

User friendly software enables cut parts to be designed, imported or created from templates by digitising and optimally nested for fast and accurate cutting by tangential or rotary blade. Laser driven jog control for increased accuracy and reduced waste comes as standard.

Cut material can be automatically cut and marked with a pen or ink spray, whichever is more suitable. A punching option can also be specified for alignment and ventilation.

The **Orion 2200** is purpose built and comes with a self-assembly option to further accelerate the return on investment.

SPECIFICATIONS

Features	Comment
Twin cutting heads	Tangentially steered tools
Fixed knife	Steel or carbide blade
Rotary knife	Pizza wheel style
Plotter penholder	
Optional rotary punch	
Laser	Available on Genesis 2200
Router	Available on Genesis 2200
Vacuum bed	Heavy duty side channel vacuum pumps. Reverse blow option for material loading.
Safety cut off switch	
Cutting widths	1.5m up to 3.5m
Cutting lengths	1.5m up to 15m
Maximum cutting speed	1000 mm/sec



ORION2200



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THE TECHNIQUE OF CUTTING



ORION2200

Whether progressing from hand cutting or increasing productivity, more companies are choosing the Orion 2200 for automated cutting.

Economical, versatile and built for endurance, the Orion's dynamic cutting performance is available on materials up to 5mm thick. Flexible cutting bed sizes to suit most needs and any future client innovations. Vacuum enabled beds incorporating our "reverse blow" technology ease removal of finished materials and reduce the risk of damage.



TOOLING&MARKING

With both passive and driven cutting options complementing a range of marking and labelling technologies, Blackman & White offer an unrivalled breadth of tooling to cut the majority of applications.

Knife Cutting: To suit the materials which are being cut, customers have the option of rotary or fixed blades on a multi-tool head as well as the unique self-sharpening driven 'pizza' wheel and oscillating blade. The quickly interchangeable nature of the tooling gives the operator optimal cutting flexibility with a high degree of time efficiency. This versatility allows for a wide range of applications from PVC sheeting and composites to aramids such as Kevlar. Another exciting development, unique to Blackman & White, is the ability to simultaneously knife and laser cut on the same machine reducing floor space and the need to procure a separate machine for each function.

Laser Cutting: The laser option on the Genesis 2200 static table and Mastercut further enhances the cutting possibilities. This comes with a 50, 100 or 200 watt power option and ensures an immaculate finish on materials needing to be cut cleanly and accurately and requiring a sealed edge. The laser unit's lightweight construction allows it to be carried on the gantry with no reduction in speed or movement.

Digital Pattern Recognition: A digital camera option is available to automatically align cut patterns to a digital print – a particularly popular option for digital printers and signage manufacturers. The software cleverly compensates for material to stretch and skew so that jobs can be loaded on to the machine and processed automatically without any operator intervention. This can be operated in conjunction with the 6 metre wide cutter ideal for wide format digital printing.

Ink Jet printing and Ink Spray Printing: All cutting machines offer a pen holder for part marking as standard, but for more advanced requirements for print marking and labelling, ink jet and ink spray marking tooling can be integrated onto the machine for identification of cut parts.

Abrading of Hypalon materials: The Blackman & White abrading head, specifically designed for the manufacture of rigid inflatable boats, is a recent highly popular tooling option which has been added to the range of tooling. This enables cutting and then sanding to optimise adhesion.

Label placing: This is an invaluable option for placing adhesive labels to component parts. Software driven, this has proven to be extremely effective for part identification and is available on the Genesis static bed and Mastercut.



SOFTWARE

Our machines are powered by tried and tested software solutions.

Liaising closely with our customers, we choose the software package specific to their needs. The software range we offer is broad, each one offering a cutting-edge solution.

For leather cutting, scanning and projection systems aid operator nesting. Job inventory control and part number projection then enables fast and efficient hide processing.

Pattern scanning enables rapid pattern production from templates created on almost any type of material. Manipulation by Computer Aided Design allows for compensation for curve correction and line straightness. In addition, notches can be created and the parts checked for mirror symmetry.

For high-volume production demands, a system fully integrated into the production process is required. The operator has the flexibility with our software to automate nesting from a batch list on almost any database package.

Powerful software allows for import filters from all popular 2D and 3D modelling packages. Automatic part identification with an ink jet marking unit then eliminates any need for manual marking.

Design variables such as material stretch and distortion under load as seen in the Tensile structures industry require complex calculations and modelling. Inexpensive advanced plug in modules model the design with optimal material usage. This software also supports unwrapping of 3D models to 2D panels, popularly used in the marine industry for creating covers.

