

THE TECHNOLOGY ISSUE

YOU CAN'T ALWAYS BELIEVE WHAT YOU HEAR...

Unfortunately, there are some that have been led to believe that there is an incompatibility issue between Razer systems and certain nail plate suppliers. For the record, this simply isn't the case! At Vekta we have never seen a compatibility issue with any nail plate supplier – with saws operating in the US and Canada for over 14 years. We also support a number of file formats, including several standard formats in our industry used by several other saws. What is more, we are actively supporting the SBCA committee tasked with trying to develop an industry standard file format. Don't let bad information lead you to a bad decision. Give us a call to discuss any concerns you might have. We'll set you straight– and we guarantee it!



WHICH VEKTA RAZER SOLUTION SUITS YOU?

At Vekta, we understand that you want to make the right choice when looking to invest in a new Linear Saw and are commonly asked what the difference between our V5 and S5 Razer saws is.

While Vekta works closely with all nail plate suppliers to ensure their files are read by our 'Simple' software, there are a few key differences between the V5 and S5 Razer saws. Basically, the V5 is the full-featured version of the Razer saw and is designed to have maximum flexibility and capability. The V5 can perform trench cuts, drilling, miter cuts at various angles, courtesy cuts, zero-overcut birdsmouth cuts and several other functions. However we recognize that not all truss plants require these abilities, hence the development of the S5 saw. The S5 suits a plant that primarily cuts common roof truss components and perhaps basic, non-raking wall frames. By replacing some of the servo-driven movements on the V5 with pneumatic actuators, and replacing the V5's hydraulic motor with a high-density servo motor for the saw blade itself, the S5 saw is better suited to many truss plants and is about 25% less expensive than the V5 Razer. You should only have to pay for what your plant needs!

YOU WANT / NEED

- > Want the ability to trench
- > Often cut birdsmouth cuts
- > Cutting a lot of wall panels, including raking panels

V5

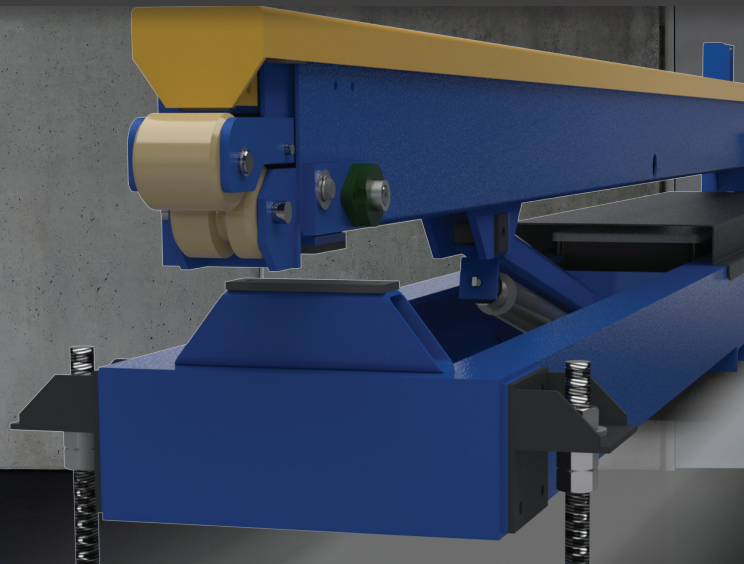
- > Mainly interested in truss cutting
- > Only require 45 deg miter cuts

S5

- > Small footprint
- > Stack Cutting
- > Ultimate safety
- > High productivity
- > Optimization
- > Easy to operate
- > Customized to suit your needs, budget and layout

BOTH

TRUSS AND FRAME STACKING: IT JUST MAKES SENSE!



In 2016 Vekta announced the addition of the Stakpro systems to our product line. The Stakpro systems were originally designed and manufactured by an Australian Company- Trussquip, who have now closed their doors due to the owner's retirement.

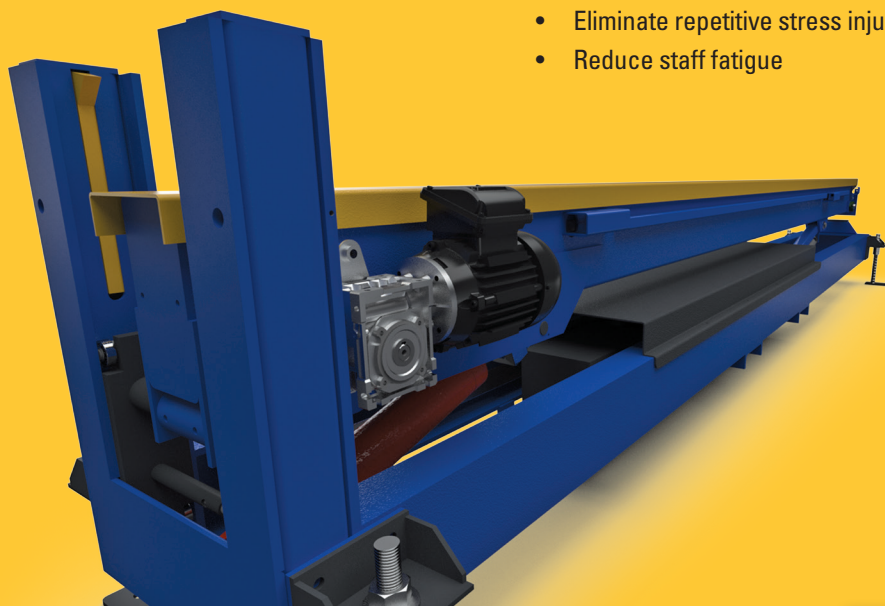
The Stakpro comes in two different versions – one for Trusses and one for Frames. They are an ejection and stacking system which allows one operator to safely stack any size truss or frame. The truss version can be fitted to regular pedestal jigs or roller conveyors lines, while the frame version is placed at the end of a framing line.

The benefits of the Stakpro are very easy to see:

- Eliminate the risk of manual handling injuries
- Fast and efficient – one person can stack even the largest trusses
- Eliminate repetitive stress injuries
- Reduce staff fatigue

Health and safety is at the forefront of everyone's mind and getting a team of workers together to manually lift a large, awkward truss is dangerous on so many levels. What happens if someone trips? How much is each person lifting and how are they lifting the load? On top of this, consider the fact that there are now two, three, or even four workers not actually building trusses and frames. Instead, they are awkwardly handling each and every unit that comes out of your factory. Try adding up the time (money) spent manually handling the finished product – you might be surprised!

The Stakpro product line is a cost-effective way to both reduce risk of injury and to improve the efficiency and productivity of your plant. One operator does the job of many with the simple use of a remote control – and he does it faster! If you are interested in finding out more about the Stakpro visit our website vektausa.com/stakpro or give us a call.



**Eliminate
the risk of
handling
injuries**

**Eliminate
repetitive
stress
injuries**



OUR CORE VALUES

From engineering and design to the manufacturing of products and building relationships, Vekta upholds these core values.

SAFETY

IT'S TOP OF OUR LIST

From design to engineering, manufacturing, install and training - safety supersedes everything at Vekta.

EXCELLENCE

OUR PRODUCTS LEAD THE WAY

At Vekta, we are continuously striving for excellence in our engineering, manufacturing, software and customer relations

TECHNOLOGY

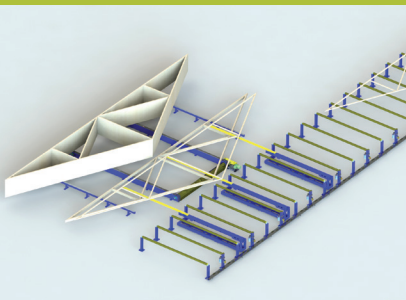
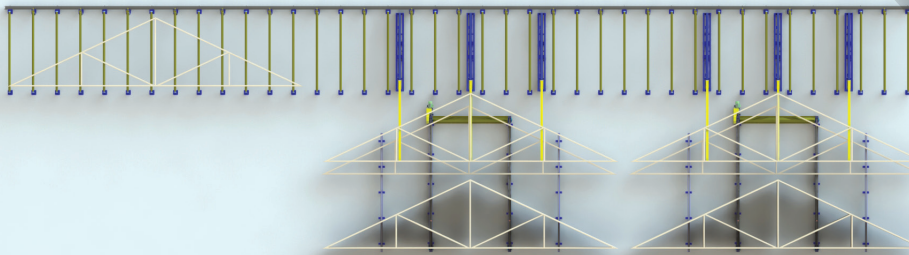
WE'RE ALWAYS INNOVATING

Vekta is highly adaptable and we pride ourselves on providing innovative technological solutions that are customized for each individual business and their unique needs.

CUSTOMER FOCUS

WE'VE GOT YOU COVERED

From buying, installation, training and technical support Vekta focuses on the customer- their needs, their requirements, their satisfaction.



The Smart Roller and Truss Transfer are able to seamlessly integrate with the Stakpro Truss system



OUR NEW WAYS TO AUTOMATE: INTRODUCING THE SMART ROLLER AND TRUSS TRANSFER SYSTEMS!

The Vekta team is excited to announce the introduction of TWO new products! The 'Smart Roller' line and the 'Truss Transfer' system have been developed in response to the growing need from truss and frame manufacturers to increase efficiency and safety through automation. Both of these products have been designed to compliment Vekta's Stakpro Truss system and provide a more complete and streamlined solution to handling finished trusses with minimal human intervention. The Smart Roller and Truss Transfer are able to seamlessly integrate with the Stakpro Truss system, with all operated using a single handheld pennant.

The Smart Roller system is a roller line with added intelligence. Whether a plant requires one or two stacking stations, the Smart Roller will automatically move trusses into

position over the Stakpro booms of the Operators choice. If needed, the 'inch' buttons on the handheld pennant can then be used by the operator to perfect the trusses positioning. The Smart Roller system includes a programmable control system that will allow the behavior of the line to be customized to suit your specific needs.

The Truss Transfers are used at stacking locations to enable a stack of trusses to be moved quickly, therefore allowing a new stack of trusses to be started before the first stack is strapped and lifted away. These heavy duty transfers are designed to take a beating, while they are conveniently operated with the same handheld pendant as the Stakpro Truss and Smart Roller systems.

If you would like to find out how these products can increase efficiency and safety for your plant, contact us now.

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VEKTA
ADVANCED AUTOMATION

OPTIMIZING CHAOS

Job: CW 2017 Truss: P233 Member: TPL036 (1 of 1) Length: 18-0-0 Material: 1.5x5.5 2&B KDH

Top: 3-10-15
Centre: 3-10-15
Bottom: 3-10-15

0-0-0 C=90.0°

* Stack	Material	Length	Bin	Job	Truss	Member	Type	Length	Waste
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P206	TPLO08	TPL	18-0-0	0-0-0
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P206	BPL006	BPL	18-0-0	0-0-0
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P212	TPLO15	TPL	16-0-0	1-11-13
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P212	BPL015	BPL	16-0-0	1-11-13
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P233	BPL034	BPL	3-11-0	0-0-11
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P210	TPLO13	TPL	14-0-0	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P233	TPLO36	TPL	3-11-0	0-0-11
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P210	BPL013	BPL	14-0-0	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P230	BPL031	BPL	4-8-4	0-5-3
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P204	TPLO06	TPL	12-10-4	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P230	TPLO33	TPL	4-8-4	0-5-3
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P204	BPL004	BPL	12-10-4	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P231	BPL032	BPL	5-1-12	0-1-7
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P215	TPLO18	TPL	12-8-8	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P231	TPLO34	TPL	5-1-12	0-1-7
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P215	BPL017	BPL	12-8-8	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P226	BPL027	BPL	3-8-0	2-3-11
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P208	BPL008	BPL	12-0-0	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P226	TPLO29	TPL	3-8-0	2-3-11
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P208	TPLO10	TPL	12-0-0	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P208	BPL009	BPL	6-3-0	0-0-3
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P201	TPLO01	TPL	11-8-8	
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P202	TPLO04	TPL	6-0-0	0-3-3
	1.5x5.5 2&B KDH	18-0-0	0	CW 2017	P201	BPL001	BPL	11-8-8	

Ed Serrano discusses the different viewpoints truss and frame plants may take on optimization.

Optimization... In general, most plants want to mix up the cutting list, while still controlling the order that the members cut by the saw. This allows some gains in waste/cost to be had by combining members but still allows the cut components to be stacked easily according to truss once they come out of the saw. Interestingly, over the past few years I have seen a number of plants starting to re-think this approach. Some plants are starting to say forget about the order of the components coming out of the saw – let's give the saw full rein and let it come up with the very best solution possible! The approach might sound half-baked at first but there are some compelling justifications behind the strategy.

First, if we look at the more traditional approach, plants tend to mix and match components but more or less want the components to come out truss by truss. In most cases, our customers will let the system optimize, and hence cut, a few trusses at a time to reduce waste and/or cost but they are essentially controlling the order in which the members come out of the saw. This means that stacking the cut components on trolleys is relatively straight forward but the restrictions placed on the optimization to maintain the order naturally prevents the best possible solution from being realized. It also means that the order of the raw timber being fed into the saw will tend to be random. The argument for this approach is that it's much easier to load timber onto the infeed in a random order than it is to stack cut components by truss on trolleys when they are coming out of a saw fast and in a random order. Fair enough!

But the flip side of this is that timber cost is a substantial portion of the total cost of the truss – significantly outweighing labor costs, or so I'm told. If a random (or at the very least a highly relaxed) order of

cut components could be handled with little, if any, additional labor costs, then why not – but how? Well, one approach is to stack the components based on member type – not truss. Taking this further, a truss build order number might be printed on each member – i.e. which trusses are to be built first, second, third, etc. In this case, the operator simply stacks all like members in a certain location (for example on a tree-trolley) and in the order specified by the build number.

Another approach I've seen is to use additional outfeed kickoffs to help sort the members coming out – certain trusses and/or member types go to certain kickoff locations. This might not seem like a viable option for most plants, but there are many different ways of achieving a multi-kickoff system without necessarily taking up more space.. As an added advantage, once you give up trying to sort out the outfeed side of the saw, you can instil order on the infeed without sacrificing waste/cost – cutting all sticks of timber that are of the same grade and length at once for example. This makes loading the infeed even easier – which, of course, means savings in labor.

Which method is right for you – I can't answer that but there are enough plants thinking outside the box with this one that I thought a brief discussion might be warranted. There are usually compromises involved in most optimizing approaches but with a little creative thinking, almost anything is possible!



Ed Serrano is the Managing Director of Vekta Automation. Ed is a mechatronic (robotical) engineer with more than 12 years of experience with the Prefabricated Truss and Frame industry, all of which has involved the Razer linear saw and other forms of automation. With a solid understanding of the conditions and needs of truss plants, he has helped many plants overcome machinery obstacles and has been instrumental to the success of the Razer saws.