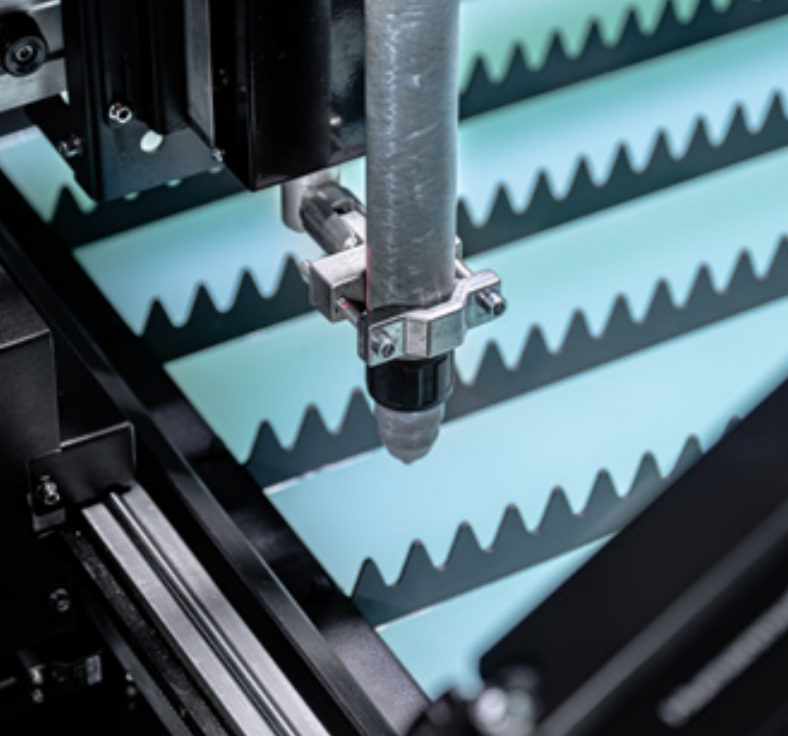
MINIMAL ASSEMBLY REQUIRED

The Stealthy 1200 and 2400 arrive near fully assembled and are pre-calibrated for rapid and precise deployment. This significantly reduces the time typically required for assembly and calibration of CNC systems.

BUILT-IN WATER BED

The built-in water bed on the Stealth CNC table works to absorb fumes and sparks, giving you a cleaner workspace. With laser welded joints, the water bed is completely leak-free. It comes with two ball valve controlled drainage points with standard hose fittings for quick and easy draining.
Additionally, the tables come with laser-cut mild steel slats, and the slat slots mean you can easily replace slats that become warped or damaged.
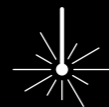
ADJUSTABLE SIGHTING LASER

Each Stealth CNC table is equipped with an adjustable offset sighting laser, ensuring precise alignment and eliminating the guesswork for pierce locations and plate alignment.
No need for expensive add-on accessories, the Stealth CNC tables come fully equipped with all necessary features right from the start, providing you with a clear, constant visual of where the cut will start every time.

TRUE CUT SIZE

Midigate material wasteage with a true 1.2x1.2m half-sheet or 1.2x2.4m full-sheet cut size. The gantry will travel 1.23x1.22m on the Stealth 1200 CNC, and 1.23x2.44m on the Stealth 2400 CNC, so you can guarantee you'll get the full size of the table to cut across.

LOW MAINTENANCE RACK & PINION

The rack and pinion systems on the X & Y axes provide consistent and precise linear movement. Made from hardened steel, they're resistant to wear and deformity, prolonging their lifespan and minimising the need for maintenance.
The rack's teeth are straight cut, which distributes the load uniformly across the tooth face and contributes to their precision and reliability. Plus, their inverted position helps protect them from dust, chips, and other contaminants, preventing downtime.

ADJUSTABLE LEVEL CASTER FEET

Easily move the table using the swivel caster wheels and achieve easy and precise table level across most surfaces with the adjustable levelling feature on the wheels.
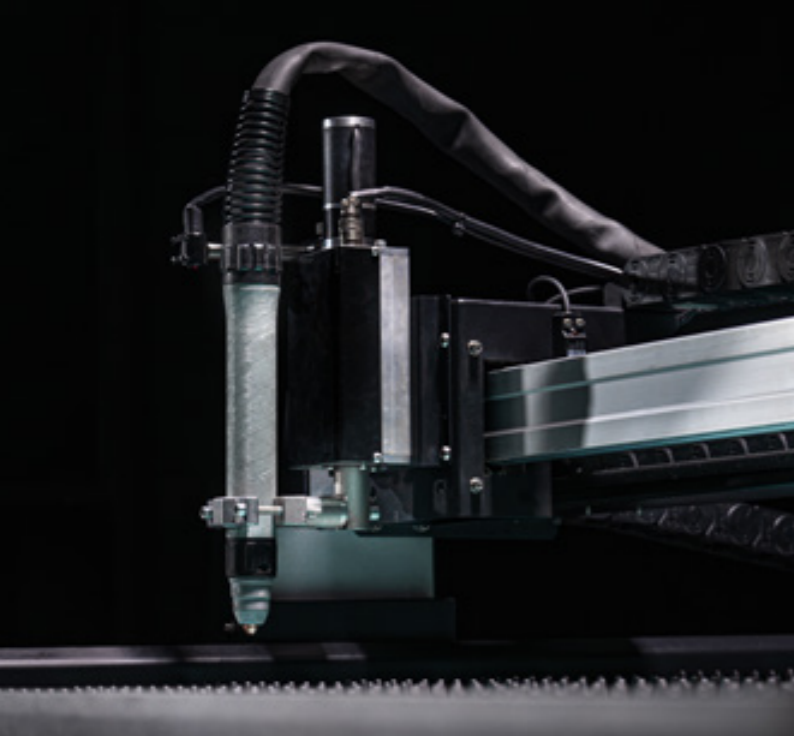
AUTOMATIC TORCH HEIGHT CONTROL

This system continuously monitors and adjusts the torch height in real time to maintain the optimal height while cutting over wavy or warped material. By maintaining the optimal height, you get a consistent cutting quality, minimal dross, increased consumable life and faster cutting speeds.

UNIMIG ARC PATH CNC CONTROL SOFTWARE

The 21-inch touchscreen computer comes mounted on a fully adjustable arm and pre-installed with our in-house, custom-designed UNIMIG Arc Path CNC Control software. Arc Path accepts G-Code Design files, or alternatively, you can plug in a USB or a shared network folder and load your own files. We've also included CAM nesting software powered by FLCAM that accepts DXF files.
Maximise Your Production

RELIABLE AUSSIE SUPPORT

Your Stealth CNC table includes exclusive access to our expert technical support team. Whether you need quick troubleshooting to get back up and running or assistance with a specific program, UNIMIG is here to help.
Have questions? Ask us now!

AUTOMATIC COLLISION DETECTION & LIMITER SWITCHES ON ALL AXES

With limiter switches on all axes and an automatic collision detection system, the Stealth tables use sensors, software algorithms, and real-time data processing to detect and prevent potential collisions and stop them from exceeding their predefined range of motion.
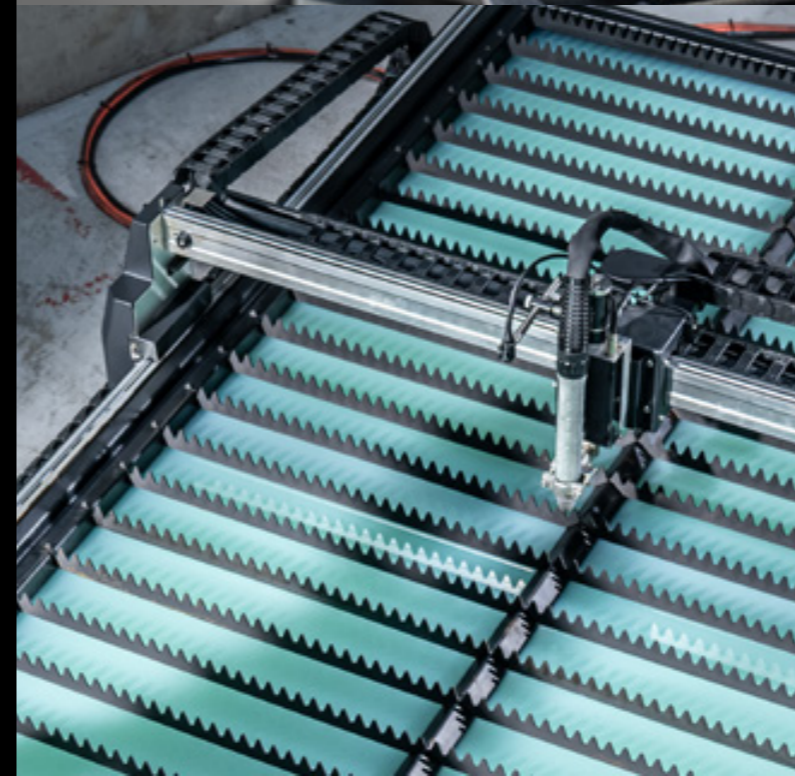
MAXIMISE YOUR PRODUCTION

Let the Stealth CNC tables handle the heavy lifting so you can increase your productivity. The Stealth CNC tables allow you to produce more parts and projects efficiently. Optimise your cuts and nest parts on full sheets to minimise loading time and reduce material waste.

ADDITIONAL FEATURES

- Extruded Aluminium Axes Rails
- Dual Hybrid Stepper Motor Driven Gantry
- Quad Bearing Roller & Stainless Steel Guide Rails
- Precision Ball Screw Z-axis Drive
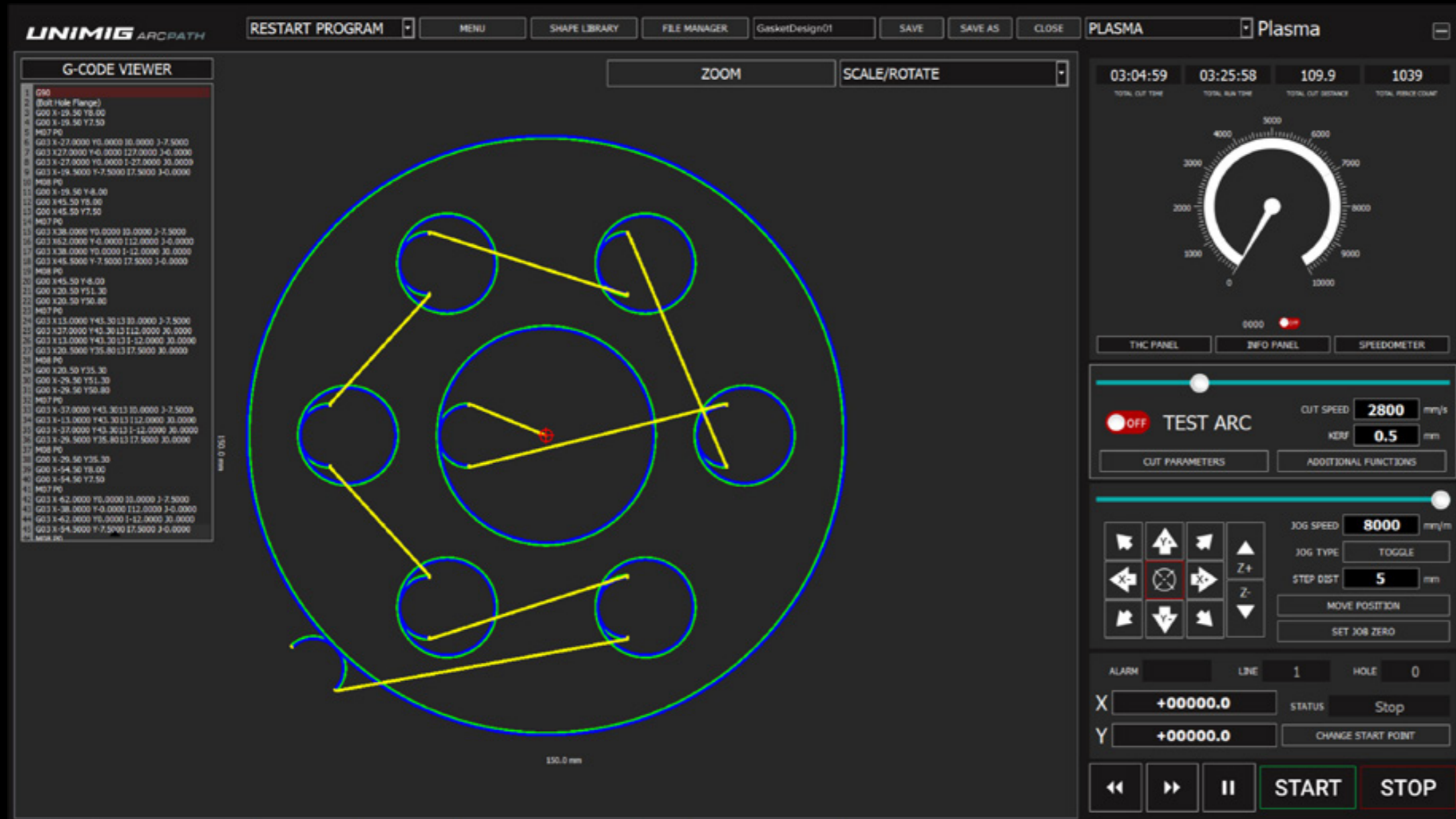- Waterproof Quick System Connectors

UNIMIG

ARC*PATH*

CNC CONTROL SOFTWARE

Introducing our CNC Control software, Arc Path. Designed in Australia to meet the rigorous demands of both Australian fabrication shops and CNC operators alike, this software seamlessly integrates with the STEALTH 1200 and 2400 CNC Plasma Cutting Systems, providing a robust and versatile solution for all your cutting needs.

The CNC Control software features a touch screen interface for quick and intuitive control, allowing users to navigate effortlessly through its powerful functionalities. For those who prefer traditional methods, the software also supports standard mouse operation.

Arc Path is packed with powerful tools that streamline cut preparation and significantly reduce both time and material wastage, optimising your cutting processes for maximum efficiency.

TOOL PANEL

Quickly edit your existing design using our powerful and convenient tools. Satisfied with the changes? You have the option to overwrite the original design or save it as a new one.

- **SCALE**
- **ROTATE**
- **PLATE ANGLE ADJUST**
- **PATTERN - ARRAY**
- **EDIT G-CODE**
- **REVERT CHANGES**
- **ZERO ORIENTATION**

CUT PARAMETERS

A database of pre-configured settings for the most common material types and thicknesses, tailored for use with UNIMIG Plasma cutters, has been installed to ensure you have workable settings without the need for costly testing. You can also create your own parameters based on your individual cutting preferences.

KERF COMPENSATION

Quickly adjust the kerf compensation based on your consumables on the fly. This allows you to achieve precise cuts without the need to alter your design files.

EASY CUT SIGHTING

Arc Path features several tools that aid in both sighting the cut position and determining how much material the cut will use.

LASER OFFSET - Replace the torch position with the laser position with a single press.

FRAME TEST - Shows you the perimeter square for your active design file.

DEMO MODE - Run the cut job like normal without firing the plasma torch. This allows you to spot potential issues before wasting material.

FILE MANAGER

Using the Windows operating system, you can easily share files via the network or with common USB sticks to move between PCs. The file manager in Arc Path lets you access your files just as you would on any PC. You can also duplicate, delete, rename, and move files as needed.

JOG MODES

- **TOGGLE** - Press and hold to move.
- **CONTINOUS** - Press and release to move.
- **STEP** - Press to move a pre-set distance.

JOB CONTROL PANEL

With Arc Path, you can easily pause an active cut job, rewind the cut, or move forward along the cut path. You can also specify a particular hole or line for the torch to move to.

SHAPE LIBRARY

With 99 different shapes, Arc Path can quickly perform cuts of various commonly used lines, shapes, or calibration cuts. The shapes are fully configurable, including lead-ins and lead-outs.

SPECIFICATIONS

	STEALTH 1200	STEALTH 2400
PRODUCT SKU	U11097	U11098
EXTERIOR DIMENSIONS (Width, Length, Height)	170 x 180 x 115 CM	170 x 346 x 115 CM
TABLE WEIGHT	200 KG	340 KG
MAX CUT DIMENSIONS (With Limiter Switches Disabled)	1.23 M x 1.22 M	1.23 M x 2.44 M
MAX TABLE LOAD	135 KG	270 KG
WATER BED CAPACITY	170 L	350 L
TABLE INPUT VOLTAGE:	240V 10A	
AXIS TYPE	3 Axis (X/Y/Z)	
HEIGHT CONTROL	Automatic & Manual	
AXIS LIMITER	Physical X/Y/Z Proximity Sensor Switches	
FUME & SPARK MANAGEMENT	Built-in Water Bed With Integrated Slat Slots	
MAXIMUM JOG SPEED	8,000 MM/M	
CNC CONTROLLER	Purpose Built Multi-Tool Controller	
CONTROL INTERFACE	Windows 10 PC with 21" Touch Screen	
SOFTWARE	UNIMIG ARC PATH CNC Control Software + CAM/Nesting Software Included	

MATERIAL FINISH & CONTRUCTION

Heavy Duty Powder Coated Steel

Laser Welded Joints

Surface Milled Chassis

Extruded Aluminium X/Y Axis Rails

Stainless Steel Machine Bolts

Hardened Steel Rack & Pinion (X/Y)

AXIS SPECIFICATIONS

X AXIS

MOTOR TYPE	Hybrid Stepper DC 24V
DRIVE TYPE	Single drive Spring Tensioned Inverted Rack & Pinion
RAIL TYPE	Hardened Steel Top and Bottom Guide Rails with Quad Bearing Rollers

Y AXIS

|	
MOTOR TYPE	Dual Drive Hybrid Stepper DC 24V
DRIVE TYPE	Dual Drive Spring Tensioned Inverted Rack & Pinion
RAIL TYPE	Hardened Steel Top and Bottom Guide Rails with Quad Bearing Rollers Each Side

Z AXIS

MOTOR TYPE	Permanent Magnet Brushed Geared DC 24V
DRIVE TYPE	Single Drive Precision Ball Screw

PC SPECIFICATIONS

OPPERATING SYSTEM	Windows 10 Pro
SCREEN PANEL	21" Touch Screen
HARDWARE	Intel Core i3, 8gb RAM, 128GB Solid State Drive
NETWORKING	Ethernet, Wi-Fi, Bluetooth

WARRANTY

CNC SYSTEM	2 Year
CONTROL PC	3 Year
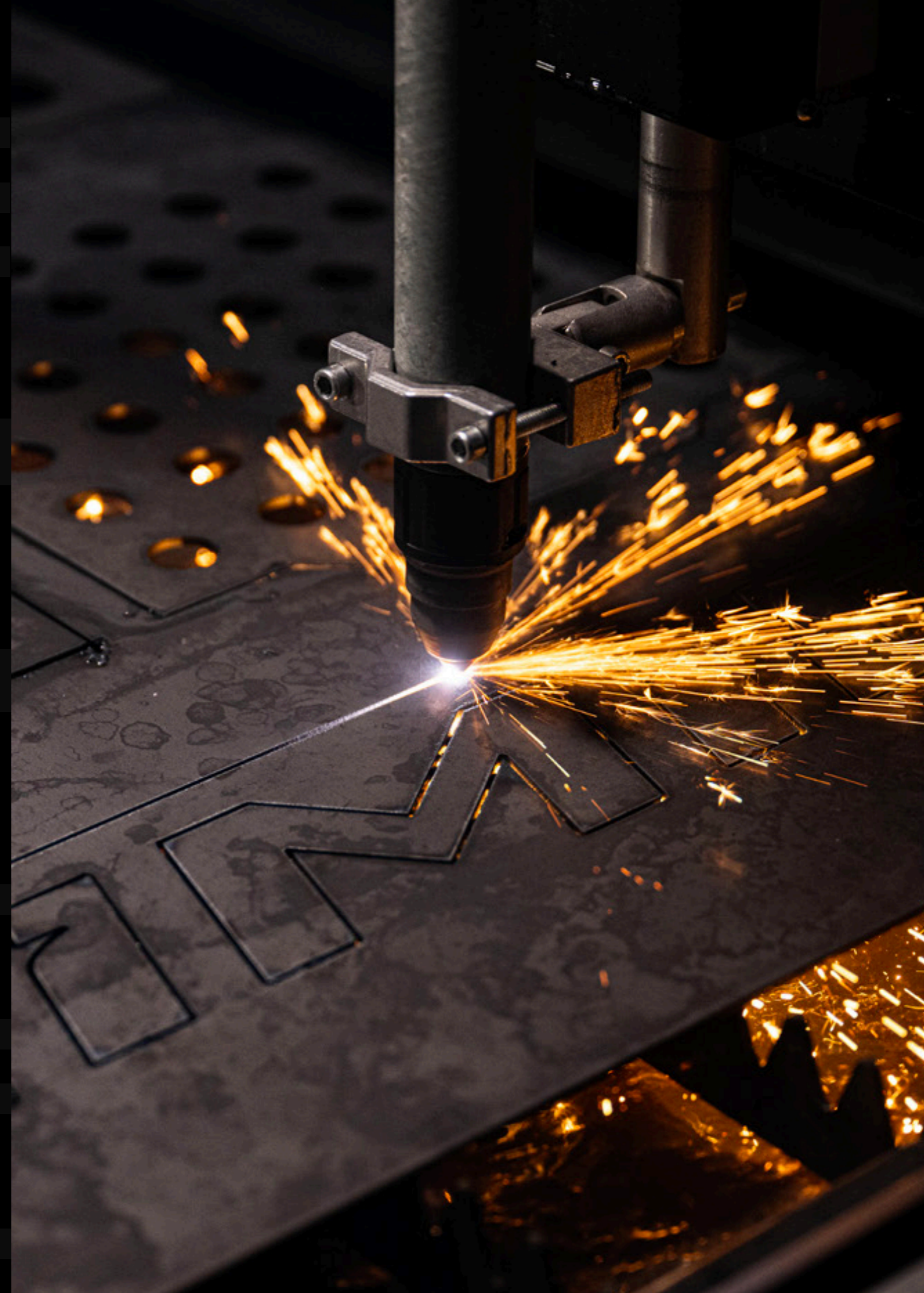
PURCHASE AND PRE-CONFIGURATION

We are now offering direct-to-consumer sales of the Stealth CNC System, ensuring you get the exact setup you need. Alternatively, you can purchase through a local Unimig representative for personalised assistance.

Our sales team is dedicated to providing a pressure-free, personalised buying experience. We guide you in selecting the right model and plasma source, and handle pre-configuration to ensure the perfect setup for your needs.

Already have a CNC-capable UNIMIG plasma cutter? Ship it to us, and we'll configure it to work with your new Stealth CNC table.

The Stealth CNC tables are available for pre-sale, with shipping starting in July 2024. Place your pre-sale order online or by phone **1300 864 644**. You can also email your questions to **support@unimig.com.au.**

WHAT'S INCLUDED

- **CNC Table** - Legs & Gantry Installed
- **Z Axis + Torch Mount** - Installed
- **Control Box** - Prewired & Installed
- **PC** - Preconfigured & Unmounted
- **PC ARM** - Unmounted

- **Height Controller** - Installed
- **Drag Chains** - Assembled & Installed
- **Caster Feet** - Unmounted
- **Material Slats** - Unmounted
- **Lift Hooks** - Unmounted

WHAT'S NEEDED

- **Plasma Source** - CNC Capable
- **Plasma Torch** - Machine Torch Recommended
- **Air Compressor** - Output Based on Plasma Source
- **Air Dryer**
- **Water Table Addative**

STEALTH 1200
SKU: U11097   RRP $9,999

STEALTH 2400
SKU: U11098   RRP $17,999

PLASMA SOURCE AND TORCH

Unsure which plasma source or torch will suit your needs? Speak to one of our CNC specialists to ensure you get the right output and duty cycle for your cutting requirements.

AIR COMPRESSOR AND DRYER

To achieve maximum cut quality and minimal downtime, it is essential to supply the recommended airflow for your chosen plasma source. The plasma source must receive completely dry and cool air, which can be achieved by using a moisture filter or air dryer. Please make sure your compressor setup can handle the required output for optimal performance.

DUTY CYCLE AND AMPERAGE OUTPUT

If you plan to make complex, full-sheet cuts, ensure your plasma source and air compressor have a sufficient duty cycle for extended operation. While a 45-amp cutter might be adequate for your material thickness, it could run out of duty cycle (the duration it can perform at a specified output). In a scenario like this, we recommend a higher amperage three-phase unit, which can sustain the 45-amp output indefinitely.

RECOMMENDED UNIMIG PLASMA CUTTERS

	RAZOR CUT 45	RAZOR CUT 80	RAZOR CUT 120	RAZOR CUT 160
PRODUCT SKU	U14006K	KUPJRRW80	U14002K	U14004K
VOLTAGE INPUT	240V Single Phase	415V Three Phase	415V Three Phase	415V Three Phase
INPUT PLUG	15A	20A	32A	32A
MAX DUTY CYCLE	25% @ 45A	40% @ 80A	60% @ 120A	60% @ 160A
100% DUTY CYCLE	20A	50A	100A	120A
AIR REQUIRED	189 L/min @ 75psi	189 L/min @ 75psi	189 L/min @ 75psi	189 L/min @ 75psi

*DUTY CYCLE: Based on a 10-minute cycle rated in a 40°C environment. 25% of 10 minutes would be 2 minutes 30 seconds of run time.

RECOMMENDED UNIMIG MACHINE TORCHES

Machine torches are designed with a straight shaft instead of a 90-degree elbow and handle. This style of torch allows for easy lead management and torch mounting, resulting in far greater repeatability of cuts. Regular 90-degree hand torches tend to crash into the sides of the table, depending on how they're mounted, which can diminish the size of the cutting area.

Our machine torches use the same consumables as their hand torch counterparts, allowing you to conveniently source parts from your local UNIMIG dealer.

	SCM80R	SC120M
PRODUCT SKU	WG-SCM80R-60	U43001
MAX OUTPUT	80A	120A
DUTY CYCLE	60% @ 80A	60% @120A
LEAD LENGTH	6M	12M

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