

# Roof & Floor Truss Assembly





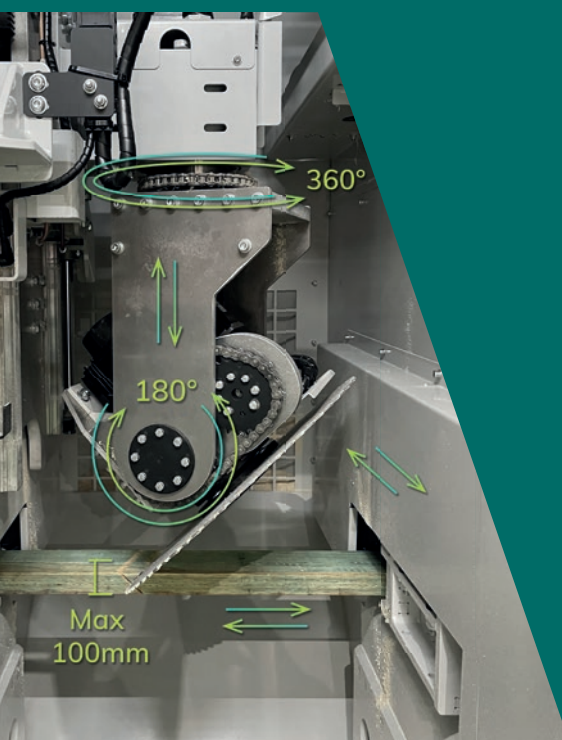
# World Class Machinery

Multinail is a world leading operation with over four decades of proven performance in the design and manufacture of precision quality machinery and systems for frame and truss manufacturing throughout Australia, New Zealand and USA.

From the very beginning, Multinail has been on a future focused trajectory building a progressive organisation with a visionary focus of being the only company to provide the timber prefabrication industry with an entire solution of Australian made machinery, software, engineering and structural building products.

We are in a fast moving global industry and Multinail is determined to keep pace with its worldwide rivals acquiring two specialist machinery companies in USA and New Zealand. Although these subsidiary companies operate under the Spida brand, they are an integral part of the Multinail group with constant involvement in the advancement of robotic automation and machinery design at Multinail in Australia.

This international combination of engineering and software expertise provides Australian fabricators with the most innovative and technically advanced machinery for every aspect of frame, roof and floor truss manufacture.



 **MULTINAIL**  
Personalised. Local. Progressive.

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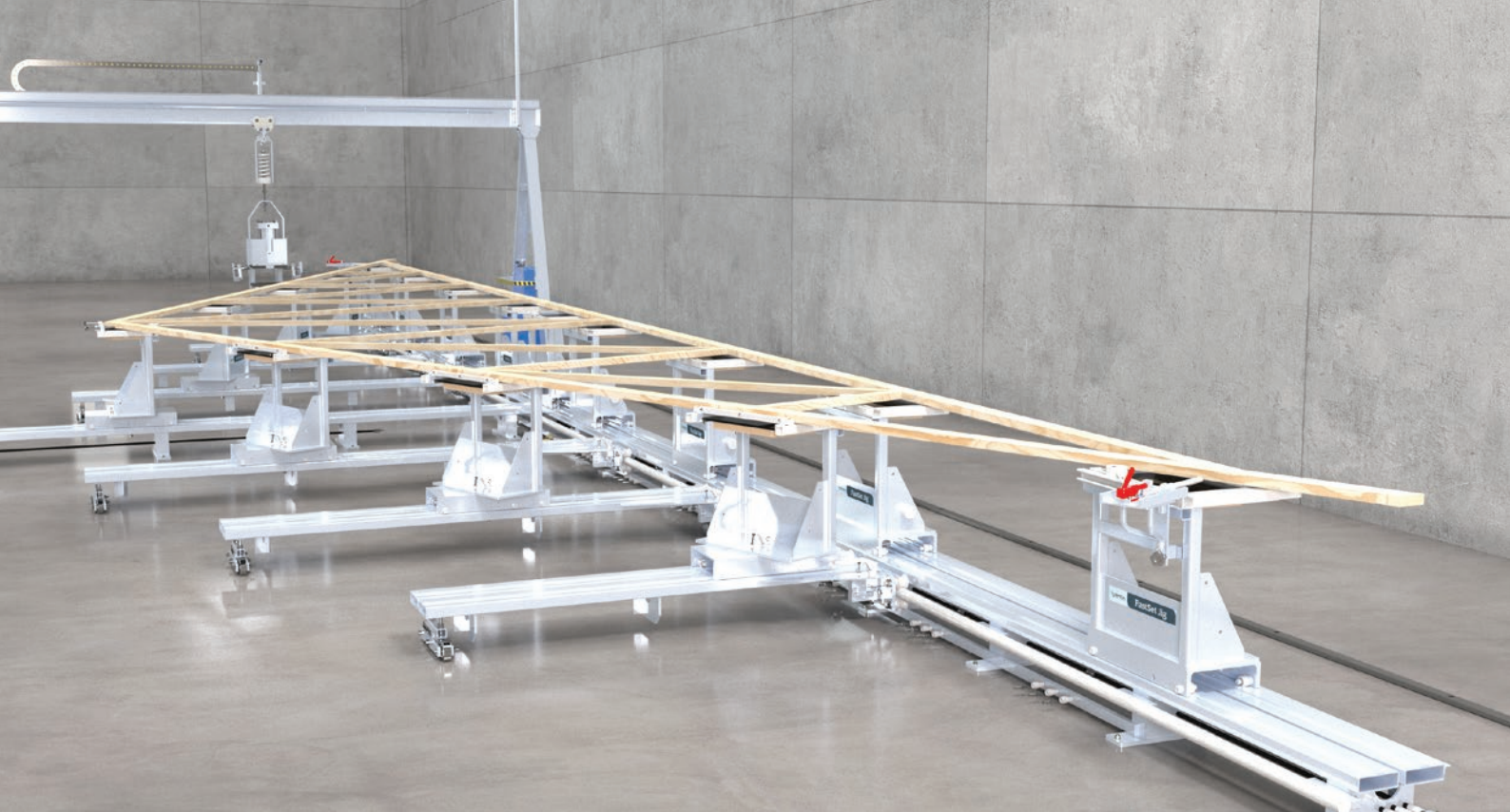
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*“At Multinail our focus is on partnering together to help your business grow by working alongside you and your people to increase productivity without adding to your workforce.”*

# Truss Assembly





# FastSet Jig



## USED FOR

The FastSet Jig is designed to support and locate truss components during the assembly and plating of the truss.

## FEATURES

- Quick action manual clamping
- Easy to manoeuvre flow through boxes
- Heavy duty construction
- Truss jiggling equipment
- Apex and heel jiggling
- Locator and camber bars, quick set camber screws

## OPTIONS

- 12000mm to 24000mm base rail
- Additional boxes
- Additional arms
- Floating apex available
- Pneumatic timber clamping
- Pneumatic pedestal clamping
- Portal Gantry / C-Frame Press
- Pace Press
- FMS
- Projection system (supplements FMS)

## SPECIFICATIONS (B-TYPE)

107A900

Overall length, width, height	16000mm x 4621mm x 974mm
Max truss height	4000mm
Max truss length	16000mm
Working height	912mm
Machine mass	2700kg

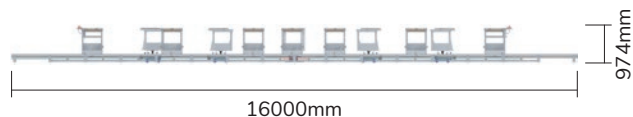
### B-type system

- 4 Floating arms
- 1 Fixed apex
- 12 Pedestal system

#### Top view



#### Side view



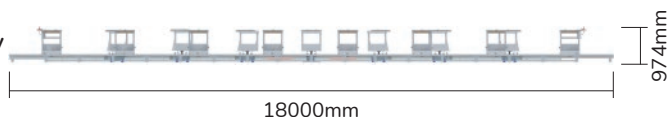
### C-type system

- 6 Floating arms
- 1 Fixed apex
- 15 Pedestal system

#### Top view



#### Side view





# Portal Gantry



## USED FOR

The Portal Gantry in conjunction with the FastSet Jig becomes a highly effective system for the manufacturing of increasingly complex roof shapes in modern homes

## FEATURES

- Overhead cable management
- Soft start travel motor
- Dual handed safety circuit, ergonomic control handles
- Variable speed drive

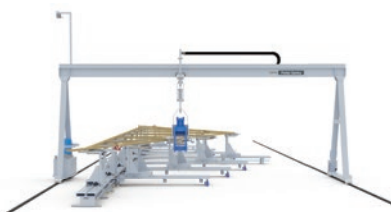
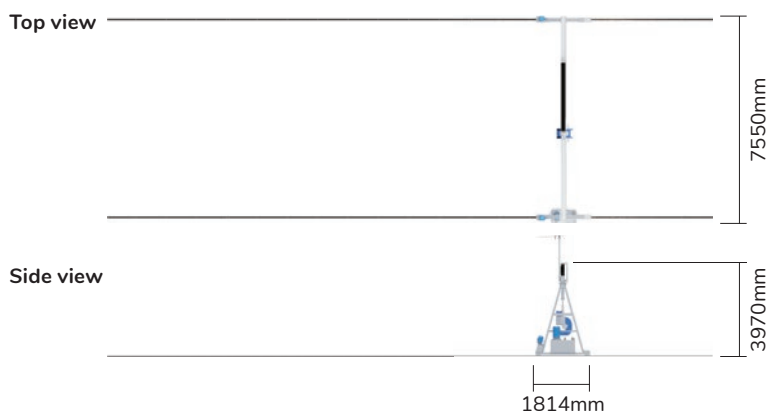
## OPTIONS

- 25t, 30t or 45t C-Frame Press

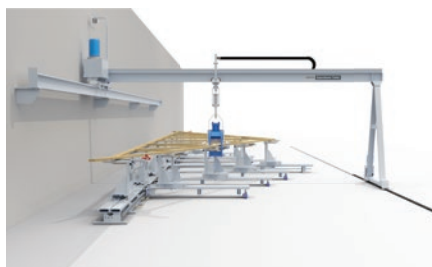
## SPECIFICATIONS

111A900

Overall length, width, height	1814mm x 7550mm x 3970mm
Max truss height	4000mm
Max truss length	18000mm
Working height	873mm
Machine mass	2325kg
Press head tonnage	30t
Electrical requirement	415V, 20amp, 3 phase neutral & earth



Portal Gantry



Space Saver



Double Space Saver



# Pace Press



## USED FOR

The Pace Press is designed to press nail plates into the bottom chord of timber trusses. It works in conjunction with the C-Frame Press.

## FEATURES

- 17m travel area
- Two handed safety circuit
- Floating head to allow simultaneous pressing of top and bottom plates
- Ride on carriage
- Heavy duty bisalloy side/structural plates
- 30t press head
- Powered in and out travel
- Powered lateral travel

## OPTIONS

- Variable track length
- Remote clamping control
- FastSet Jig or Magnetic Pedestals

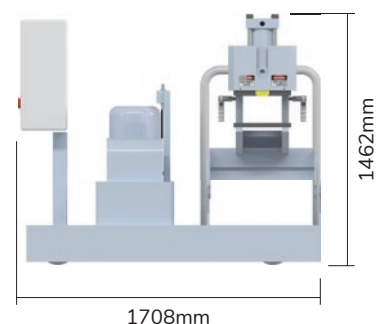
## SPECIFICATIONS

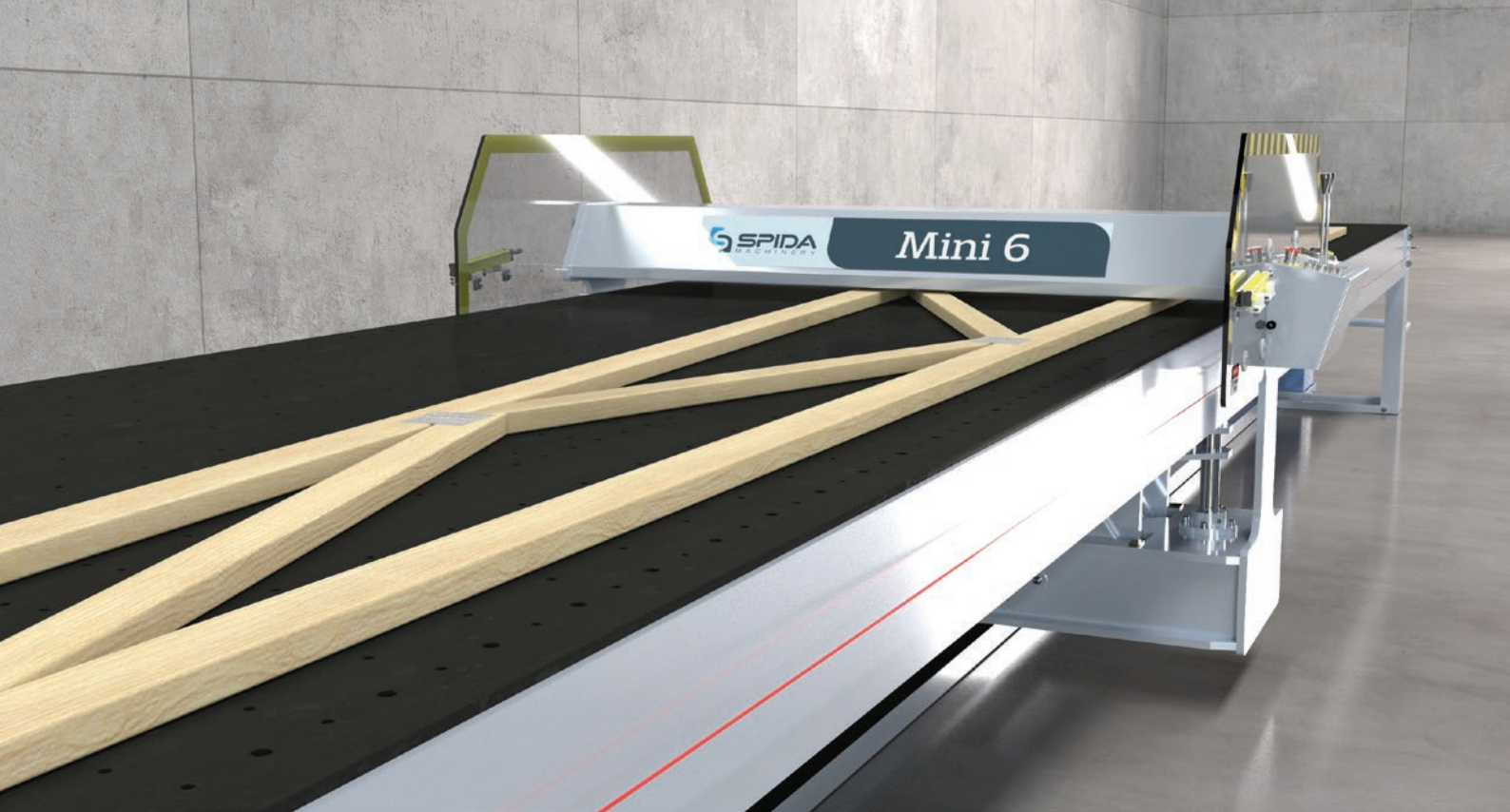
Press head capacity	30t
Motor	10kW
Platen size	310mm x 410mm
Stroke	150mm
Handles	Pistol grip
Vertical throat opening	155mm
Horizontal throat depth	295mm
Weight	1200kg approx.
Power requirements	415V, 32amp, 3 phase neutral & earth

Top view



Front view





## Mini 6



### USED FOR

Our range of table presses present supreme versatility and functionality to the frame and truss industry. With a 30t pressing head the ability to press any truss, hip, jack or other pressing requirement is an absolute breeze.

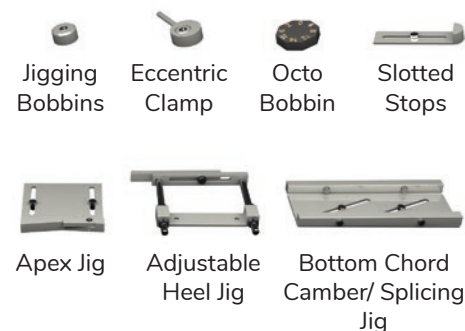
### FEATURES

- Bolt on truss jiggig included
- Safety laser beam
- Bell crank pressing action
- 150mm hole centres for jiggig

### OPTIONS

- Customised table length
- Pneumatic floor truss jiggig

### JIGGING

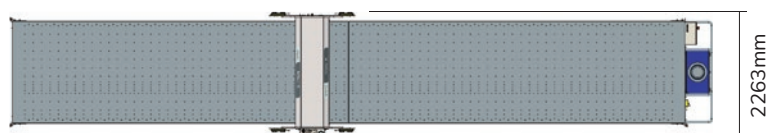


### SPECIFICATIONS

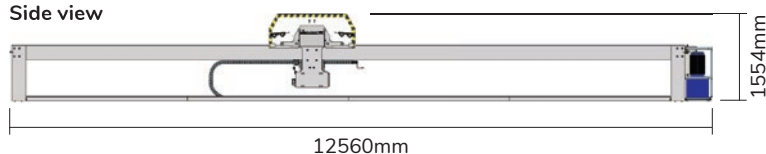
144A900

Overall length, width, height	12560mm x 2263mm x 1554mm
Max truss height	1800mm
Max truss length	10770mm
Min/Max timber dimension	35mm/140mm
Working height	987mm
Machine mass	7000kg
Pressing force	31000kg @ 2000psi
Press throat opening	150mm
Platen size	1800mm(w) x 600mm(d)
Electrical requirement	415V, 20amp, 3 phase neutral & earth

Top view



Side view





## Mini 8



### USED FOR

Our range of table presses present supreme versatility and functionality to the frame and truss industry. With a 40t pressing head the ability to press any truss, hip, jack or other pressing requirement is an absolute breeze.

### FEATURES

- Bolt on truss jigg included
- Safety laser scanner
- Ride-on carriage
- Direct drive
- Bell crank pressing action
- Pressure boost button to switch between 30t & 37t pressing force
- 150mm hole centres for jiggging

### JIGGING



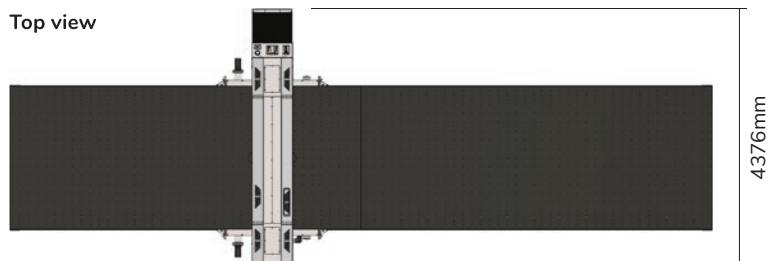
### SPECIFICATIONS

103A900

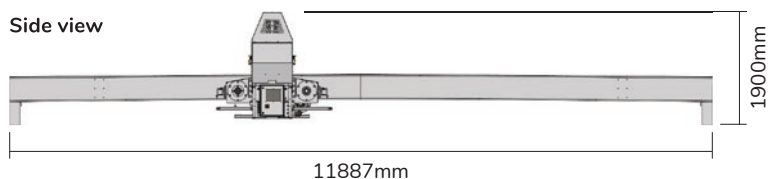
Overall length, width, height	11887mm x 4376mm x 1900mm
Max truss height	2400mm
Max truss length	9750mm
Min/Max timber dimension	35mm/140mm
Working height	829mm
Machine mass	10250kg
Pressing force	30000kg @ 1800psi/38000kg @ 2200psi
Press throat opening	150mm*
Platen size	2400mm(w) x 600mm(d)
Electrical requirement	415V, 32amp, 3 phase neutral & earth

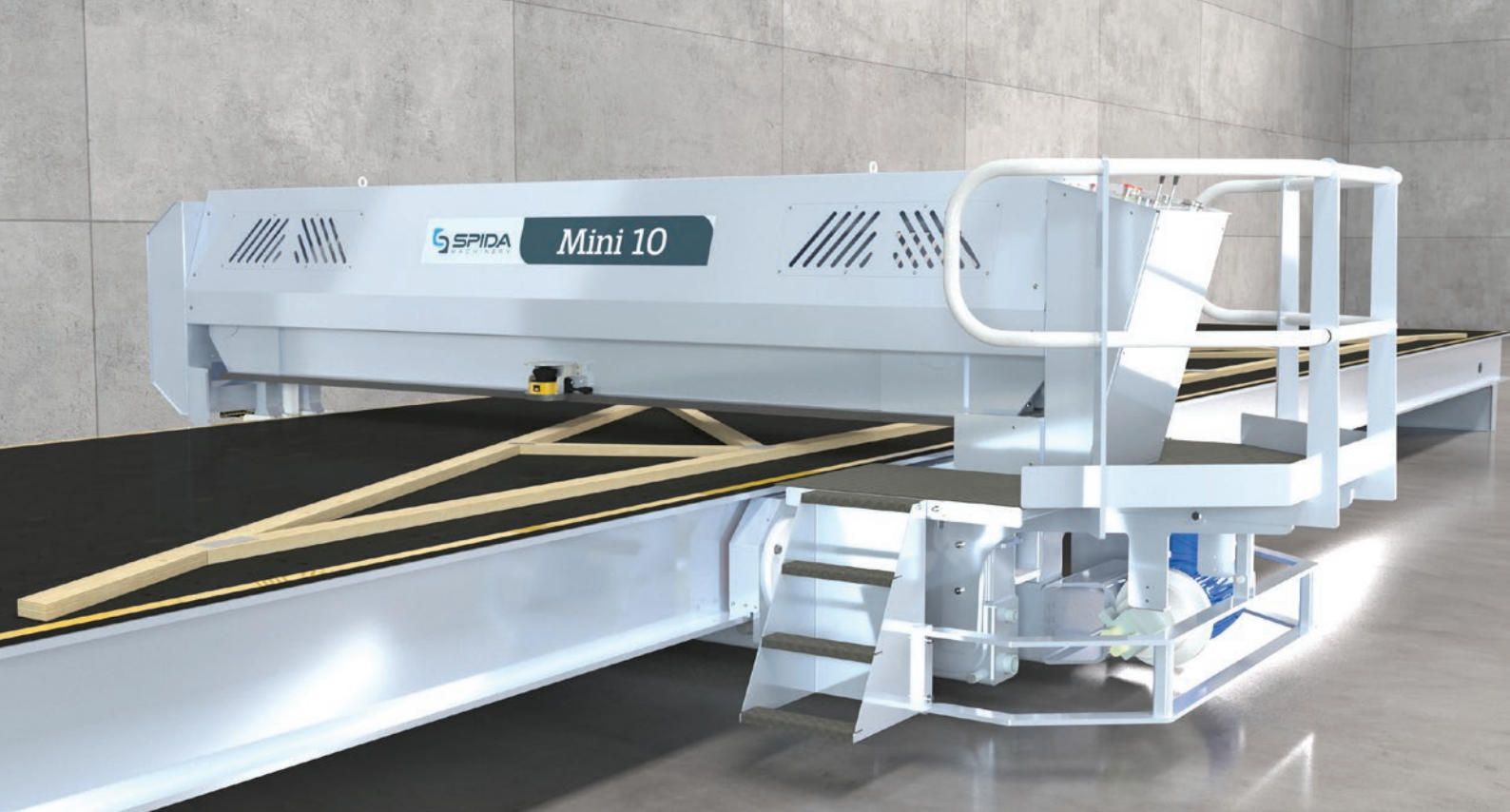
\* Please be aware that due to camber of the table the throat opening may have a variation of +/- 5mm

Top view



Side view





## Mini 10



### USED FOR

Our range of table presses present supreme versatility and functionality to the frame and truss industry. With a 40t pressing head the ability to press any truss, hip, jack or other pressing requirement is an absolute breeze.

### FEATURES

- Bolt on truss jigg included
- Safety laser scanner
- Ride-on platform
- Direct drive
- Bell crank pressing action
- Dual tonnage selector 30t & 38t
- 150mm hole centres for jiggging

### JIGGING



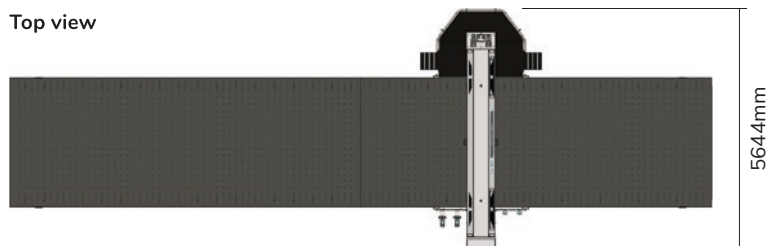
### SPECIFICATIONS

104A900

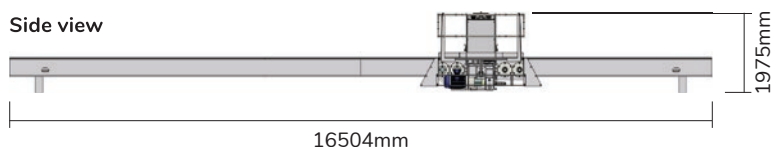
Overall length, width, height	16504mm x 5644mm x 1975mm
Max truss height	3000mm
Max truss length	13925mm
Min/Max timber dimension	35mm/140mm
Working height	829mm
Machine mass	16575kg
Pressing force	30000kg @ 1800psi/38000kg @ 2200psi
Press throat opening	150mm*
Platen size	3010mm(w) x 600mm(d)
Electrical requirement	415V, 32amp, 3 phase neutral & earth

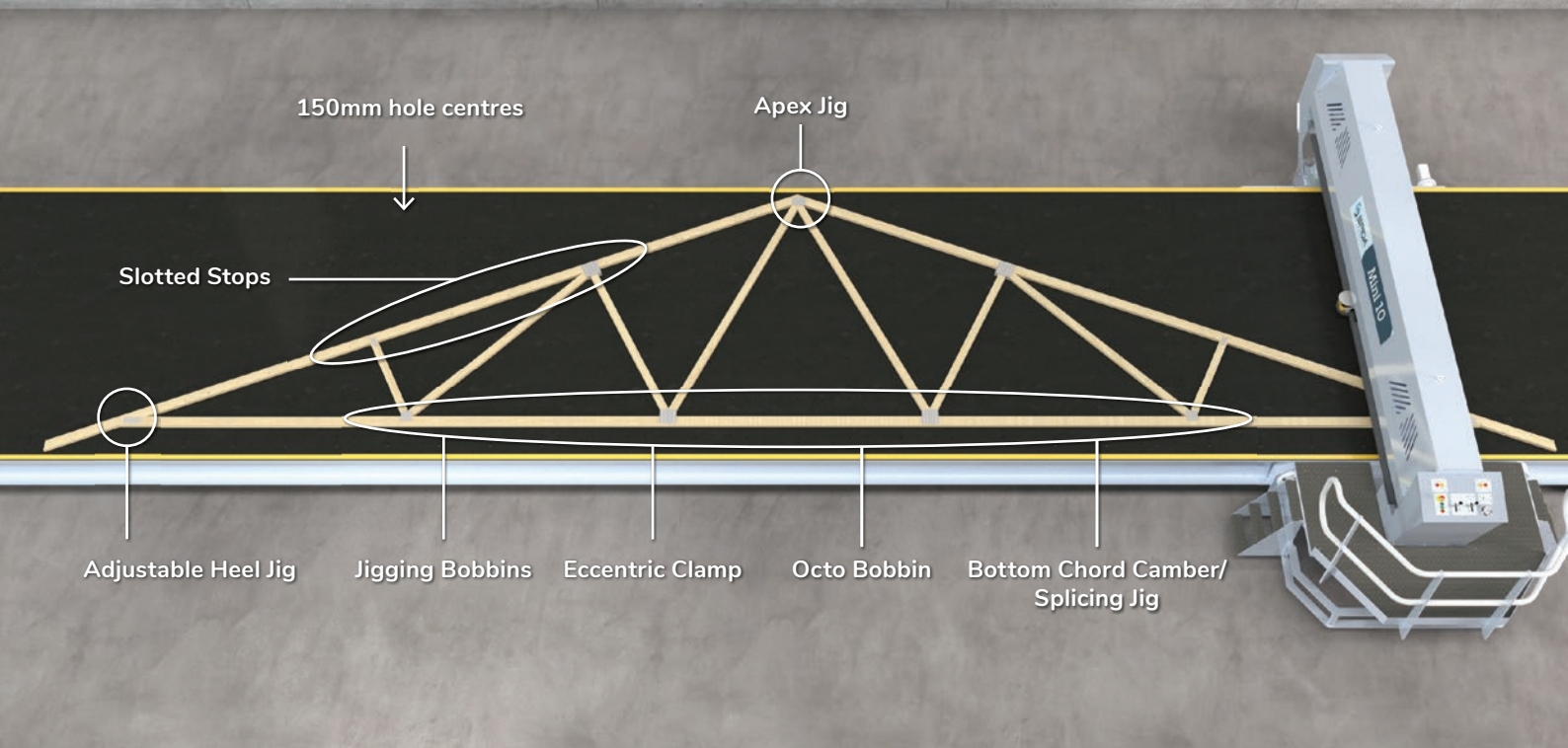
\* Please be aware that due to camber of the table the throat opening may have a variation of +/- 5mm

Top view



Side view





## Table Press Jigging



### USED FOR

Standard jigging for the Mini 4, 6, 8, and 10 range of table presses.  
Comprehensive range of jigging to suit all types of trusses.

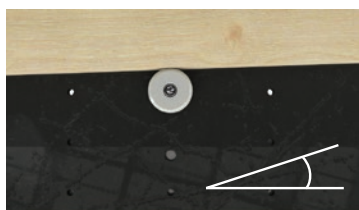
### Slotted Stops

Supplied in long and short  
6 of each supplied



### Jigging Bobbins

Various offsets: neutral, 3mm, 6mm, 9mm and 12mm  
4 of each supplied



### Apex Jig

1 supplied



### Eccentric Clamp

6 supplied



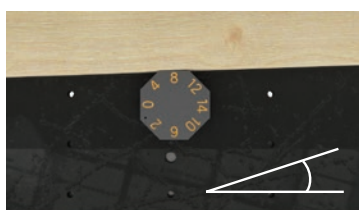
### Adjustable Heel Jig

2 supplied



### Octo Bobbin

16 supplied



### Bottom Chord Camber/Splicing Jig

8 supplied





# Jack Roller



## USED FOR

The Jack Roller is an assembly station for smaller hip, jack and saddle trusses. The table configuration allows for multiple operators to assemble individual trusses and feed them through the finish roller

## FEATURES

- Heavy duty construction
- Two 600mm diameter rollers
- Not limited to any truss shape
- High level safety features

## OPTIONS

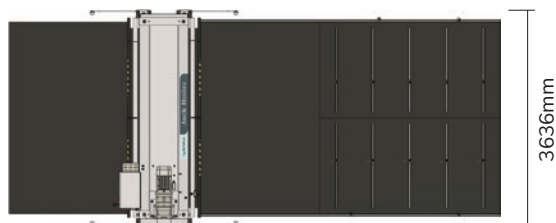
- Extra out feed conveyor rollers
- Materials handling trolleys
- FMS

### SPECIFICATIONS JACK ROLLER 3000

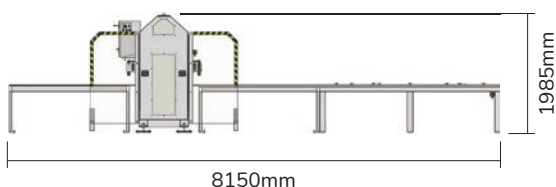
169A901

Overall length, width, height	8150mm x 3636mm x 1985mm
Max truss height	2964mm
Min/Max timber dimension	35mm/45mm
Working height	780mm
Machine mass	7400kg
Press throat opening	2964mm(w) x 45mm(h)
Roll diameter	600mm
Electrical requirement	415V, 20 amp, 3 phase, neutral & earth

Top view



Side view

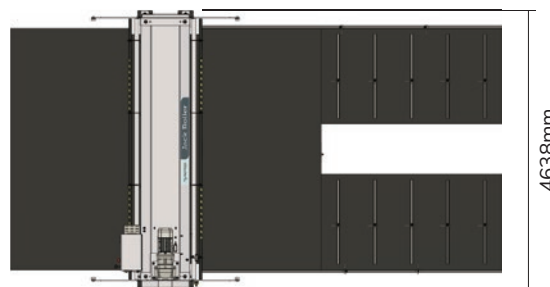


### SPECIFICATIONS JACK ROLLER 4000

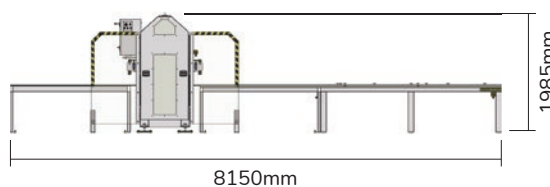
169A900

Overall length, width, height	8150mm x 4638mm x 1985mm
Max truss height	3984mm
Min/Max timber dimension	35mm/45mm
Working height	780mm
Machine mass	8650kg
Press throat opening	3984mm(w) x 45mm(h)
Roll diameter	600mm
Electrical requirement	415V, 20 amp, 3 phase, neutral & earth

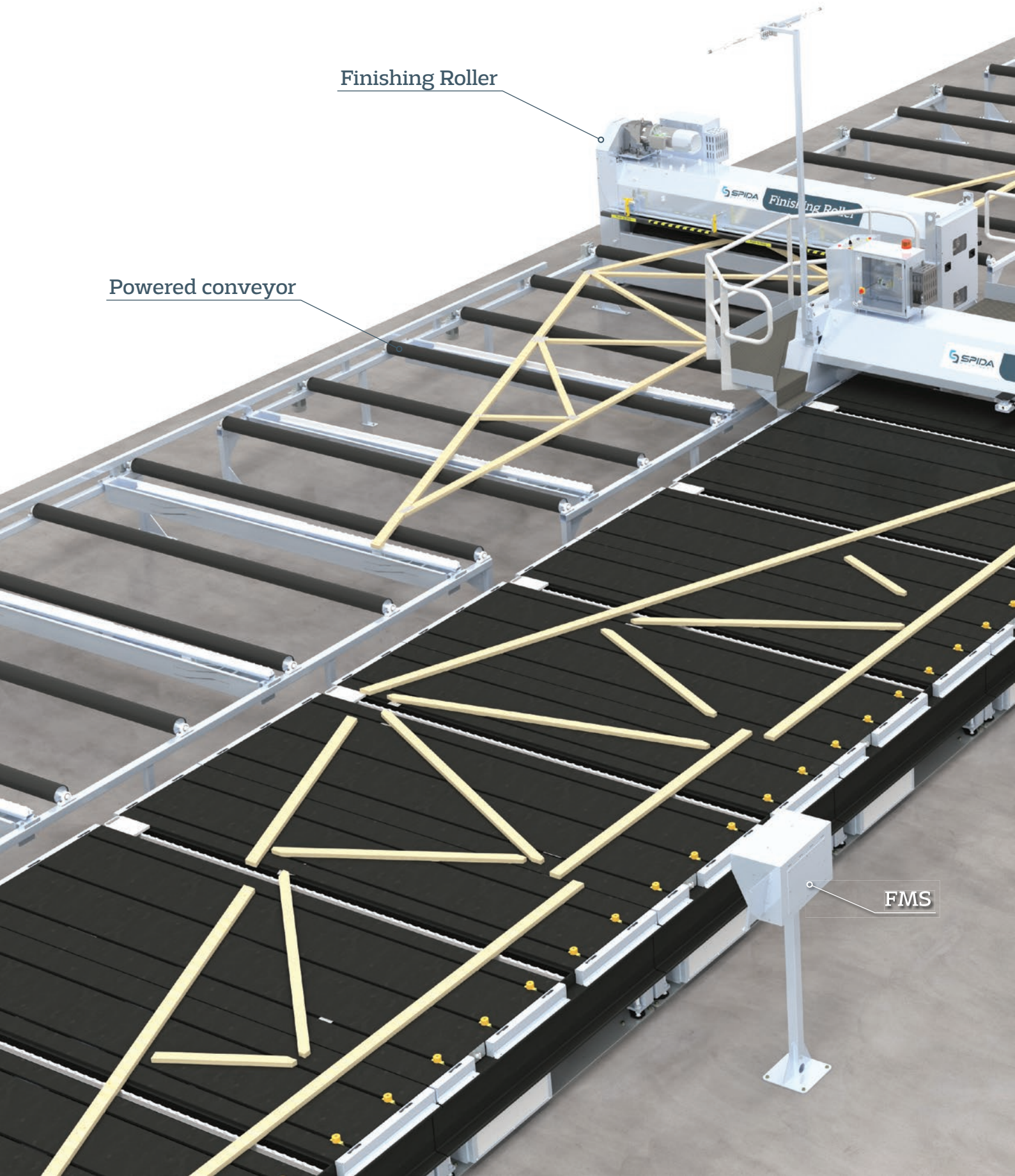
Top view



Side view



# Roller Press System



Finishing Roller

Powered conveyor

FMS



Preset Roller



# Preset Roller



## USED FOR

The Preset Roller Press is designed to provide a partial press of nailplates into the timber component of a roof truss by rolling over the assembled truss.

## FEATURES

- Electrical optical safety beam and roll back
- Operator ride on above table height
- Heavy duty construction
- Easy operation/controls

## OPTIONS

- Power 35mm or 45mm timber thickness adjustment
- FMS

## SPECIFICATIONS

213A805

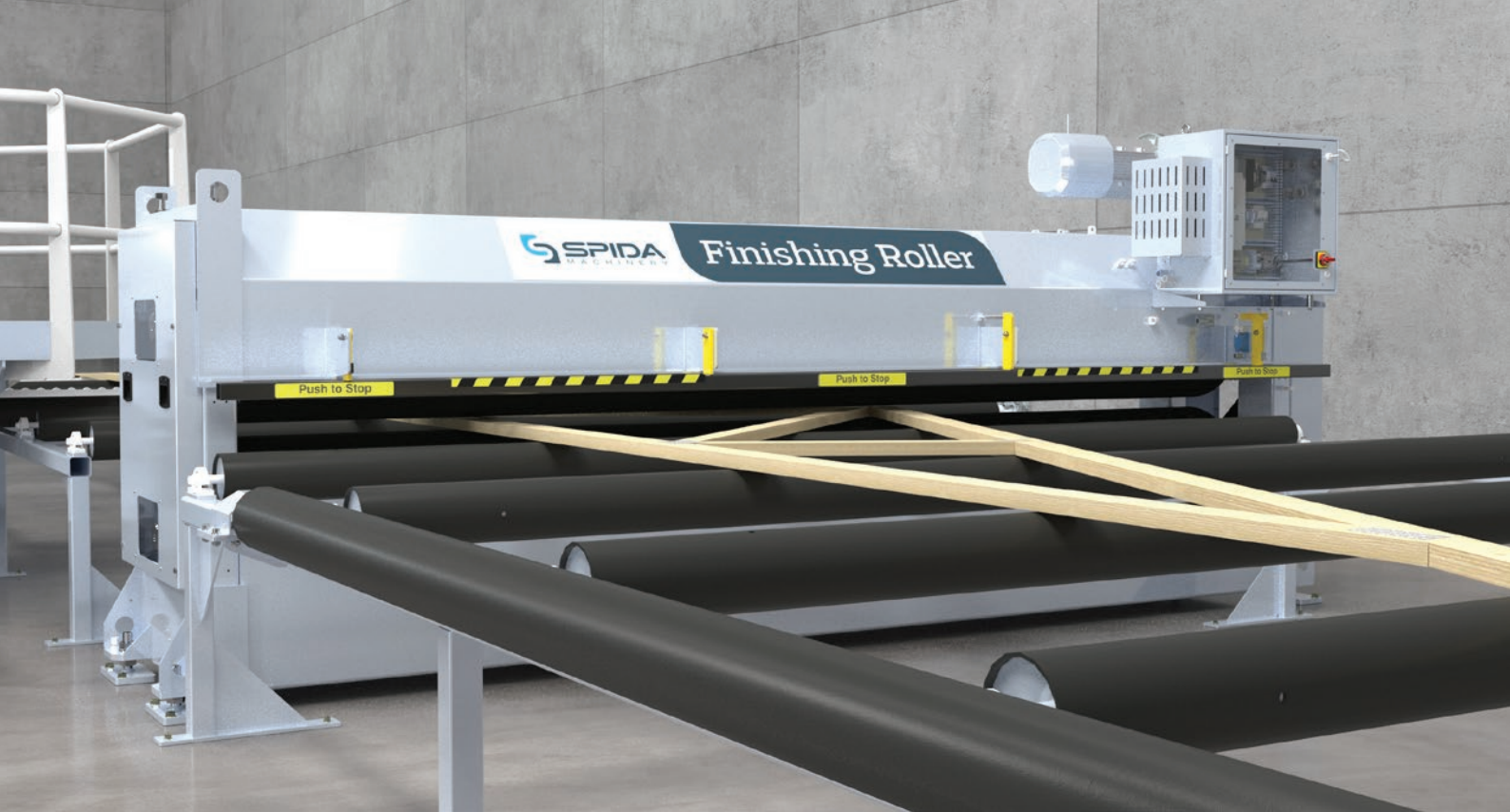
Overall length, width, height	2750mm x 5800mm x 4334mm
Max truss height	3984mm
Min/Max timber dimension	35mm/45mm
Working height	790mm
Machine mass	4575kg
Press throat opening	3984mm(w) x 45mm(h)
Electrical requirement	415V, 25amp, 3 phase neutral & earth

Top view



Front view





## Finishing Roller



### USED FOR

The Finishing Press is designed to provide the final force required to embed the nailplate into the timber component of a roof truss. This is achieved by rolling the truss through the top and bottom rollers housed in the finish roller.

### FEATURES

- Safety light curtain
- Speed, 1m/second
- Heavy duty construction

### OPTIONS

- Powered conveyor infeed / outfeed system
- Power 35mm or 45mm timber thickness adjustment

### SPECIFICATIONS

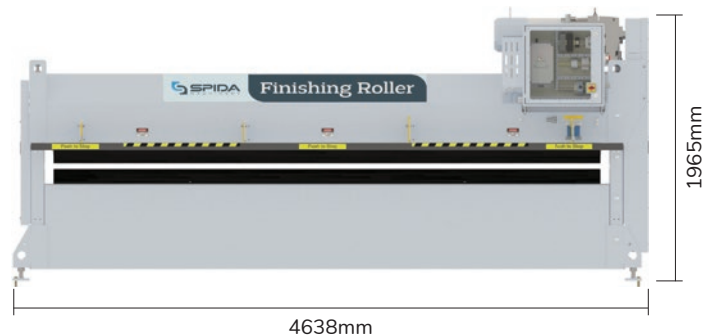
213A806

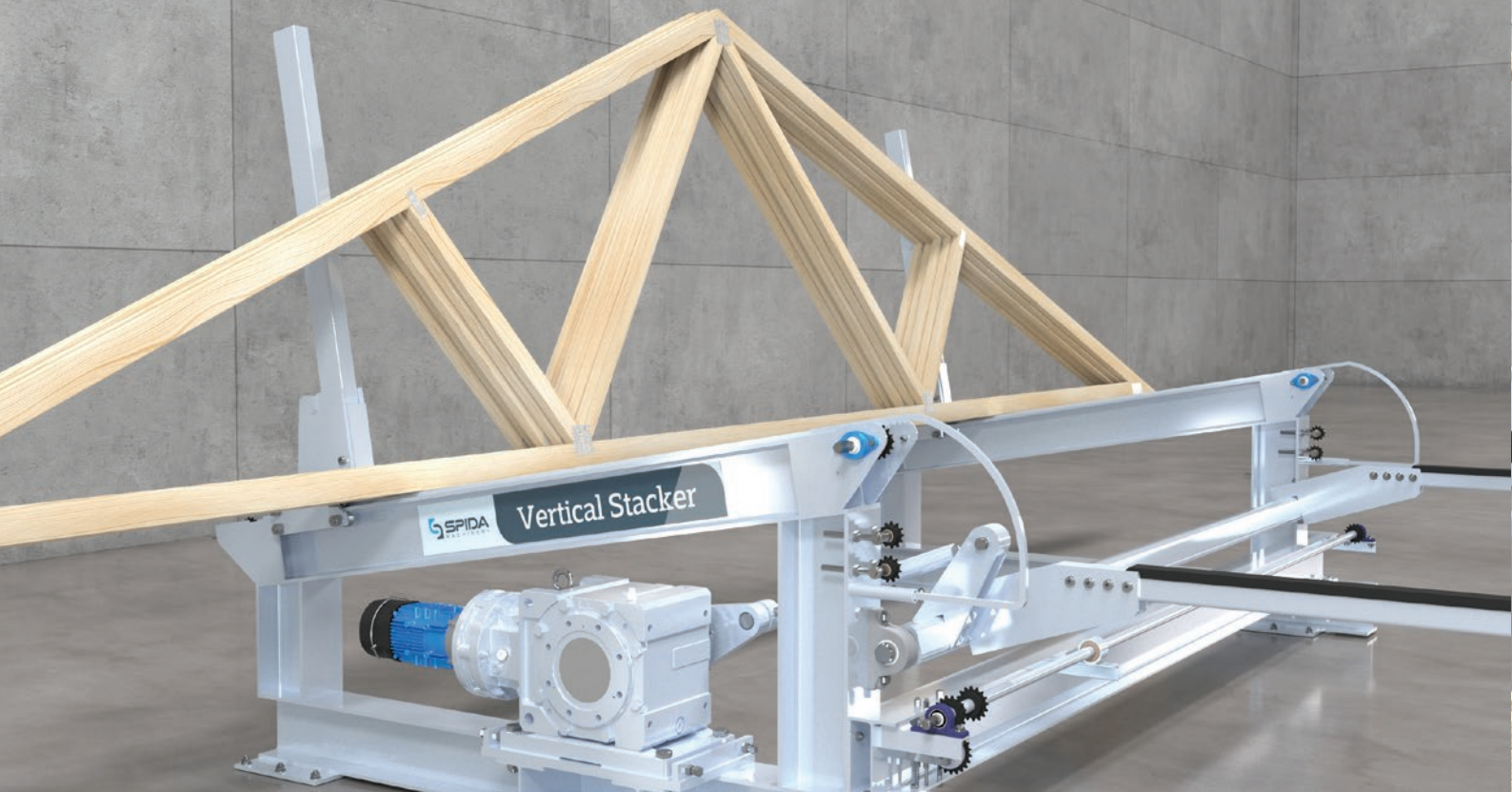
Overall length, width, height	4638mm x 1428mm x 1965mm
Max truss height	3984mm
Min/Max timber dimension	35mm/45mm
Working height	790mm
Machine mass	4575kg
Press throat opening	3984mm(w) x 45mm(h)
Roll diameter	600mm
Electrical requirement	415V, 20amp, 3 phase neutral & earth

Top view



Front view





# Vertical Stacker



## USED FOR

Vertically stacks trusses. Available for both roof truss stacking and floor truss stacking.

## FEATURES

- Available for both roof truss stacking and floor truss stacking
- Allows for easy banding
- Utilises less yard space for inventory
- Provides easy transportation in yard

## OPTIONS

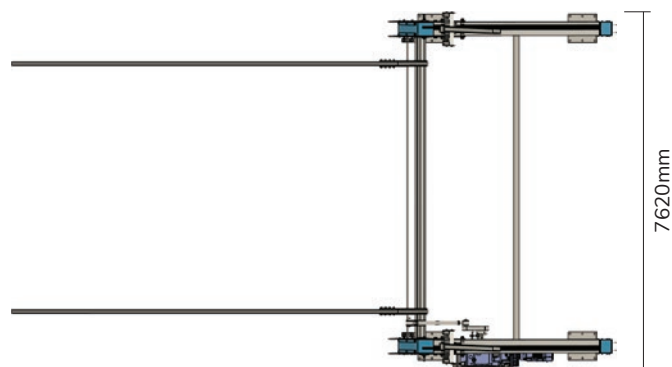
- 12" touchscreen
- Radio frequency controls
- Intelligent stacking controls

## SPECIFICATIONS

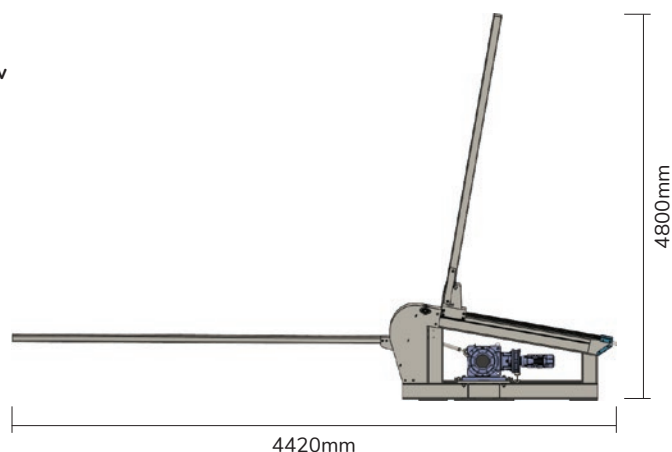
70D0000

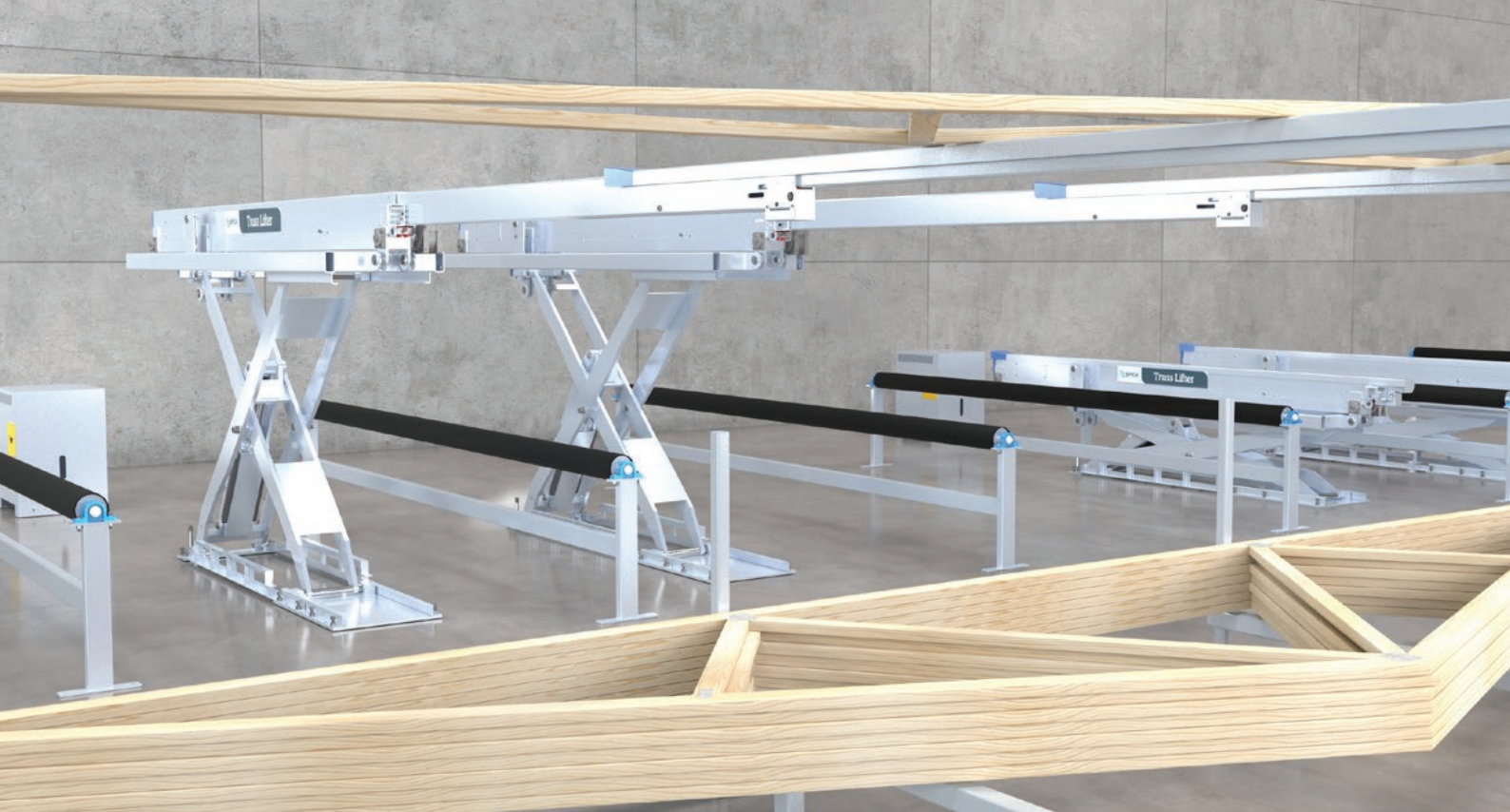
Overall length, width, height	4420mm x 7620mm x 4800mm
Working height	762mm
Machine mass	2585kg
Electrical requirement	460V, 5amp, 3 phase

Top view



Side view





# Truss Lifter



## USED FOR

Automated lifting, moving and stacking of finished truss components from a truss roller press system.

## FEATURES

- Automated lifting and stacking of trusses eliminates operator fatigue and lifting injuries
- Designed to handle 200kg trusses with ease
- Operator remote control allows movement when stacking
- Sensors to prevent overrun
- Toothed safety mechanism on lifting ram to prevent lifter falling should the hydraulics fail

## OPTIONS

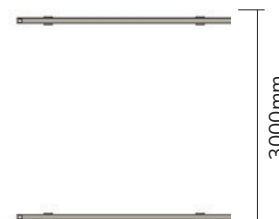
- Adjustable to match your existing outfeed height
- 3<sup>rd</sup> lifter for larger trusses
- Output to stop Finish Roller when lifting
- Spare remotes

## SPECIFICATIONS

1401000

Overall length, width, height	9800mm x 3000mm x 2000mm
Max truss height	3600mm
Working height	500mm - 2000mm
SWL	1000kg
Machine mass	1300kg
Operational db	50dB
Electrical requirement	400-460V, 1 Damp, 3 phase + neutral
Air requirement	10L/min @ 6 bar

### Top view



### Side view



9800mm



Retracted

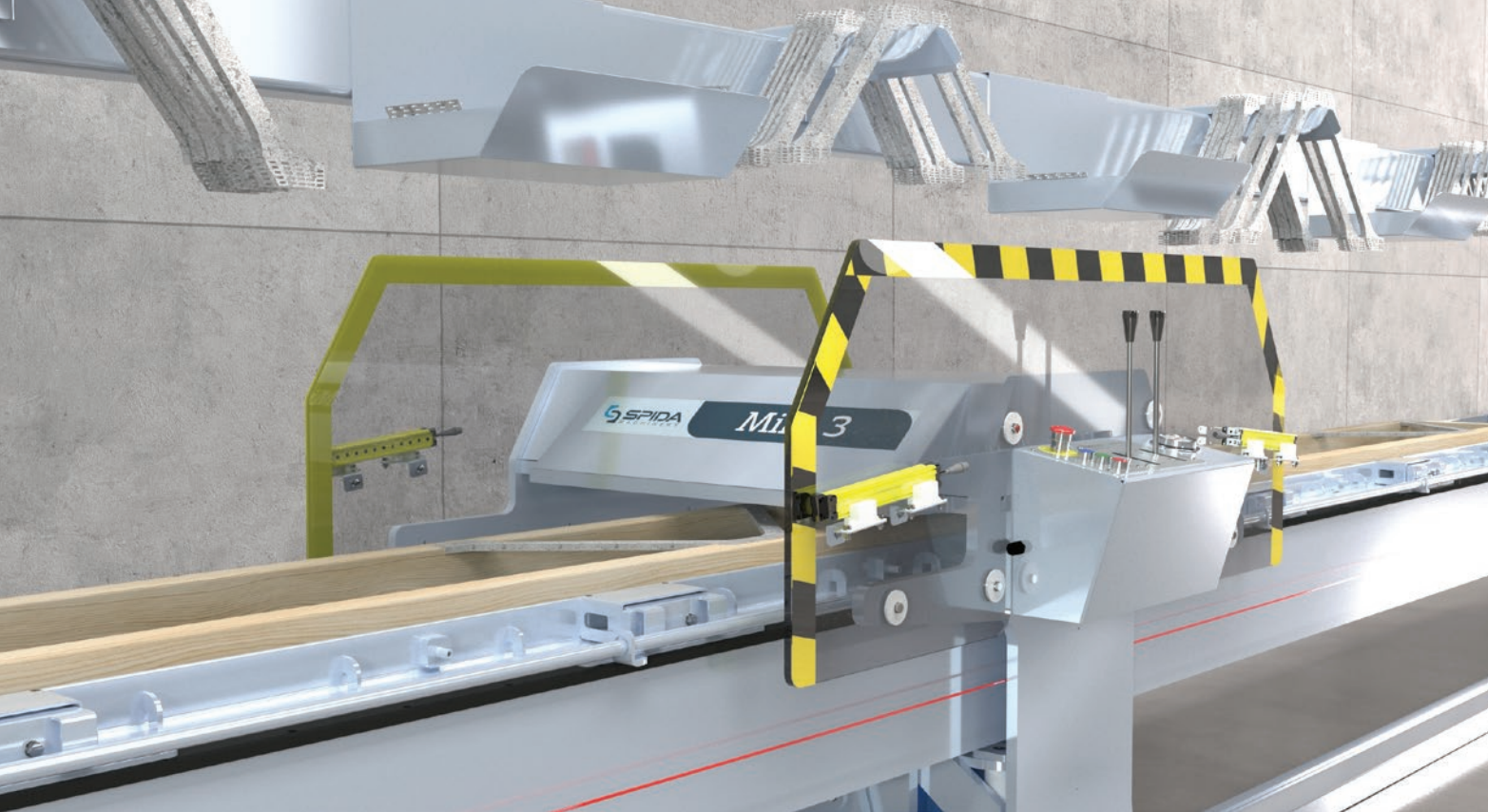
Extended

A man in a white lab coat and safety glasses is working on a robotic arm in a factory setting. The background is a teal gradient with a large white stylized 'M' shape in the bottom right corner.

*“Our global research and development of leading-edge technologies will ensure Multinail customers have access to the most technically advanced machines in the world.”*

# Floor Truss





## Mini 3



### USED FOR

Press floor trusses and/or low pitch roof trusses, hips or jacks with ease using this speedy and versatile table press.

### FEATURES

- Pneumatic floor jigging
- Safety laser beam
- Bell crank pressing action
- Jigging depth range 200mm – 640mm
- Overhead structure to store metal webs and nailplates
- Platen size 860mm x 810mm

### OPTIONS

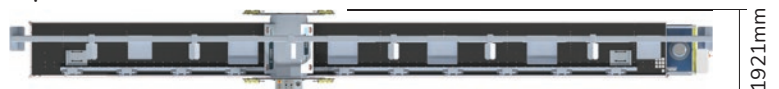
- Customised table length

### SPECIFICATIONS

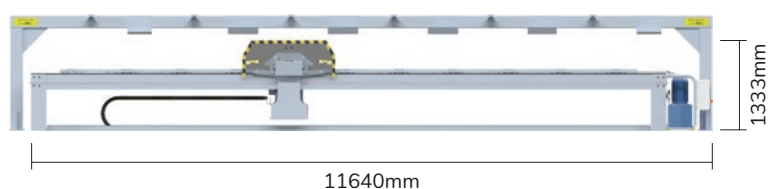
195A900

Overall length, width, height	11640mm x 1333mm x 1921mm
Max truss height	625mm
Max truss length	9440mm
Min/Max timber dimension	70mm/120mm
Working height	937mm
Machine mass	5400kg
Pressing force	31000kg @ 2000psi
Press throat opening	120mm
Platen size	860mm(w) x 810mm(d)
Electrical requirement	415V, 20amp, 3 phase neutral & earth

Top view



Side view



Strut Roller 1200

Strut Roller 2000



Wireless machine control

# Strut Roller



## USED FOR

Dedicated strut roller for floor trusses

## FEATURES SPECIFICATIONS

- Safety scanner
- Ride-out/Park station each end
- Solid steel construction
- Wireless machine control
- "Flip-over" pneumatic jig system

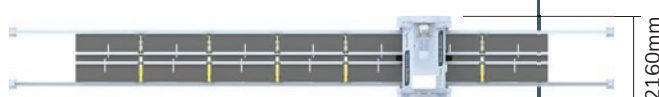
## OPTIONS

- Splicing platform for top and bottom chords (Strut Roller 2000 only)

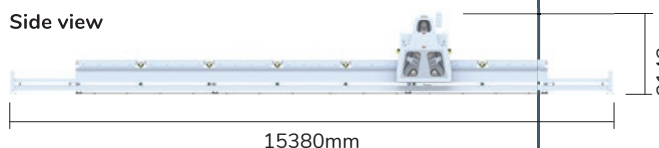
### SPECIFICATIONS STRUT ROLLER 1200 203A900

Overall length, width, height	15380mm x 2160mm x 2143mm
Max Strut Height	450mm
Max Strut Length	12000mm
Max timber height	90mm
Working height	756mm
Machine mass	8620kg
Press throat opening	1200mm(w) x 90mm(h)
Roll diameter	600mm
Electrical requirement	415V, 25amp, 3 phase neutral & earth

Top view



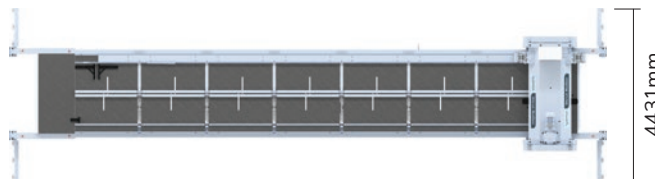
Side view



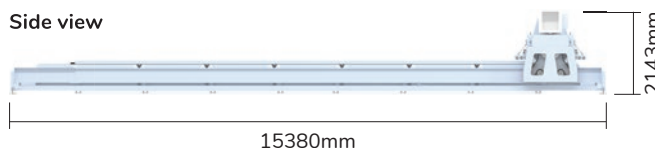
### SPECIFICATIONS STRUT ROLLER 2000 196A900

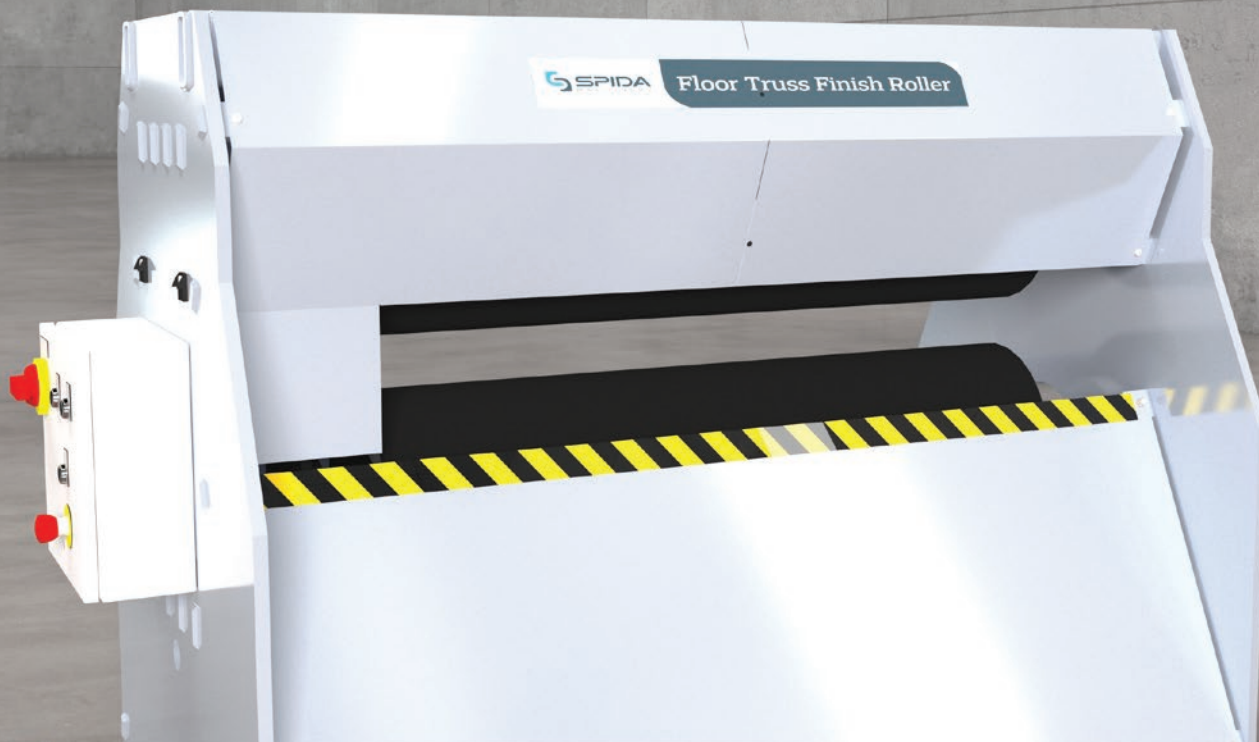
Overall length, width, height	15380mm x 4431mm x 2143mm
Max Strut Height	680mm
Max Strut Length	12000mm
Max timber height	90mm
Working height	756mm
Machine mass	10635kg
Press throat opening	2000mm(w) x 90mm(h)
Roll diameter	600mm
Electrical requirement	415V, 25amp, 3 phase neutral & earth

Top view



Side view





## Floor Truss Finish Roller



### USED FOR

For use on Jacks or Floor Trusses.  
Final pressing of nail plates

### FEATURES

- Efficient, compact design
- Meets demand for low cost and high quality equipment
- Reduce wear and tear on gantry and table
- Produces at 36m per minute
- Photo electric sensor E-stops

### OPTIONS

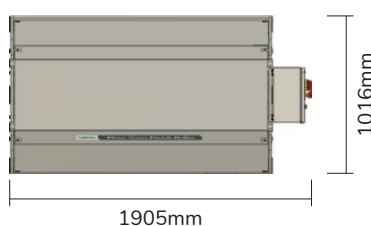
- 10hp motor upgrade
- 90mm gap between rolls for floor trusses (standard)
- 38mm gap between rolls for jacks
- Available in 1.2m, 1.8m, and 2.4m lengths
- Roll height adjustment
- Solid lubrication, lubricated for the life of the bearing
- Customisations available

### SPECIFICATIONS

69A0000

Overall length, width, height	1905mm x 1016mm x 1372mm
Working height	813mm
Machine mass	2041kg
Electrical requirement	460V, 15amp, 3 phase
Air requirement	.25cfm, 90psi
Cycle time	4sec

Top view



Front view



# Accessories





## FMS Station



### USED FOR

The use of a Factory Management System podium, monitor or television system provides employees a paperless display of your current job, cutting solution, pressing point or frame file. Can be used throughout the factory from a small display to large team display.

All output files are displayed from your nailplate supplier, fed in real-time to keep projects moving.

### FEATURES

- Easy integration into existing network infrastructure
- Cost effective technology solution for Factory Management System

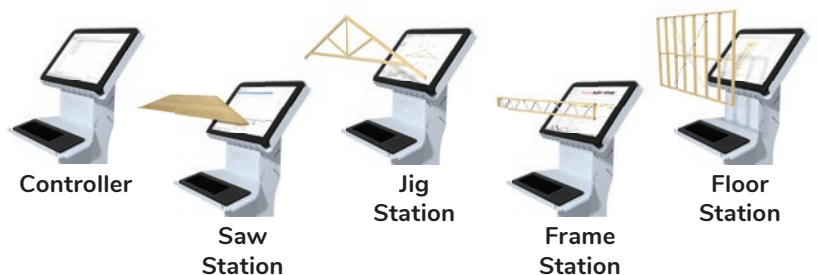
### OPTIONS

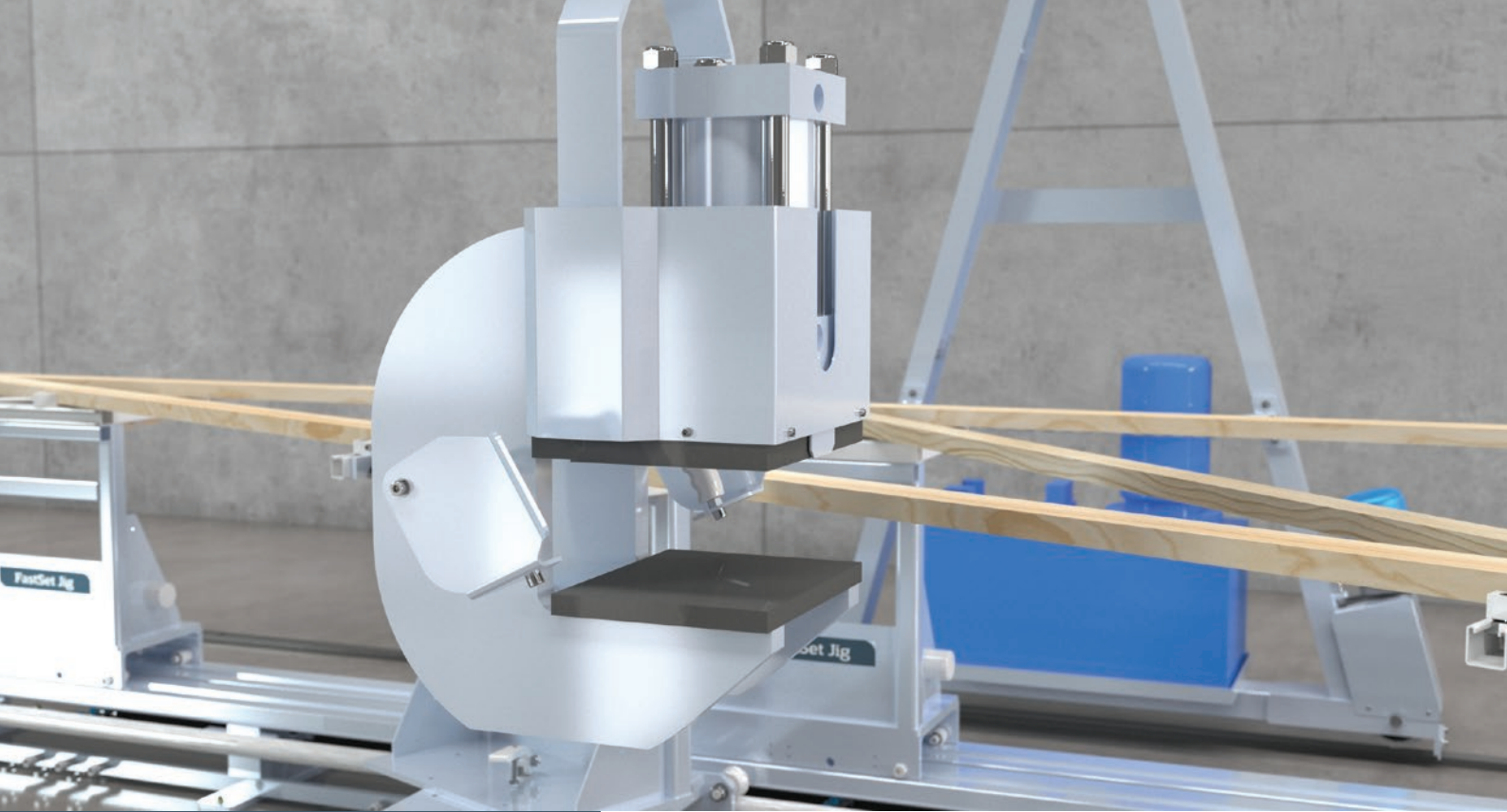
- Durable powder coated frames
- Choice of tablet size, 24" industrial touch screen or large screen wall monitor
- Workstation with touch screen or keyboard
- Bluetooth 4.0
- Removable keyboard/document tray
- Top mount hanger
- HDMI extender

### SPECIFICATIONS

208A900

Overall length, width, height	369mm x 418mm x 1370mm
Working height	982mm
Machine mass	23kg
Electrical requirement	10amp, 1 phase





## C Frame Press



### USED FOR

The C Frame Press is a hydraulic platen press designed to force nail plates into timber trusses through clamping.

### FEATURES

- Regeneration valve for fast return stroke operation
- Two handed safety circuit
- Head mount cradle
- Adaptable to most pedestal systems
- Heavy duty bisalloy side/structural plates
- 30t press head

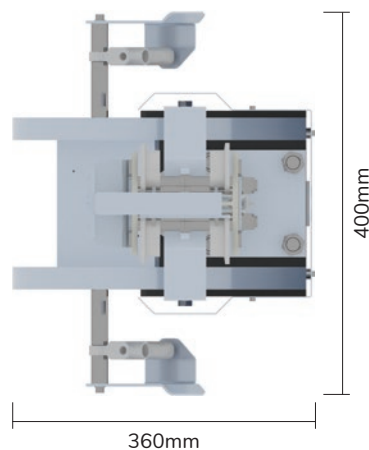
### OPTIONS

- 45t press head

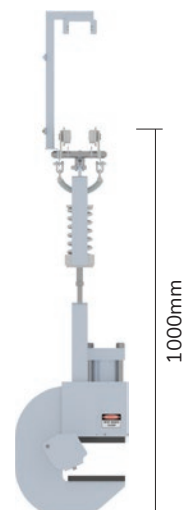
### SPECIFICATIONS

Overall length, width, height	1000mm x 360mm x 400mm
Machine mass	34kg
Air requirement	1L/min
Clamping force	45Kgf

Top view



Side view





## Component Trolley



### USED FOR

Transport and storage of timber packs or components.

### FEATURES

- Four removable retaining posts

### OPTIONS

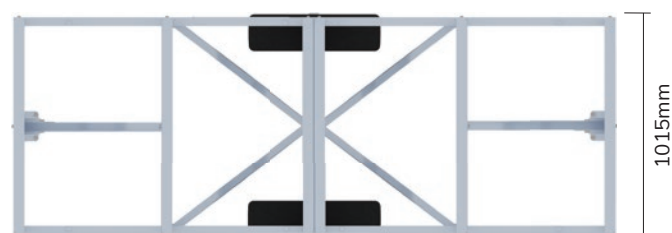
- Can be customised to suit customer requirements

### SPECIFICATIONS

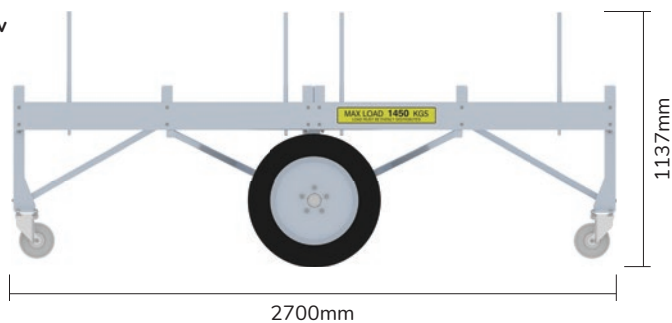
230A900

Overall length, width, height	2700mm x 1015mm x 1137mm
Working height	815mm
SWL	1450kg
Machine mass	180kg

Top view



Side view





# Tree Trolley



**USED FOR**  
 Transport and storage of cut timber components.

- FEATURES**
- Flat pack assembly
  - Lockable castor wheels

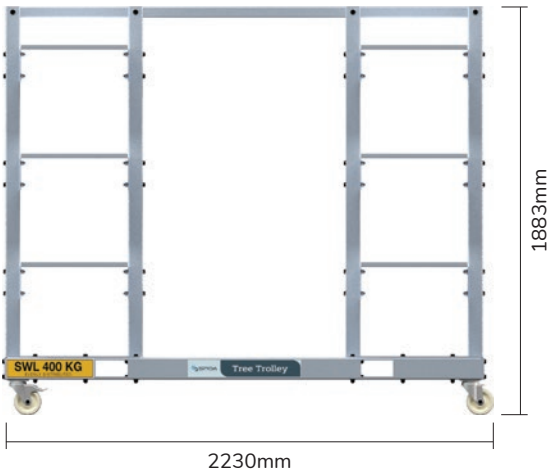
- OPTIONS**
- Can be customised to suit customer requirements

SPECIFICATIONS		230A902
Overall length, width, height	2230mm x 1140mm x 1883mm	
Working height	1185mm	
SWL	50kg per shelf	
Machine mass	225kg	

Top view



Front view





# Triangle Trolley



## USED FOR

The transport and storage of complete trusses or wall frames. Move your completed product with ease and store off the ground for easy pick-up, strapping and transport.

## OPTIONS

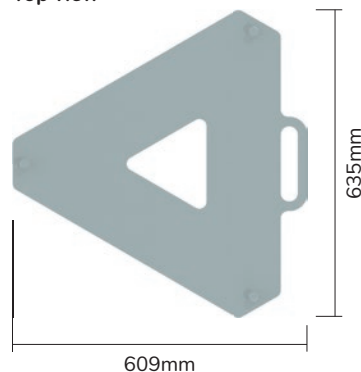
- Lockable castor wheels
- Can be customised to suit customer requirements
- Larger wheels available for gravel areas

## SPECIFICATIONS

230A901

Overall length, width, height	609mm x 635mm x 167mm
Working height	137mm
SWL	350kg
Machine mass	29kg

Top view



Front view





## Bunk System - 9m



### USED FOR

For the storage and use of multiple timber packs - size, grade and length, to enable quick feeding of linear or other saws for increased production. A variety of timber at the sawyer's finger tips, means your saw will never be waiting for timber again.

### FEATURES

- Solid machined steel rollers
- Timber pack carriages with removable frontleg for easy loading
- Loadable by forklift
- Empty timber pack carriages are returned to the front of conveyor for next pack

### OPTIONS

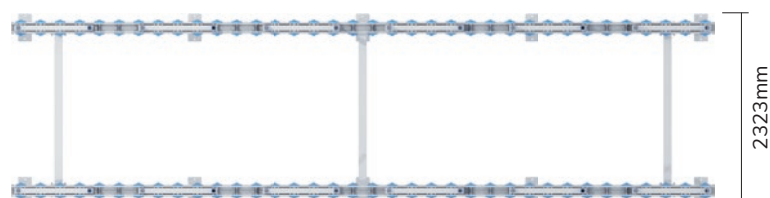
- Custom lengths available
- Custom timber pack carriage widths available

### SPECIFICATIONS

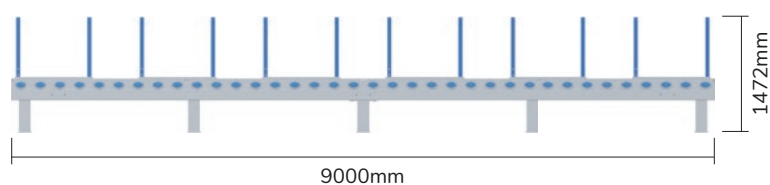
184A900

Overall length, width, height	9000mm x 2323mm x 1472mm
Working height	712mm
Machine mass	1850kg

Top view



Front view





*“We are committed to supporting your business, responding as and when required and never let location be an issue with specialist teams located throughout Australia.”*

## Notes


[illegible]



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*“The Multinail company is made up of highly skilled, passionate people with extensive experience and knowledge of the timber prefabrication industry.”*