





PRECISION CNC THERMAL CUTTING SYSTEMS

Heavy-duty machine tool design - built for hard work.

Cutting Widths from 1.5m (5') to 6.5m (21'4") in 0.5m (1'7") increments.

Cutting Lengths from 2.0m (6'6") in 1m (3'3") increments.

Low profile precision machine rails mounted directly to the floor for high stability.

Twin hardened and ground machine tool grade linear bearings in Y axis for smooth accurate motion.

Direct rack and pinion drives in both axes (no belt transmissions) for accurate & repeatable high speed contouring.

Single & Dual side drive versions available.

Dual side drive machine has dual motor, digitally synchronised rack and pinion X drive for maximum accuracy all over the cutting table.

Powerful & easy to use Windows/PC based CNC

Full colour high resolution graphics display

Multiple torch stations (up to 8) for plasma or oxy-fuel cutting torches.

High-definition and Conventional plasma cutting up to 1000A.

Range of fume-extraction and over/under water cutting tables available.

High power servo drive system giving high speed & acceleration.

Range of plate-marking devices for marking centres, fold-lines, text etc.

Drag-chain cable/hose handling systems in both axes for long cable/hose life.

Precision ball-screw driven arc-voltage torch height control with collision protection device

for plasma cutting applications.

Rapid initial height sensing & retract to minimise cycle times on plasma cutting applications.

Choice of CAD/CAM systems to suit all applications





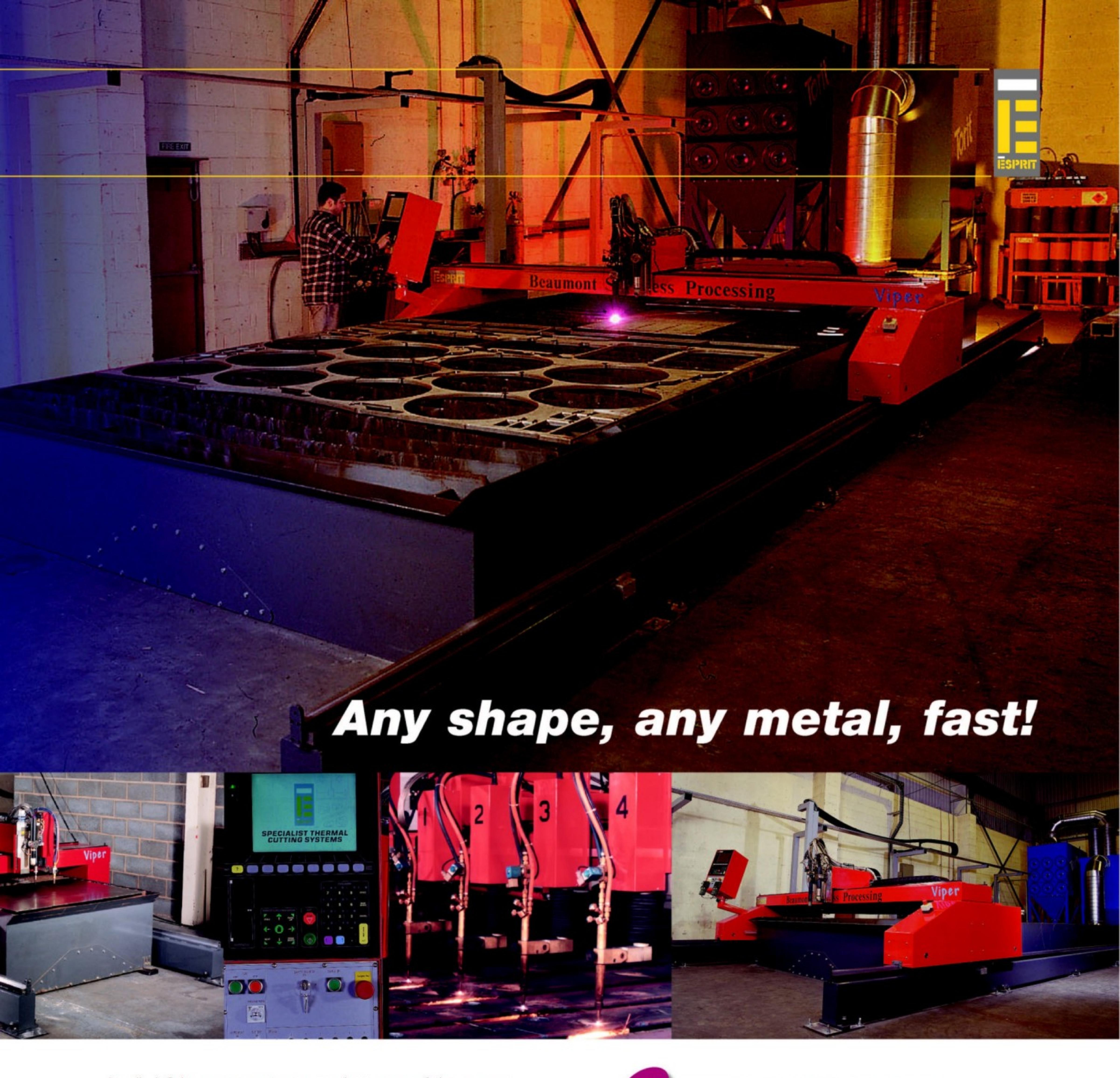
The Esprit Viper is the latest in the line of heavy-duty precision CNC thermal cutting machines from Esprit Automation. The Viper machines are designed and manufactured as precision machine tools and feature hardened and ground linear bearings, precision gearboxes, rack and pinion drives for excellent machine performance. Machines are available in a range of cutting widths from 1.5m (10') to 6.5m (21'4") and can be specified with any cutting length in 1m (3'3") increments. The machine is designed for precision plasma cutting applications and can be specified with both high-definition and conventional and high-definition plasma cutting systems up to 1000A. Oxyfuel cutting heads can also be specified on the machine and a total of 8 separate torch stations can be accommodated on the machine. The Viper has low profile floor-mounted machine rails and a strong rigid beam for high speed accurate contouring. State-of-the-art PC/Windows based CNC technology and high power servo-drives produce high machine axis speeds and accelerations, which enable Viper machines to produce high quality metal components at the very highest levels of productivity.

Process Options

A range of conventional and high-definition plasma cutting systems can be specified with the Viper machines. Viper machines are designed for precision high-definition plasma cutting and this enables the very best results to be obtained with other conventional plasma cutting systems. Increased process integration and automation means that the very best results can be obtained with the Viper machine. Oxy-fuel cutting torches can be specified with the Viper, the automatic gas control system with high pre-heat and multi-stage pierce works with the advanced CNC unit for optimal process automation.

Advanced PC/Windows CNC Technology

The Paragon family of CNC units are specified across the entire range of the company's thermal cutting machines. The benefits of PC/Windows based CNC technology are well known in the machine tool business and Esprit is the first CNC cutting machine manufacturer to specify this exciting technology across the entire range of machines. High resolution colour graphics, the familiar Windows interface, fast processor speeds and



virtually infinite memory storage are just some of the reasons that Windows based CNCs are the preferred choice. Fast DNC communications speed and instantaneous kerf compensation calculation reduce delays in machine set-up.

Esprit Automation

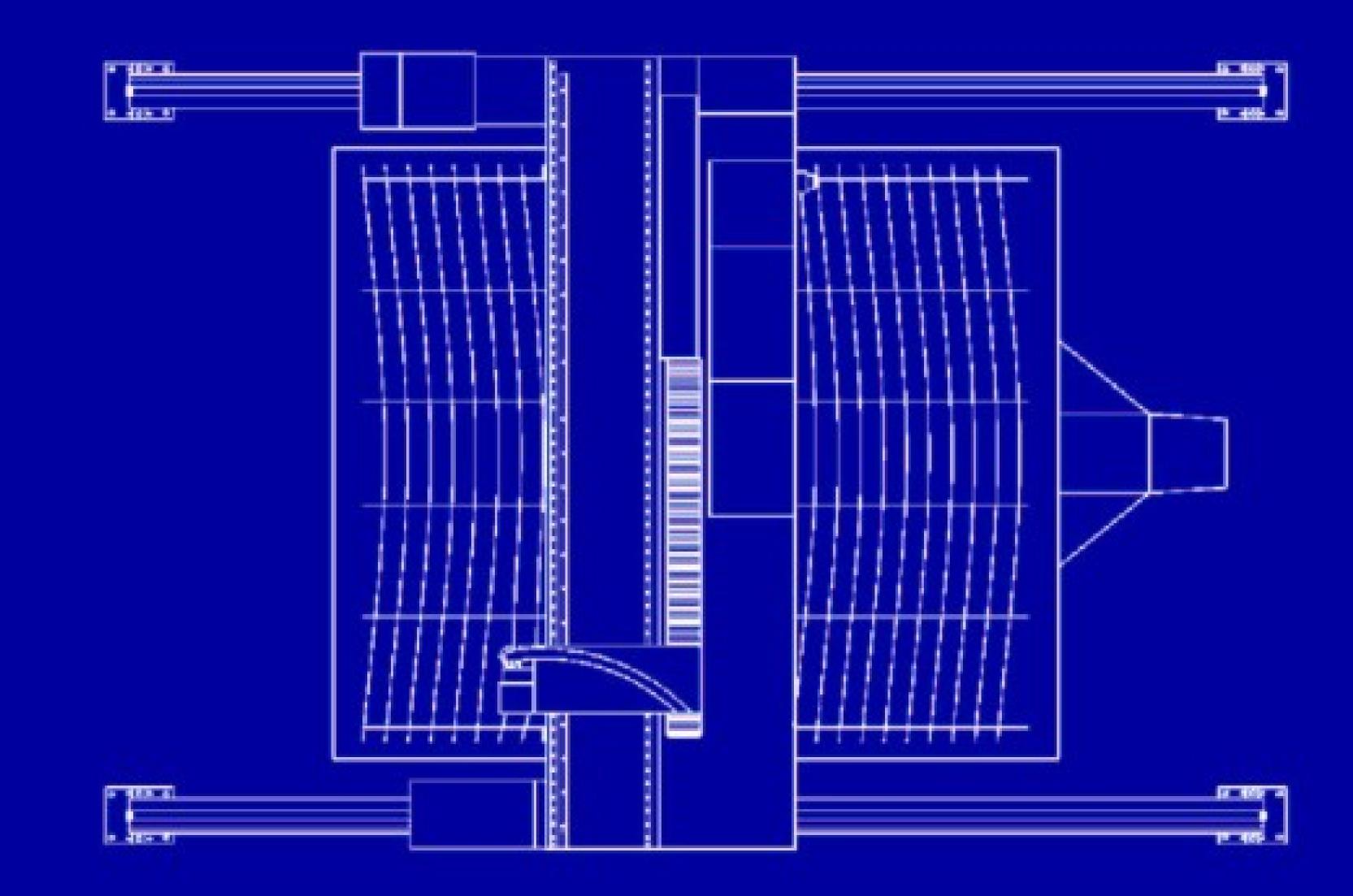
Esprit Automation is a leading world manufacturer of CNC plasma cutting machinery. Based in Nottingham, England the company manufactures a wide range of machines covering the entire range of CNC flat-bed plasma and oxy-fuel cutting applications. Working with our partners throughout the world, Esprit offers a full range of solutions. The plasma cutting process is increasingly the selected choice for efficient metal cutting. Customers choose Esprit because Esprit machines offer exceptional productivity and value.

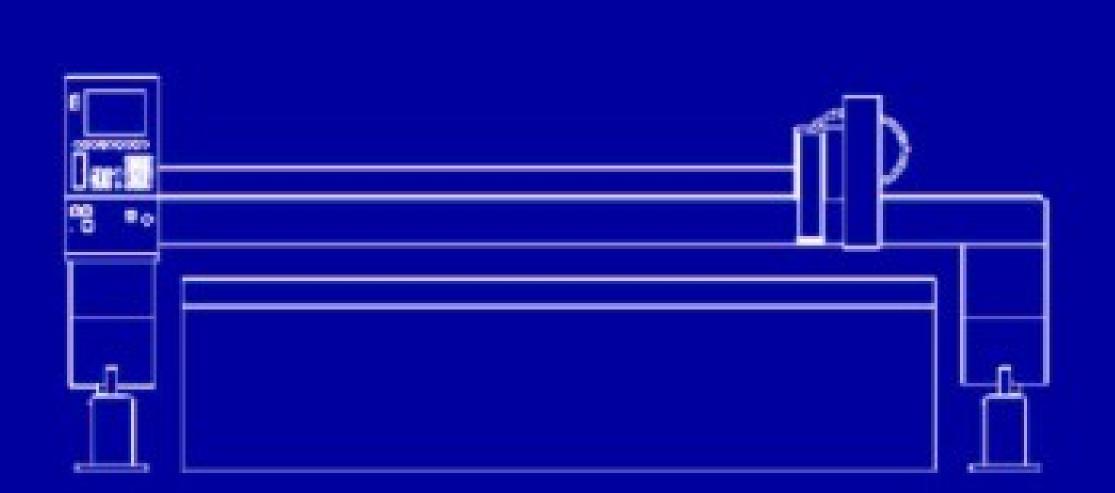
Advanced CAD/CAM Solutions

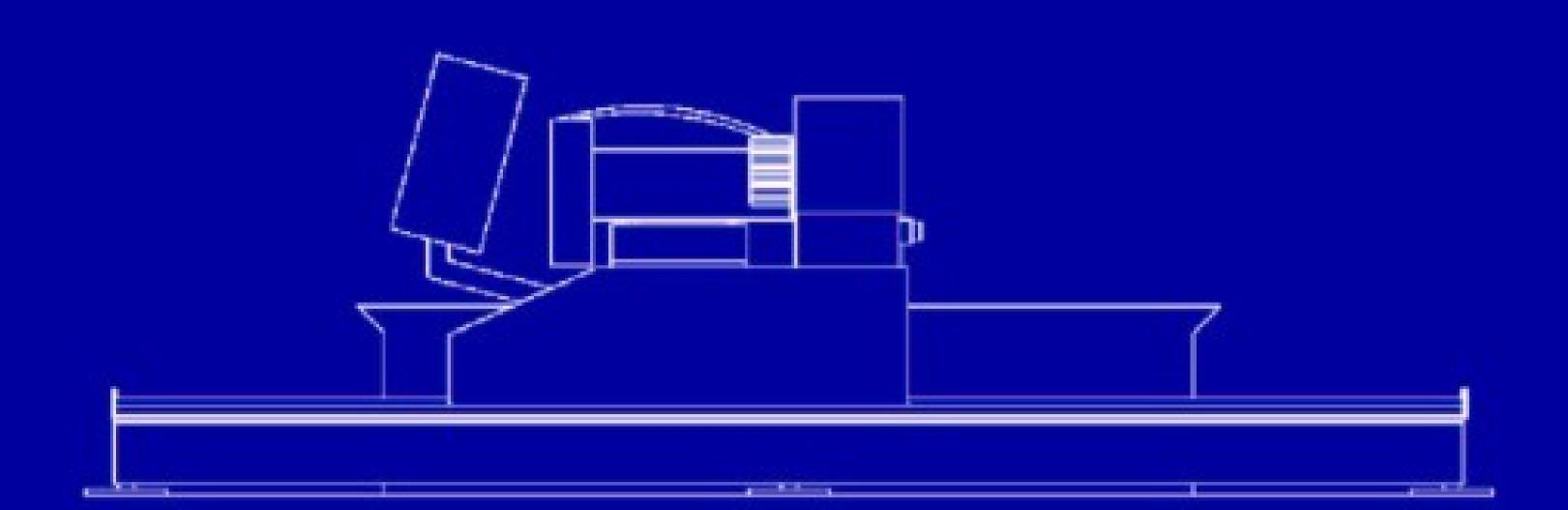
Esprit offers a number of advanced thermal cutting CAD/CAM systems for use with the machines. The Procut system has been a leading product for well over a decade and the latest Windows versions incorporate state-of-the-art True-shape automatic nesting, a powerful drawing system, high speed DNC communications and the benefit of Esprit's extensive thermal cutting knowledge and experience. The latest specialist software for the development of 3-D ductwork shapes is also available.



Technical Specification







	V1500	V2000	V2500	V3000	V3500	V4000	V4500	V5000	V5500	V6000	V6500
Cutting Length* (4m rails)						2.0m					
	6'6"										
Cutting Width	1.5m	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m	6.5m
(plate width)	5'	6'6"	8'2"	10'	11'6"	13'1"	14'9"	16'4"	18'	20'	21'4"
Overall Length* (4m rails)	4.0m										
	13'1"										
Overall Width	2.6m	3.1m	3.6m	4.1m	4.6m	5.1m	5.6m	6.1m	6.6m	7.1m	7.6m
	8'6"	10'2"	11'10"	13'6"	15'1"	16'9"	18'5"	20'	21'8"	23'4"	25'
Overall Height	1,500mm										
	5'										
Maximum Axis Speed	20m/min										
	780ipm										
Input Voltage - Machine						110/230V					
(1phase, 50/60Hz)**											

*Cutting length is available in any multiple of 1m (3'3").

**Other voltages etc are available - please enquire.All values are approximate and are subject to change without notice.

The Company reserves the right to make technical modifications and improvements without notice.

Esprit Automation Limited

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