The Swift-Jet Range

Thanks to Swift-Cut, it's never been more affordable or achievable to own a water-jet cutting system. Waterjet technology produces excellent fine-feature cut quality with low edge taper, no heat-affected zone, a narrow kerf, and dross-free cutting.

It also offers the ability to process nearly any material and a thickness range capability unmatched by other cutting technologies.

The Swift-Jet machine with its easy to use software, powered by Hypertherm HyPrecision pumps provides high quality cutting on a wide range of materials at a low-cost investment. Easy to use with exceptional aftercare and support, the Swift-Jet is the answer to affordable, high precision in-house cutting.

Collision probe

Protects the cutting head in the event of a crash.

Hopper Bellows & cover

Prevents dirt ingress for

component protection.

Adjustable abrasive mini hopper at head for optimisation of abrasive flow.

Water tank

Epoxy coated heavy duty steel water tank is long lasting and delivers stability for precise cutting.

AC servos

Dual Y Axis

Omron AC servos with high resolution encoders drive precision ball screws on all axes for unmatched positioning accuracy.

Linear rails

Precision linear rails on all axes provides repeatable positioning across the whole cutting bed.

Enclosed drag chains

Fully enclosed cable drag chains protect cables reducing potential downtime.

Splash guard

Swift-Cut





Dual driven Y axis maintains gantry squareness for the most accurate parts. Omron industrial CNC control system provides a robust and dynamic controller with online diagnostic functionality.

EtherCAT communication

EtherCAT communication throughout machine and HyPrecision pump ensures highspeed communication for motion and I/O control.



Ergonomic standalone operators console with touch, keyboard and mouse inputs.







Swift-Jet is our new, affordable and easy-to-use waterjet profiling solution. Offering precision cutting and superior build quality, this smart machine can be used to cut textiles, rubber, foam, plastics, leather, composites, stone, tile, metals and much more. Our machines are calibrated using the very latest Renishaw ball bar testing equipment, ensuring outstanding dynamic positioning and



SwiftCAM

Swift-Cut's easy to use software guarantees that anyone with a basic knowledge of computers will be capable of operating the Swift-Jet cutting system. Minimal training means the table will be operational almost immediately, maximising output from the start.





Automatic nesting Automatically nests parts for economical sheet usage.

Automatic lead in/out Software automatically applies lead ins/out for quicker programming.

Micro joints Tabs to prevent parts moving whilst cutting.

Bridges Continuous cutting between parts to reduce cycle times.

Common-line cut Cut along shared edges of parts.

Sheet Alignment Align the cutting path with misaligned sheets on the cutting bed.

Reference points User configurable reference points for jig fixtures.

Cut Quality 5 cut quality modes from fine to rough.

Parametric shape library Over 80 configurable shapes.

Part in part nesting Nest parts in scrap areas to fully utilise the sheet.

Customisable cutting rules Optimise cutting parameters for best cutting performance.

Toolsets Pre-programmed toolsets for common materials.

Customisable toolsets Modify or create toolsets for new materials.

Job reports Export job reports displaying scrap percentage and cutting times.

3D Cut Simulation Play a 3D machine simulation of the cutting operation.

3D part preview Preview the part in 3D before cutting.

Available in 2 sizes





SJ1500 1525mm x1525mm cutting area (5' x 5')

Optional Extras

Water Softener and Boost Pump Reverse Osmosis System Water only cutting head Standard tool kit

- No heat ingress into material
- Precise repeatable cuts
- Weld ready parts

Machine Performance

Maximum traverse speed	Maximum Z clearance	Positional accuracy	Tank Depth
15m/min (590 ipm)	220mm (8.5")	0.0150mm (0.001")	840mm (33")

Pump Options

Source: Hypertherm

Model	Power	Pressure	Max. output flow	Max. orifice size
HyPrecision P-30	30hp/22kw	60,000psi/4136bar	2.3 l/min/0.60GPM	0.28mm/0.011"
HyPrecision P-50	50hp/37kw	60,000psi/4136bar	3.8l/min /1.00GPM	0.35mm/0.014"



For more information contact

swift-cut.com



SJ3000 1525mm x 3050mm cutting area (5' x 10')

Benefits of Water jet cutting

• Can cut a range of materials including metals, stone, plastics, wood and foam



Swift-Jet Range CNC Waterjet Cutting System Brochure



Hyperthe