




 ***profistop***
omicron

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ProfiStop Omicron is a heavy-duty solution for high-productivity cutting of heavy steel or timber. Run your heavy-materials production with precision and accuracy of a Swiss watch.

Simple to use | An intuitive, plug-and-play saw automation solution.

High accuracy | Advanced positioning control system with a lifetime accuracy guarantee.

High-value management | An effective cutting management solution, making cumbersome jobbing processes a breeze.

- Fully automated servo motor cut lengths measuring
- Simple to use high-accuracy heavy materials cutting
- Heavy duty 120+ kg recommended material weight
- Ideal for hardwood timber and structural steel
- Automated and streamlined jobs management
- Label printing and bar-code / QR jobs input (optional)
- Jobbing integration to your ERP system (optional)

Ideal For

- Structural steel and fabrication
- Frame and truss manufacture
- Agricultural manufacture
- Solid timber processing
- Retail material sales

Can be used with all your existing saws including:

- Band saws
- Industrial drop saws
- Guarded up-cut saws
- Radial arm saws
- Drills and presses



Your ProfiStop Omicron can come with one of our two user / data interface options:

Basic Software

Simple, num-pad style interface with enter-the-length and go-to-position functions. It is just a no-frills, simple-to-use machine which you can intuitively start to use in seconds. Suitable for use with your existing printed cut lists, where you get the benefit of automating the saw measuring but continue to manage all your production data the same way you do now.



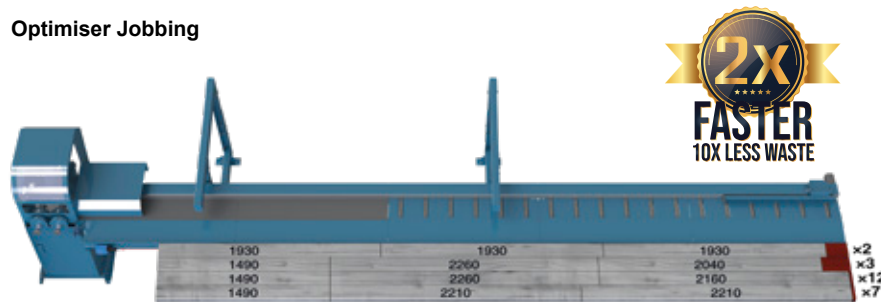
Optimiser Software

An advanced user and data interface designed for importing your cut lists remotely (over WIFI) and the machine optimising your cut lists for cutting so that the waste material of your production is minimal. Optimisation step being done at the machine is a key process improvement as it eliminates the need to make complicated layouts which your operator must follow in exact order. You can very easily optimise and cut any material you have lying around including your offcuts without needing to have any management system for them. For businesses who want to streamline their production using IT and advanced data functions.

ProfiStop Optimiser Jobbing

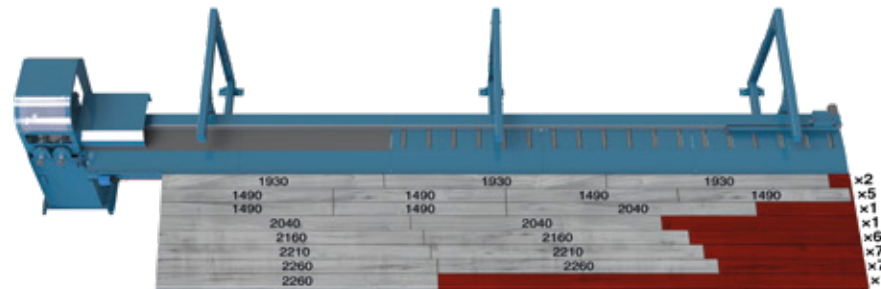
For every piece of material you place down to cut, no matter what length, a laser sensor can measure its length. Our powerful optimisation algorithm then takes your cut list and calculates the best order of parts to cut from this material so that wastage is minimised.

Optimiser Jobbing



- |||| Total Parts: 72
- Material required: 144 m
- Material waste: 2.1%
- 🕒 Cutting time: 22 mins

FIFO Jobbing



- |||| Total Parts: 72
- Material required: 180 m
- Material waste: 21.7%
- 🕒 Cutting time: 43 mins

Save \$\$

You spend a lot on material and chances are it is the biggest expense in your production. An optimiser run production will result in significant material cost savings in comparison to typical first-in cutting.

Powerful algorithm

Our inline optimiser with a cut list containing a mix of long and short parts will produce 99%+ yield most of the runs, even with cut lists containing not many individual parts.

Zero hassle optimisation

No need to run any optimiser from the office, print dozens of pages, or pay attention to putting the profiles in the "right" order. Just send the Excel cut list to the machine, and put in your material to cut, of any length, in any order.

Use up offcuts easily

No more measuring and recording your offcuts for the office. Just return them into stock, and put them through the machine at the start of the next job.

Get something for nothing

Your material typically comes with extra 20-60 mm on each length you buy. With inline optimiser, this will automatically be used up to produce your parts, and without you needing to do any extra work.

Optimise ad-hoc cut lists

Our system allows you to optimise both complex Excel-prepared cut lists, as well as ad-hoc cut lists you just think up, easily and quickly.

Signs You Need ProfiStop Automation

- Are you so busy you have to decline work?
- Do you have two, three or five saws in your production?
- Do you find parts don't fit right on-site?
- Is your best worker occupied with cutting?
- Do you have large, complex projects with strict delivery times?
- Are you constantly working in your production but projects still come together slow?
- Do you feel your production work is like doing chores?
- Do you have a junior employee tasked with cutting out parts from offcuts?
- Do you have many productivity ideas but no time to progress them?
- Are you burned out trying to juggle many things?
- Are you constantly busy, but struggling to progress profits?



Why ProfiStop Automation?



Exceptional ROI

Most users find that their automated ProfiStop® machines pay for themselves in under a year.



High accuracy and productivity

Our machines are high-productivity automation solutions for cutting, producing the parts you need consistently, and every time.



IT focussed production

In 2023 manufacturing is about data. Our machines are designed around IT and process solutions to supercharge your productivity far beyond mechanical automation.



Industry leading support

Our technical support is regularly rated the best in the business by our Customers. We are available to assist you no matter where in the World you are 24/7.



Unmatched expertise

We can assist you with any problem effectively and in minutes. Our IT and machine expertise is high because Engineers you speak to are the same people that design and build your machines.



Get more done, with less

ProfiStop automation is the key step in transformation of your production foundations from labour reliant, to productivity based.



Big picture focus

We make the World where your people produce like machines, without working like machines.

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We spent a significant amount of time investigating options for creating automated cutting where we could export cutting sheets from our BIM software. Most of the options fell short as far too complicated or too simplistic. That was until we found Profistop. It allows us to export cutting sheets direct to the machine, optimise the material, and create automatic labels. Profistop software productivity capabilities we were looking for were matched only by one other machine which was a \$350,000 CNC centre.

Darryn Parkinson
Managing Director
Eclipse Passive House NSW
AUSTRALIA



What are the Differences?

Hardware	ProfiStop Lazer	ProfiStop Alpha	ProfiStop Omicron
Duty Load	Light	Medium	Heavy
Recommended Material Weight	10 - 20 kg	20 - 40 kg	120 - 400 kg
Positioning Repeatability	±0.25 mm	±0.1 mm	±0.25 mm
Software	Basic	Optimiser	
Jog Left / Right	Yes	Yes	
Cuts Counting	Yes - Manual	Yes - Automatic	
Auto Adhesive Labels Printing	Yes - Optional	Yes - Optional	
Barcode Scan Jobs Input	Yes - OptiCut1D	Yes - OptiCut1D	
Pin Protected Setup	Yes	Yes	
Minimum Length Setup	Yes	Yes	
Machine Status Display	Yes	Yes	
Current Position Display	Yes	Yes	
Current Time Display	Yes	Yes	
Increment Feeding Left / Right (On Operator Press)	No	Yes	
Feeding Blade Kerf Compensation	No	Yes	
Multi-Machine Rapid Configuration Change	No	Yes	
Excel Job Lists Input	No	Yes	
Line or Bill-of-Material (BOM) Job Lists	No	Yes	
Drag-and-Drop or E-mail Job Lists	No	Yes	
On-Screen Edit, Delete, New Job Create	No	Yes	
Job Lists Optimisation	No	Yes	
Bundled Parts Counting and Quantity Optimisation	No	Yes	
Material Auto-Feeding (On Manual Press)	No	Yes	
Part Finished / Next Part Alert	No	Yes	
Blade Change Alert	No	Yes	
Safety Switch Motion Disable	No	Yes	



ProfiStop Omicron | Technical Specifications

Length (m)	2	4	6	8	10	12	14
Stroke (mm)	1568	3568	5568	7568	9568	11568	13568
Dimensions (mm)	2000×1575×1190	4000×1575×1190	6000×1575×1190	8000×1575×1190	10000×1575×1190	12000×1575×1190	14000×1575×1190
Table Height (mm)	760-1050	760-1050	760-1050	760-1050	760-1050	760-1050	760-1050
Weight (kg, incl. table)	220	363	506	649	792	935	1078
Table Width (mm)	500	500	500	500	500	500	500
Roller Width (mm)	450	450	450	450	450	450	450
Speed (mm/s)	200	200	200	200	200	200	200
Acceleration (mm/s ²)	1000	1000	1000	1000	1000	1000	1000
Deceleration (mm/s ²)	1250	1250	1250	1250	1250	1250	1250
Job Memory	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+	10,000+
Recommended Material Weight (kg)	120-400	120-400	120-400	120-400	120-400	120-400	120-400
Attachment Mount	Fixed-type						
Drive	Belt, 30 mm, steel rack and pinion, module 2						
Power input	110 - 240VAC, 10A max						
Positioning Repeatability	±0.3 mm active closed-loop positioning control						
Certifications	CE FCC						
Country of Manufacture	AUSTRALIA and SERBIA						