CutPro

Ultra heavy-duty CNC Plasma Cutting System

PLAZMAX®

Ultra-heavy-duty CNC plasma cutting system for large plate processing and heavy manufacturing

For extreme duty applications look no further than Plazmax's CutPro.

PRECISION BEVELLING
UP TO ±50°

19" TOUCH CONTROL PANEL
FOR QUICK PRE-SET SETTINGS

TURNKEY INSTALLATION
& TRAINING INCLUDED

RAIL MOUNT OPTIONS FOR
EXISTING TABLES AVAILABLE

Key Features

Best suited to high-definition Plasma Cutting, Bevel Cutting, Multi Torch Cutting and Oxy-Fuel Systems, the CutPro makes light work of the most demanding tasks, and with almost unlimited flexibility, you can have your CutPro built exactly to the size and specs you need.

- Ultra heavy-duty rigid design for large-scale operations
- Completely customisable in both width and length
- Modular system, built to your specification
- Easy Camera Plate Alignment
- Quality standardised components readily available and always stocked
- Remote support enabled for help anytime, anywhere
- Fully Integrated Hypertherm software and hardware
- Standalone 19" Touch Screen Console
- Scribing and Oxy-torch compatible

TECHNOLOGIES & ADD-ONS

Flexible Configurations

The CutPro is available in two configurations; the CutPro Rail is a floor mounted X axis rail and gantry system suitable for retrofitting over an existing or new table, whereas the CutPro HS comes in a versatile modular pod configuration allowing almost unlimited length.

Advanced Bevelling

Utilising Plazmax's very own in-house designed and manufactured compact CNC Bevel Head, cut angles of up to ±50° can be achieved with ease.

The Plazmax Bevel Head facilitates superior contour bevelling in A, V, X, Y and K cutting processes and increases both productivity and efficiency by eliminating costly secondary processes.

No need for complex macros or hours of trial and error trying to get the perfect bevel. Simple easy to program functionality comes out of the box when combining our Bevel Head with our latest CNC Controller - Max Control.

- Blind Level Transitions
- Loopless Corner Profiles
- Fully Automated Speed Control
- Pre-tilt Arc Start
- Bevel Recovery
- Post Edge Bevelling

SCAN ME

TECHNOLOGIES & ADD-ONS

MaxControl CNC Software

SCAN ME

Maximize your CNC capabilities with Plazmax's cutting-edge proprietary software.

After many years of inhouse development by a dedicated team of software engineers, Plazmax have designed and built their own proprietary CNC software. The result of this is 'MaxControl', a new and innovative controller that allows us to push our cutting tables to limits no other CNC software is capable of doing.

Taper Free Holes

SCAN ME

Plazmax's revolutionary 'MaxControl' software has evolved to allow users to cut taper free holes below the 1:1 ratio. Achieved through torch head rotation, super-clean straight-walled holes in mild steel, stainless steel, and aluminium are now child's play. Taper free holes as small as 0.5:1 can now be achieved in plate 16mm and up.

Laser Height Sensor

SCAN ME

Whilst conventional CNC plasma cutting systems use the plasma torch itself to physically lower and touch the plate to verify the plate position prior to cutting, Plazmax have developed their own Laser Height Sensor (LHS) module that allows their machines to more quickly and accurately perform this process without any added wear and tear on the plasma torch.

This faster and more accurate process means the machine spends less time transitioning between parts and more time cutting. As a result, Plazmax machines fitted with this technology have been shown to cut at least 28% faster across a full nest of parts.

Regardless if plate is new and clean, aged and rusted or even film coated, Plazmax's Laser Height Sensing technology allows for seamless material detection and precision cutting without compromising on production speeds.

Hypertherm Power Options

The CutPro can be configured and supplied with a choice of Hypertherm power options. Starting with the Hypertherm MaxPro200 for light to medium duty application and working up to the more sophisticated XPR170, 300 and 460 models for more heavy duty tasks and high definition quality cutting.

CutPro HS Specifications

GENERAL SPECIFICATIONS			
Cutting Area (width x length)	2.7m x 7.25m*	3.2m x 7.25m*	3.5m x 7.25m*
	*Add 2.25m pods to extend the machine to your required length. Custom widths available on request.		
Overall Footprint (width x length)	4.1m x 9.6m*	4.55m x 9.6m*	4.9m x 9.6m*
	*Add 2.25m for each extension pod.		
Z Clearance	300mm		
Z Travel	300mm		
Repeatability	± 0.05mm		
Linear Position Accuracy	± 0.1mm		
Rapid Traverse Speed	50m / minute		
Acceleration	≤ 1G		
Drive Description	Bosch or Beckhoff Digital Servo Motors using Ethercat Communication Protocol in conjunction with high quality Helical Rack and Pinion Drives		
Fume Extraction	Downdraft or Waterbed	Downdraft	
Software	MaxControl or Phoenix / Edgeconnect		

KEY FEATURES			
360 Degrees Magnetic Breakaway Torch	✓	✓	✓
Automatic Torch Height Control	✓	✓	✓
Realtime Camera Feed with Crosshair Alignment	✓	✓	✓
Remote Technical Support Enabled	✓	✓	✓
Optional Extras	5 Axis Bevel Head / Oxy Torch / Scriber / Laser Height Sensor / Advanced Taper Correction		

Hypertherm Power Source Specifications

	MAXPRO200	XPR170	XPR300	XPR460
Max Pierce Capacity Mild Steel	32mm	40mm	50mm	64mm
Max Pierce Capacity Stainless Steel	20mm	22mm	38mm	64mm
Max Pierce Capacity Aluminium	20mm	25mm	38mm	50mm
High Definition / X-Definition Cutting		✓	✓	✓
Dedicated Stainless Steel and Aluminium Cutting Modes		✓	✓	✓
Hypertherm True Bevel Technology		✓	✓	✓
Hypertherm True Hole Technology		✓	✓	✓
Hypertherm Plate Saver Technology		✓	✓	✓
Hypertherm Rapid Part Technology		✓	✓	✓
Input Gas	Air, O2, N2	Air, O2, N2, AR, F5, H2, H20		
Supply Gas Pressure	100psi	110psi		
Minimum Power Requirements	3 phase / 63amp	3 phase / 80amp	3 phase / 120amp	3 phase / 200amp

ABOUT PLAZMAX

Developed in New Zealand designed for the world

With over a decade's worth of product development under our belt, Plazmax has produced industry leading cutting systems that meet the needs of New Zealand and Australian engineering and manufacturing companies.

Our current range of Plasma Cutting Systems are widely regarded as the very best on the market with unmatched cutting performance and unrivalled build quality, paired with the very best power sources and software.

At Plazmax we're committed to maintaining our 'best-in-class' status through continuous investment in R&D with our dedicated team of talented engineers and developers. This focus on continuous improvement is why we're confident that our machines are the best choice for engineering companies seeking a competitive edge through increased productivity and efficiency.

Service & Support

Plazmax offers complete turn-key installation for cutting and robotic systems, providing on-site and remote training for both machines and software. With comprehensive service plans, 24/7 on-call breakdown service and remote diagnostics, you can count on reliable support worldwide.

Finance Options

Although it's obvious to most the Return On Investment a high-tech piece of equipment can provide, banks and lenders don't always understand your industry and the importance of such purchases.

We understand buying plant and equipment can be an expensive and sometimes daunting process. That is why we have partnered with specialised industrial/commercial equipment brokers.

GET IN TOUCH

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