

GlideAway

Automated Truss Production System



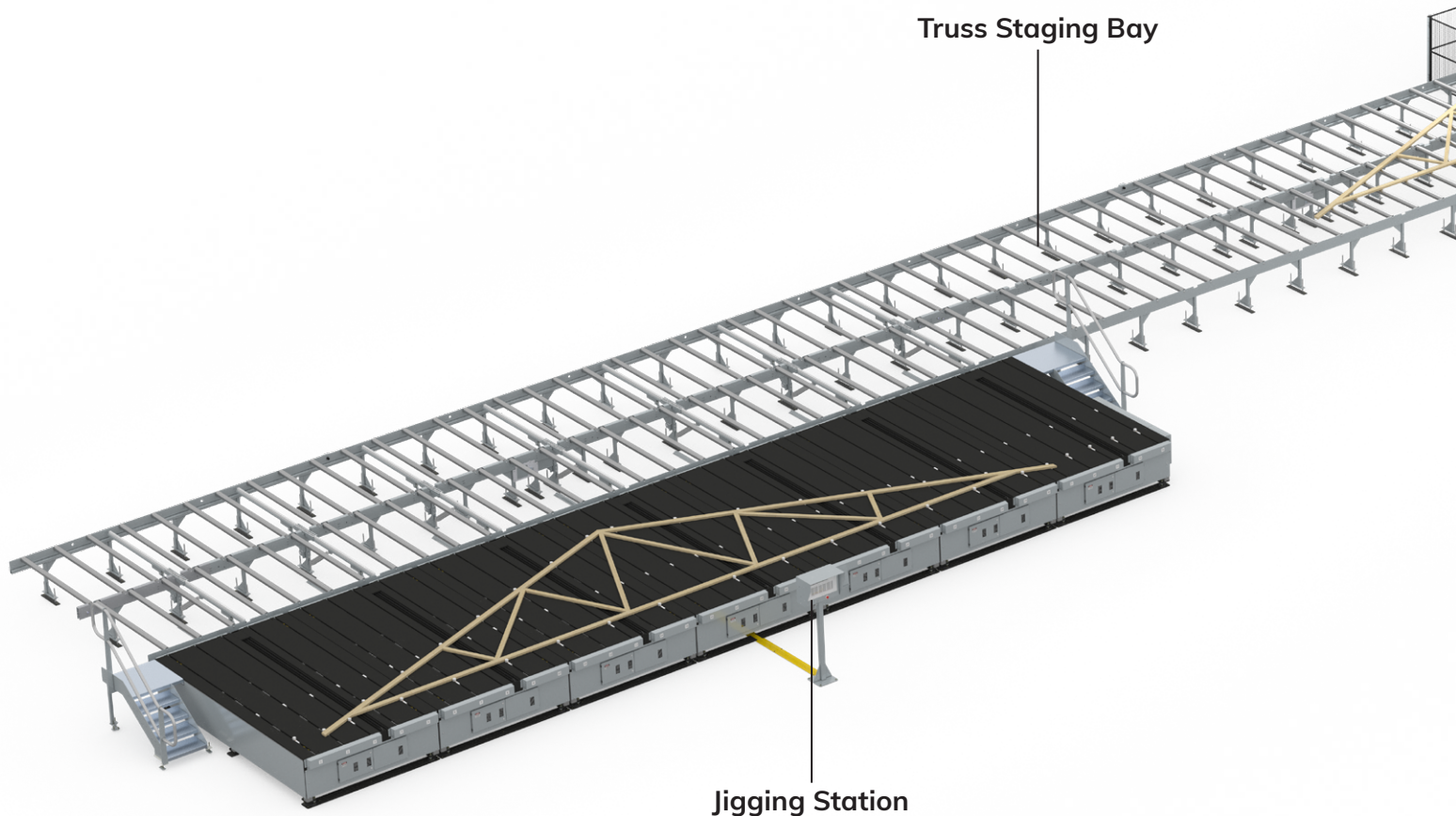
The Future of Truss Production

The GlideAway is a fully automated nailplate positioning and pressing machine designed for the production of prefabricated trusses. Its intelligent design eliminates the manual process of nailplate placement and pressing during truss assembly, freeing up operator time and delivering significant efficiency gains.

How It Works

Trusses are first jigged and stapled on the jigging station, then ejected and transferred via conveyor rollers to the GlideAway press head.

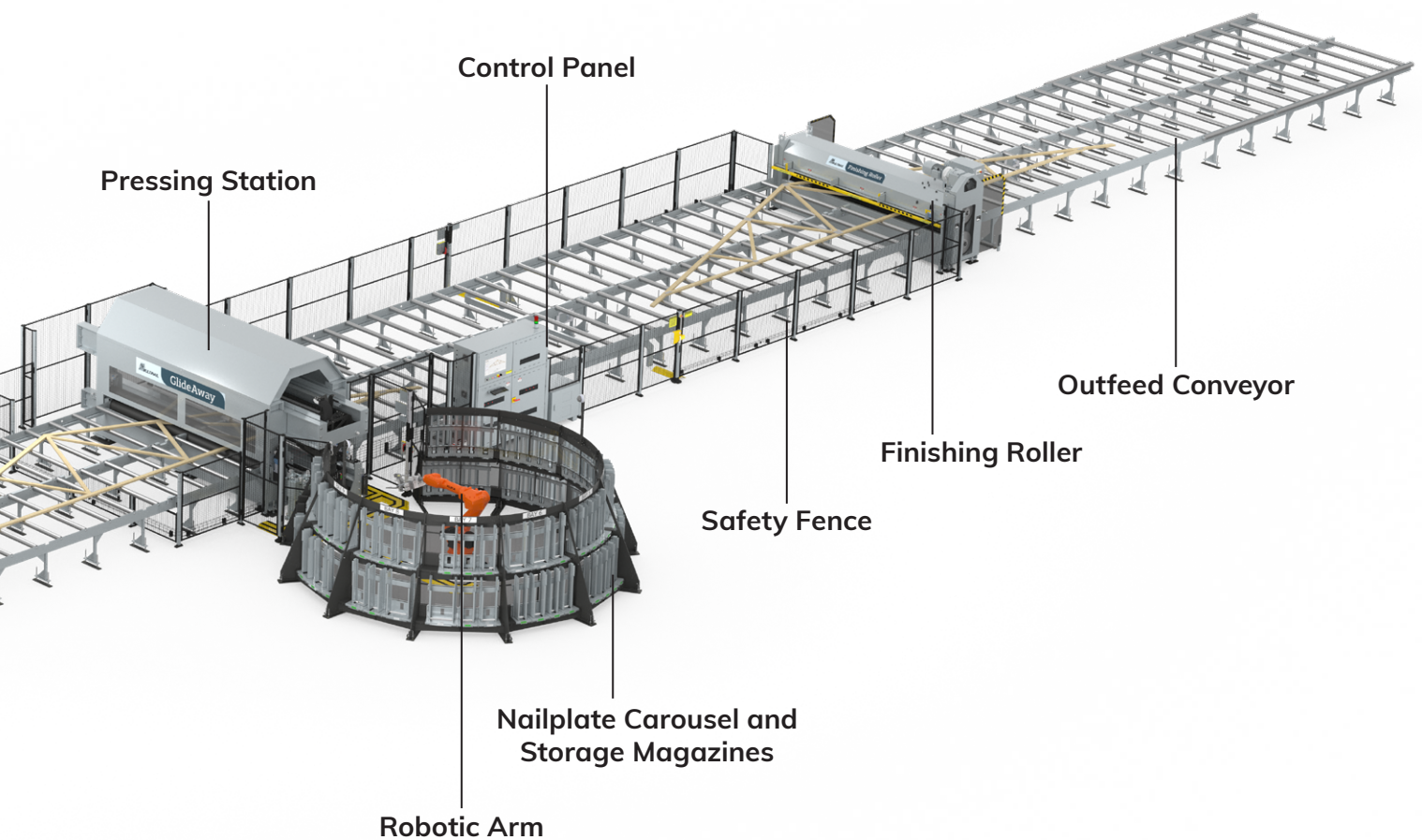
The robot selects the correct nailplate for the joint of the truss and places it in position (correct location and orientation) on the press head. The head presses nailplates in place and continues the same process for all joints of the truss. Once completed, the truss is transported to the Finishing Roller for final engagement of the nailplates.



Cover photo: GlideAway installed at CQ, Maryborough, QLD.

Robot
GoPro Action





Key Benefits:

- Automated jigging system
- Fully automated nailplate positioning and pressing
- Increased efficiency and productivity
- Reliable and consistent nailplate placement
- Reduced OH&S risks for staff
- Handles a wide range of truss types and plate sizes
- Designed for continuous, uninterrupted production
- Seamless integration with truss stacking equipment
- Scalable and configurable to suit many factory layouts

Features & Options

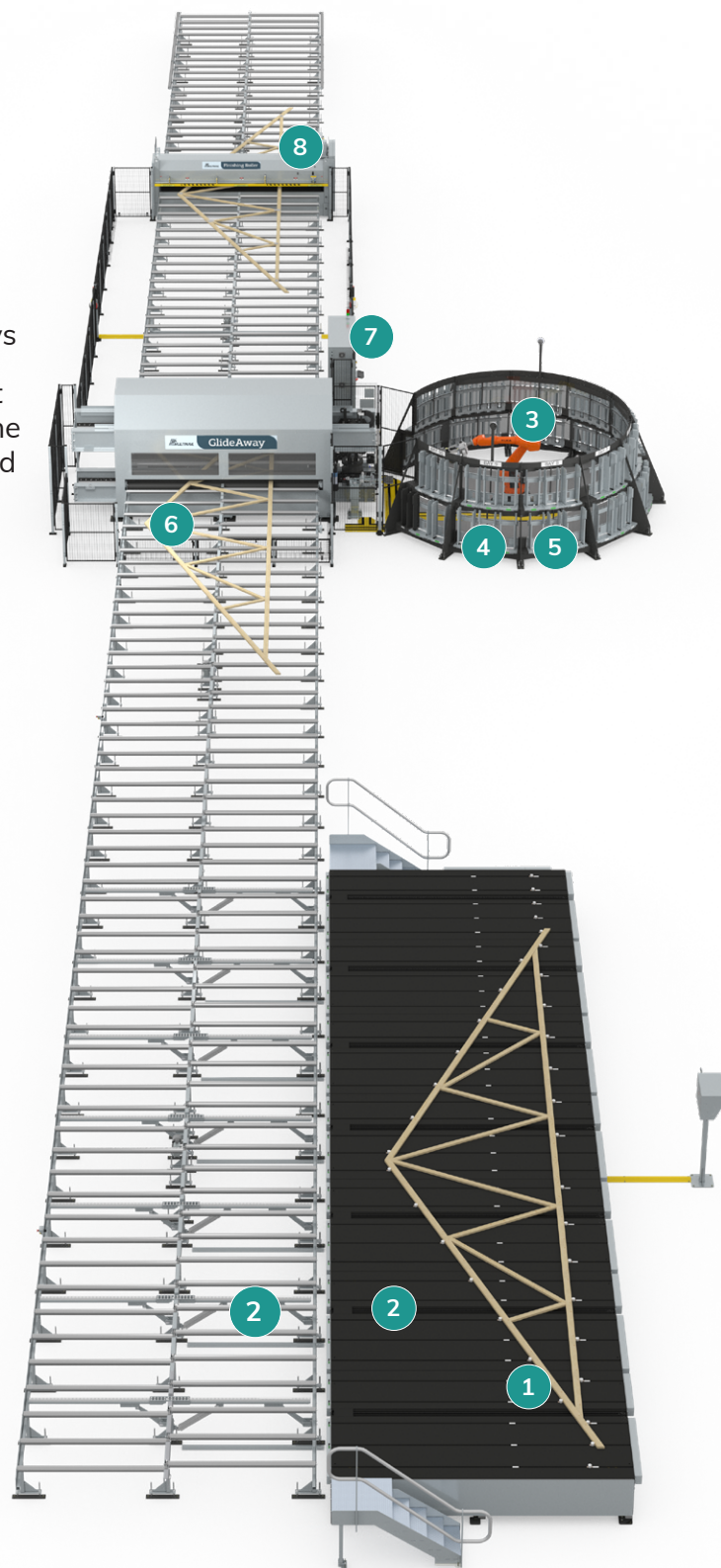
The GlideAway allows for customisation including the number of tables and truss staging bays. These specifications are for a GlideAway with 7 tables and a single truss staging bay

Features

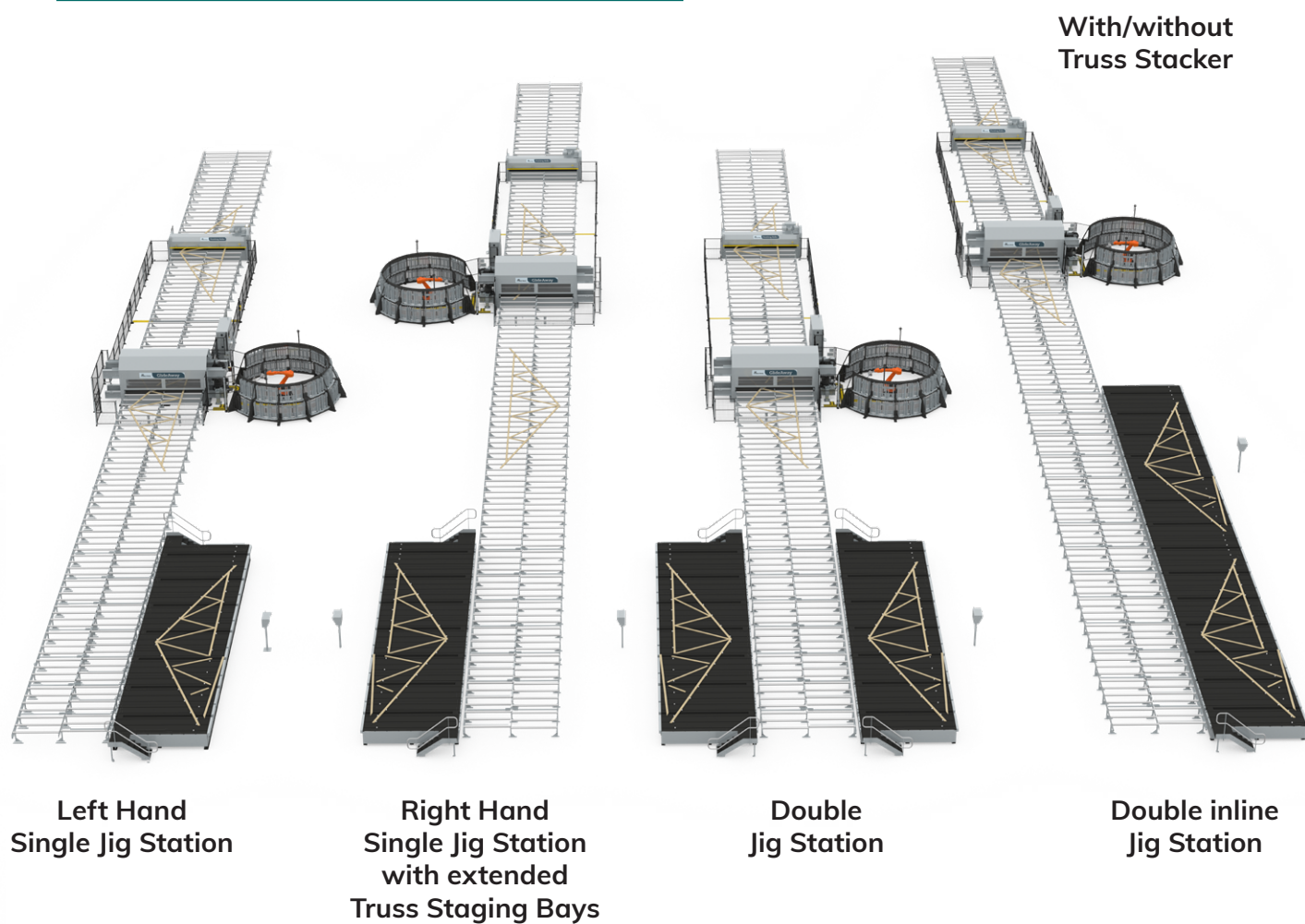
- 1 Bolt on truss jigging included:
 - Jigging bobbins (2 per table)
 - Adjustable heel jigs (2 per operator station)
 - Apex jig (1 per operator station)
 - Vertical upright jig (1 per operator station)
 - Magnetic Stops (4 per operator station)
- 2 Horizontal powered ejection system/transfer rollers - automatically transfers trusses from tables to transfer rollers then onto staging bays
- 3 Integrated robotic automation - selects correct nailplate & transfers to press head ready for the required joint and places in correct location and orientation
- 4 Handles a wide range of standard industry nailplates
- 5 Optimised chute layout
- 6 Capable of handling most common truss configurations
- 7 Compatible with wide range of standard industry data exports
- 8 Finishing Roller

Options

- Jig station configurations:
 - Single left or right jig stations
 - Double jig stations
 - Double inline jig stations
 - Extended truss staging bays and outfeed can be added to all configurations
- Laser projection
- Automated jigging
- Robot positioning - left or right side of the machine
- One or multiple operator stations for automated jigging
- Roof Truss Horizontal Stacker

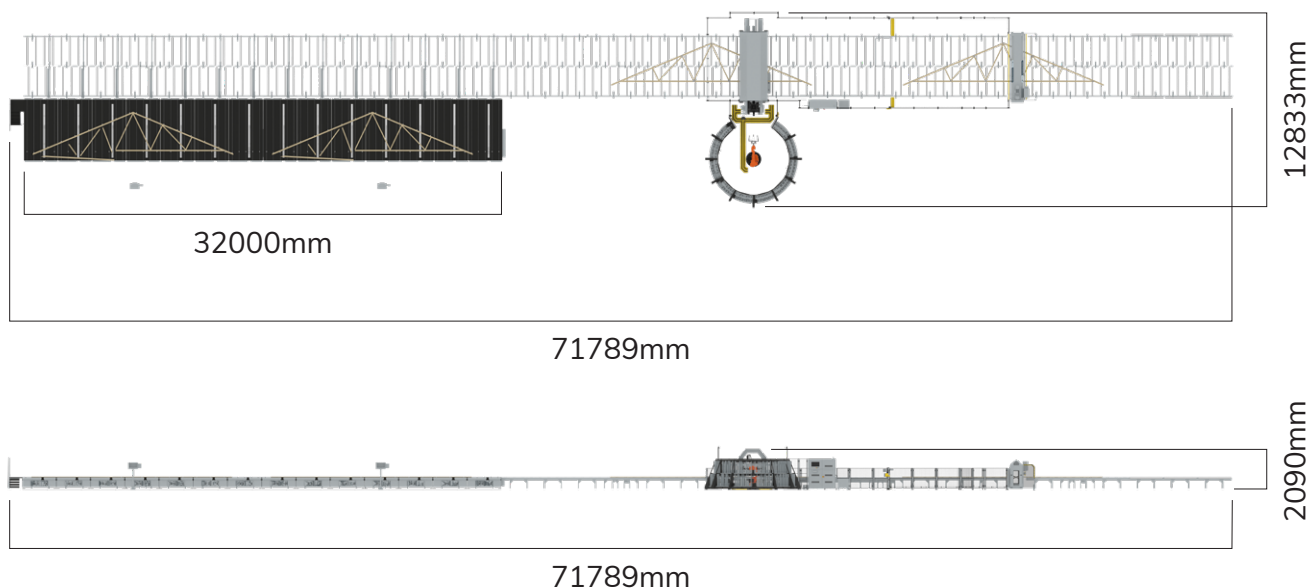


Layout Configurations



* The available options and configurations are not limited to these examples, layout configurations can be customised to suit your factory layout and production requirements.

Footprint



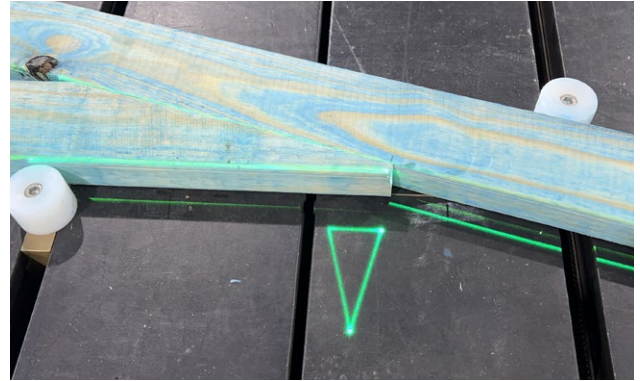
Automated Bobbins

Operators place the timber onto the jiggging station, which positions it precisely using automated bobbins.



Laser Projection

Optional overhead lasers can be added to increase production speed and accuracy.



Nailplate Carousel

A modular carousel holding up to 4,690 pairs of nailplates. Operators can refill chutes without stopping production, supported by remote-view cameras.



Robotic Arm

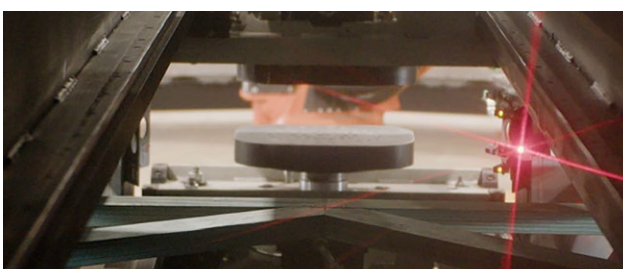
The robotic plate feeder selects and orients the nailplates ready for pressing.



Pressing Station

The press heads move to each joint and automatically apply the nailplates.

The integrated camera checks joint accuracy and performs real-time quality assurance.



Finishing Roller

The completed truss travels through the Finishing Roller for final engagement of nailplates.





Specifications

The GlideAway allows for customisation including the number of tables and truss staging bays. These specifications are for a GlideAway with 7 tables and a single truss staging bay.

Overall length, width, height	65121 x 12833 x 2635mm
Max automated puck opening	3680mm
Table height	4000mm
Max truss length	15750mm
Timber thickness	35 or 45mm
Min/Max nailplate	50 x 100mm widest 175 x 400mm or tallest 200 x 200mm
Working height	802mm
Machine mass	60000kg
Electrical requirement:	
Carousel & head & bay rollers	400V 80A 3Ph + Neutral & Earth
Tables	400V 63A 3Ph + Neutral & Earth

* Specifications shown reflect a typical configuration. Machine design, layout and features may vary depending on final configuration and customer requirements. Details will be confirmed at the time of order.

Options

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- Roof Truss Horizontal Stacker

Overview

The GlideAway is a fully automated nailplate positioning and pressing machine used in the production of prefabricated trusses. Trusses are jigged and stapled on steel tables before the horizontal powered ejection system moves them onto the transfer rollers and into the staging bay, ready for processing through the press head.

The robot selects the correct nailplate for the joint of the truss and places it in position (correct location and orientation) on the press head. The head presses nailplates in place and continues the same process for all joints of the truss. Once completed, the truss is transported to the Finishing Roller for final embedment of the nailplates.

The GlideAway's intelligent design removes the manual process of nailplate placement in truss assembly, freeing up operators' time and automating this for efficiency and quality gains.

Features

- Bolt on truss jigging included:
 - Jigging bobbins (2 per table)
 - Adjustable heel jigs (2 per operator station)
 - Apex jig (1 per operator station)
 - Vertical upright jig (1 per operator station)
 - Magnetic Stops (4 per operator station)
- Horizontal powered ejection system/transfer rollers - automatically transfers trusses from tables to transfer rollers then onto staging bays
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- Compatible with wide range of standard industry data exports
- Finishing Roller

See more



Scan the QR codes to explore more

One Touch System
in Action



CQ
Case Study

Robot
GoPro Action



The 7-year evolution
of the GlideAway



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