profifeed technologies

A550
Fully Automatic Aluminium Saw

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ProfiFeed Technologies, founded in 2015, is a Euro-Australian industrial technology business with focus on **software-imagined circular saw automation**.

With products in 100+ countries around the World, we design and make both simple and high-performance cutting automation **solutions to supercharge your production**, whether you are a one-person business or a large manufacturing enterprise.

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SERBIA

- CE machine design with high safety
- EUR1 free trade certificate on all products
- Made in Serbia - Worldwide Distribution

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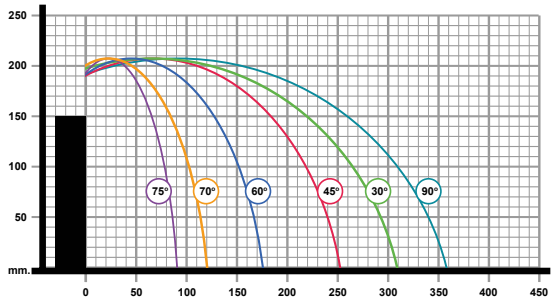
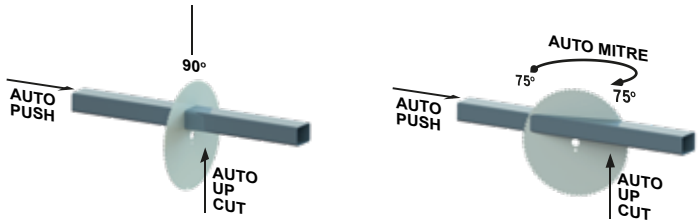
Simple Fully Automated Cutting

Fully automatic cutting of medium-large aluminium profiles with simple-to-use automation. Put down any aluminium profile, the machine will automatically detect it and cut it into jobs tasked with high-accuracy servo motor material positioning. Excel job lists WIFI input for streamlined input of large cutting lists.

Optional fully automatic inline optimiser. Automatic measuring of aluminium profile lengths using a laser sensor and on-the-fly job list optimisation against the length measured for minimised wastage in offcuts. Automatic printing of job / part number labels for each part produced (optional).





- Fully-automatic cutting operation with bar feeding and cutting to length.
- Simple user interface for automatic operation, enter job and cut in seconds.
- Simplified part, batch, or large excel lists job cutting.
- Bundled / multi-bar cutting and counting.
- Remote WIFI excel job lists input with extensive data mapping capabilities.
- Fully adjustable saw cutting and aluminium feeding rates for maximum process productivity.
- Automatic optimiser mode with aluminium laser length measure and optimisation for minimum waste (optional).
- Automatic labels printing for parts using data from the job list (manual label application, optional).
- Inline direct-to-material printing with no operator action required (optional).
- Bar codes or QR codes printing or scanning for jobs input (optional).
- Automated servo positioning of the saw mitre angle up to ±75° (optional).

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Safety-Focussed Design

Machine design as per CE safety standard. Full saw guarding, including 1.8 m tunnels, with automated lifting of the guard up / down with a press of a button. Safety switch detecting the guard in the up position and disabling all machine operation.

Category 1 control / monitoring of the machine safety systems with a safety relay, suitable for light curtain integration. Mushroom and rope-pull emergency stops with a reset button press to re-enable the machine after e-stop.

415V 3-phase, 15A max	4 kW	2900 RPM	550 / 30 mm	83 m/s

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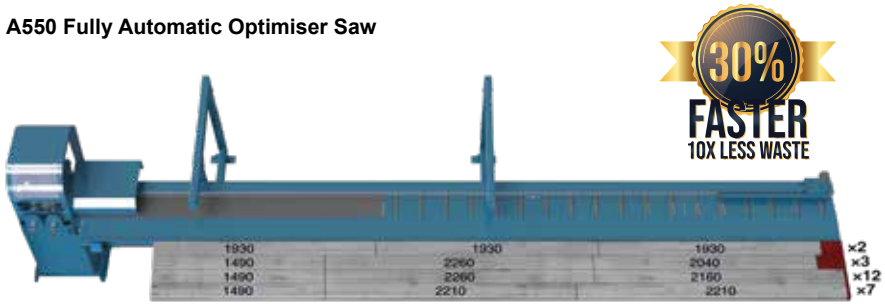
Inline Optimiser Saw

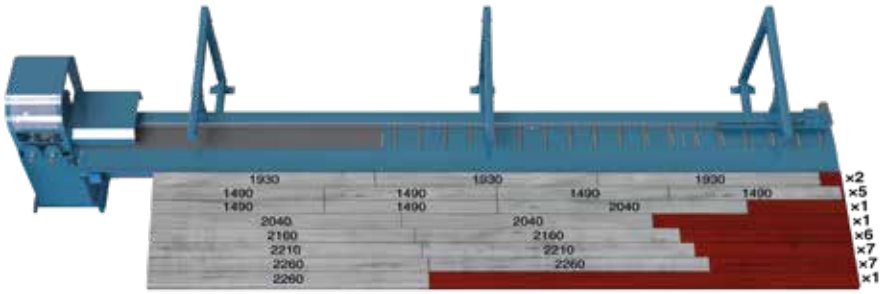
Your fully automatic saw can optionally come as an inline optimiser saw. For every piece of aluminium you place down to cut, no matter what length, a laser sensor will measure its length. Our powerful optimisation algorhithm then takes your cut list and calculates the best order of parts to cut from this material so that wastage is minimised. All of this happens on-the-fly, during the machine operation process, and without needing any input from you.

A550 Fully Automatic Optimiser Saw



- Total Parts: 72
- Aluminium required: 144 m
- Aluminium waste: 2.1%
- Cutting time: 26 mins

A550 Fully Automatic Saw with FIFO Jobbing



- Total Parts: 72
- Aluminium required: 180 m
- Aluminium waste: 21.7%
- Cutting time: 35 mins

Save $$

You spend a lot on aluminium profiles 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 aluminium 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.

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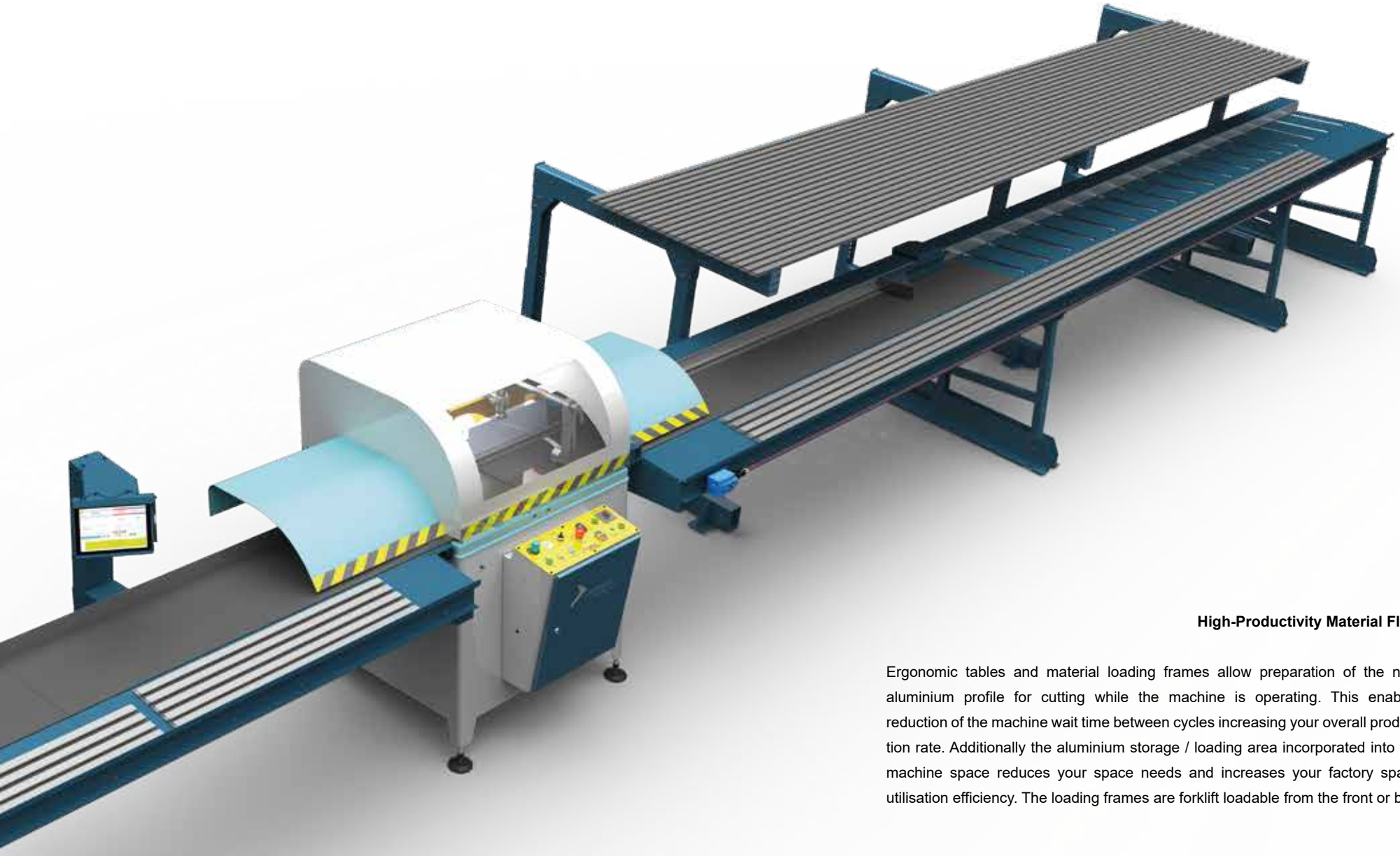

High-Productivity Material Flow

Ergonomic tables and material loading frames allow preparation of the next aluminium profile for cutting while the machine is operating. This enables reduction of the machine wait time between cycles increasing your overall production rate. Additionally the aluminium storage / loading area incorporated into the machine space reduces your space needs and increases your factory space utilisation efficiency. The loading frames are forklift loadable from the front or back.

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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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One of the key benefits of our ProfiFeed auto-mitre saw was an impressive increase in production speed of angled parts compared to our previous manual process. We needed two saw angle adjustments, a length measurement, plus two saw cuts, to produce just one part with ±45° profile. The machine actions all of this angled cutting non-stop and automatically, significantly reducing both our time per part produced, and also instances of incorrectly produced parts. Our investment into ProfiFeed saw proved to be a true technological transformation for our production.

Marko Popadić
Research and Development Engineer
BUCK Lighting
SERBIA

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A550 Fully Automatic Aluminium Saw | Technical Specifications

Linear Unit	**ProfiStop Alpha**					**ProfiStop Omicron**				
Linear Unit Length	3	4.5	6	7.5	9	4	6	8	10	12
Max Material Length (m)	1.68	3.18	4.68	6.18	8.58	3.23	5.23	7.23	9.23	11.23
Recommended Processing Material Weight (kg)	20 - 40[1]					60 - 120[2]				
Typical Processing Rate (linear m per day)	2367 - 4019[3]					2469 - 4320[3]				
Footprint (3m out-feed table) (m)	7.25×1.7	8.75×1.7	10.25×1.7	11.75×1.7	13.25×1.7	7.79×1.6	9.79×1.6	11.79×1.6	13.79×1.6	15.79×1.6
Table Width (mm)	520	520	520	520	520	520	520	520	520	520
Roller Width	220 mm					220 mm				
Head Max Speed	1.2 m/s					1.3 m/s				
Head Acceleration	1.65 m/s^2					1.8 m/s^2				
Head Deceleration	1.35 m/s^2					1.5 m/s^2				
Job Memory	10,000+					10,000+				
Drive	belt, 30 mm, steel reinforced					rack-and-pinion				
Power input	415VAC 3-phase 20A max					415VAC 3-phase 20A max				
Positioning Accuracy	±0.1 mm @ 20 kg load / ±0.3 mm @ 40 kg load / ±1 mm @ 80 kg load					±0.25 mm				
Certifications	CE FCC					CE FCC				
Country of Manufacture	AUSTRALIA and SERBIA									

1. Material processing weight is dependent on the table configuration. Maximum processing material weight possible 80kg+ with reduced speed and positioning accuracy performance.
2. Maximum processing material weight possible 450kg+ with reduced speed performance. Max processing weight is dependent on configuration of table and drive gearing.
3. Processing rate expressed is for the speed of machine operation only. It does not include time required to unload completed parts and input new material in the machine for processing which always require additional time. The achieved processing rate will be dependent on how quickly the machine is serviced with material.