

Swift-Cut

SWIFT-LASER PRO

AN **ESAB**® BRAND



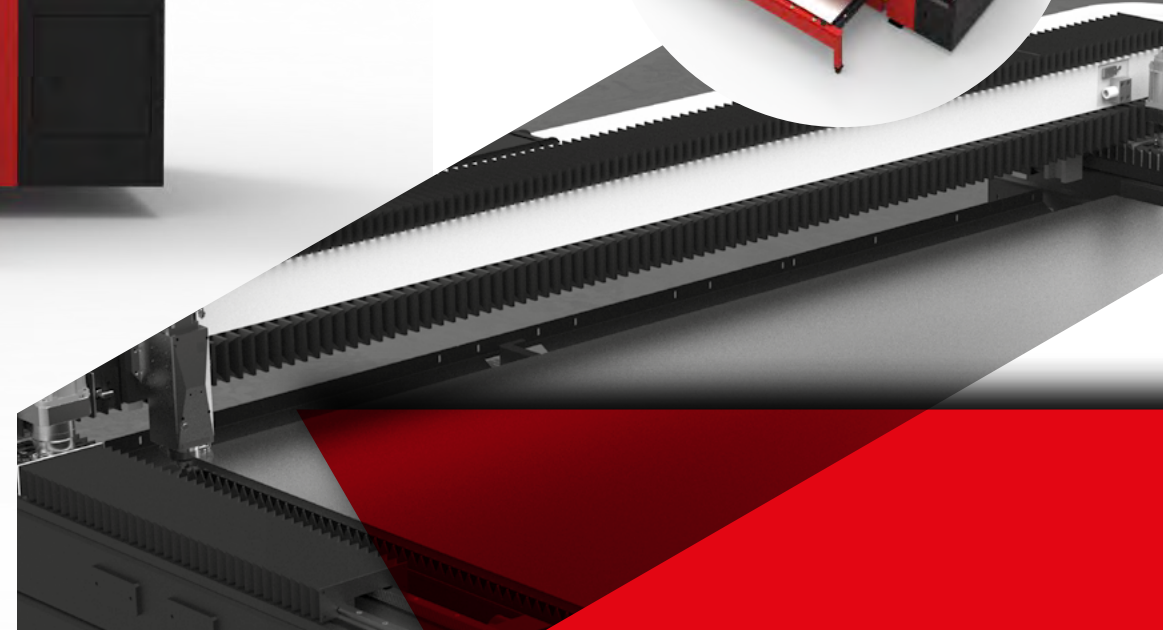
CNC LASER CUTTING SYSTEM

Introducing the Swift-Laser Pro

A collection of 3kw, 6kw, and 12kw fully enclosed CNC fibre laser systems, designed to take your in-house cutting performance to the next level. Featuring high-performance components combined with a robust fully welded base, the Swift-Laser Pro range delivers superior capability and value in a fully unitised package.

Why choose a Swift-Laser Pro?

CNC laser is the pinnacle of metal cutting technology for thin to medium thickness metal sheet. Drawing on over 15 years of experience in CNC plasma and waterjet technology, Swift-Cut created a blueprint for what a laser product should look like. Simple to use, exceptional cutting results, and great value for money. Alongside our industry leading aftercare and support package, we can now offer one of the most comprehensive CNC laser cutting solutions on the market today



Laser cutting like you've never seen before

The Swift-Laser Pro is engineered to last and built for precise, repeatable cutting every time. Its compact footprint with pull out cutting table allows for easy loading and unloading of material from several sides. The full enclosure and multiple viewing windows ensure complete safety whilst maintaining ease of use.



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Swift-Cut tables are ruggedly built, easy to use, have great accuracy and most importantly, give an excellent cut.

Alan Bradford, Plasmatech

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Main Key Features:

- Compact fully enclosed design with pull-out cutting table
- High-performance Max Photonics Elite fibre laser technology
- Raytools cutting head and controller
- Focus detection and auto focus positioning as standard
- Auto profile calibration and auto nozzle clean as standard
- Dual touch screen HMI allows seamless operation and control of the entire cutting process
- Anti-collision technology ensures smooth operations even in complex cutting scenarios
- EtherCAT controller
- Fully welded base and rigid gantry system
- 3kw, 6kw, and 12kw variants (12kw model features different design to one pictured)
- Class leading brand components
 - YYC rack and pinion
 - Hiwin linear guides
 - Yaskawa servo motor and driver
 - Gearko gearboxes
 - Lanny proportional valve

The Swift-Laser Pro comes in one size and three power levels



Swift-Laser Pro 3000 (SLP 510)

3050mm x 1525mm
cutting area (10' x 5')
3kw and 6kw variants



Swift-Laser Pro 3000 C (SLP 510C)

3050mm x 1525mm
cutting area (10' x 5')
12kw variant with pallet changer

Table Specifications

	Swift-Laser Pro 3000 (SLP 510)	Swift-Laser Pro 3000 C (SLP 510C)
Table Footprint	4970mm x 2228mm (16.3' x 7.3')	9370mm x 3440mm (30.7' x 11.3') (Includes light curtain)
Table Weight	5700kg (12600lbs)	7500kg (16534lbs)
Height	2430mm (8')	2685mm (8.8')
Floor Space Required	6000mm x 7000mm (19.6' x 23')	8500mm x 11000mm (27.8' x 36')
Cutting Envelope	3050mm x 1525mm (10' x 5')	
Z-Axis Travel	125mm (5")	
Drive Description	Powerful AC Servo motors on all axes	
Gantry Clearance	60mm (2 3/8")	
Maximum Material Thickness	25mm (1")*	30mm (1 3/16")**
Maximum Cut Capacity of Box Section	60mm (2 3/8")	
Fume Extraction Method	Zoned Downdraft	
Input Voltage	400VAC (80A)	
Input Air Pressure	15-25bar*** (220-365PSI)	
Flow Rate	1500LPM (53CFM)	
Linear Positional Accuracy	+/- 0.04mm/m (0.00048"/ft)	
Repeatability	0.03mm/m (0.00036"/ft)	
Ballbar Circularity	0.03mm/m (0.00036"/ft)	

*Max pierce for 6kw model. Not for production

**Max pierce for 12kw model. Not for production

***Pressures for air only cutting. Lower pressures required when cutting with N2 or O2

Complete CNC motion-control platform for high-speed laser cutting

Combining operator software, real-time motion control, machine I/O, height control and integration with the laser source and cutting head.

Main operating functions:

- Automatic and manual sheet-edge detection
- Automatic part sorting and toolpath generation
- Fly cutting - Laser rapidly toggles on and off or modulates power to maintain constant velocity avoiding stop-and-start cycles
- Lead-ins and lead-outs - Software automatically applies lead in/out for quicker programming
- Kerf/path compensation - Ensures exact part dimensions are maintained regardless of material type or thickness
- Micro-joints - Utilise this function to stop small parts from falling through the slats, shifting out of place, or crashing into the laser head
- Pre-piercing and multistage piercing - CNC executes every single piece point first which allows for more efficient cutting (less z-axis travel) and better heat dissipation
- Film-coated sheet cutting - Laser adjusts focus depth, gas pressure and speed to cut metal without ruining protective plastic coating
- Breakpoint recovery after an interruption - Allows the user to start from any position along the cut path whilst maintaining complete accuracy and reducing material waste
- Optimised corner cutting – reduces heat build-up for cleaner, sharper edges.
- Manual G-code editing - For fine tuning power and speed or adding custom actions and inserting specific commands
- Custom material profiles – test, optimise and save cutting settings for new or specialist materials, building your own process library over time.
- Alarm-log export and automatic calibration - Functions that improve ease of use, ensure fast diagnosis of issues, and preventing crashes and bad cuts
- Anti-collision technology - Detects and avoids collisions ensuring smooth operations even in complex cutting scenarios
- Visual representation with clear graphical feedback for full overview of the cutting process



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This has been a game changer for us.

Mark Depear, Allgrab Ltd

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Cutting Power Options

Max Production Pierce Capacity	Mild steel	Stainless steel	Aluminium	Galvenised steel	Brass
3kw	14mm	6mm	6mm	3mm	3mm
6kw	20mm	16mm	14mm	6mm	6mm
12kw	25mm	20mm	20mm	12mm	12mm



Air Spec

- Clean, dry air supply that should meet ISO 8573-1:2010
- Input air pressure - 15-25bar (220-365PSI)
- Flow rate – 1500 LPM (54 CFM)

Options

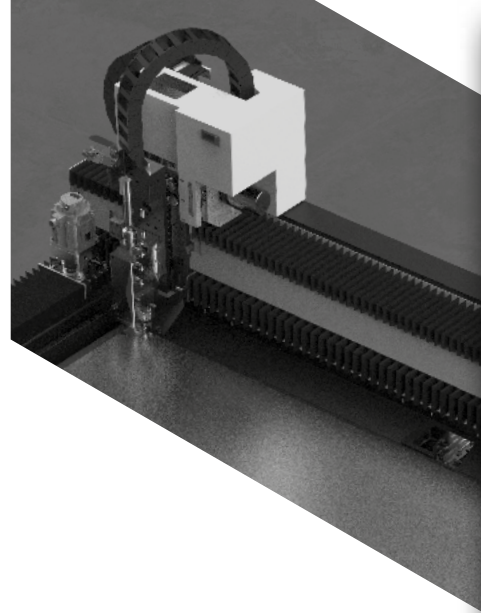
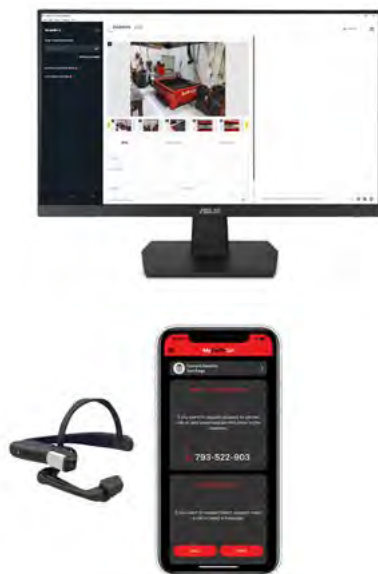
- Compressor options available
- Air dryer options available
- 3 stage compressed air filtration
- Filtered extraction options
- Consumable kit

Swift-Cut aftercare is second to none

We take as much pride in helping our customers after the sale as we do when we are making the sale, and every aspect of the user being able to get the absolute best from their Swift-Laser Pro has been thought about. Whether you need remote assistance, advice, or an engineer's visit, we will always make sure that you are getting the very best in aftercare.

There are a number of options to choose from when you come to decide how you wish to maintain your machine, and with over forty years combined experience in plasma, waterjet and laser cutting, we have great knowledge when it comes to cutting on many different grades and types of material.

To enable us to support and train our global customers and sales partners, Swift-Cut has invested heavily in technology that allows us to provide remote services by using Smartphone, Tablet and Wearable Technology via collaborative software tools to train, assist and diagnose the problem with precision and in less time. The My Swift-Cut app allows us to provide real-time video support which minimises time spent on the job and keeps machine downtime to a minimum.



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Swift-Cut has enabled us to diversify from our primary business into an area we would never have ventured into.

Leightec

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Swift-Cutter CNC family

Here at Swift-Cut we build long-standing relationships with our customers, with many buying multiple machines from us over time.

Once you buy a Swift-Cut table, you become part of our family, we'll share what you do and let you know what other Swift-Cutters are up to.

Our social media pages are an interactive platform where we hope our customers feel at home, or check out our Swift-Cutters Case Studies page on our website for more idea of what your fellow Swift-Cutters are up to and how they get the very best from their machines.



If you require any further help or information please visit swift-cut.com

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