

Wall 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.



Contents

Wall Assembly

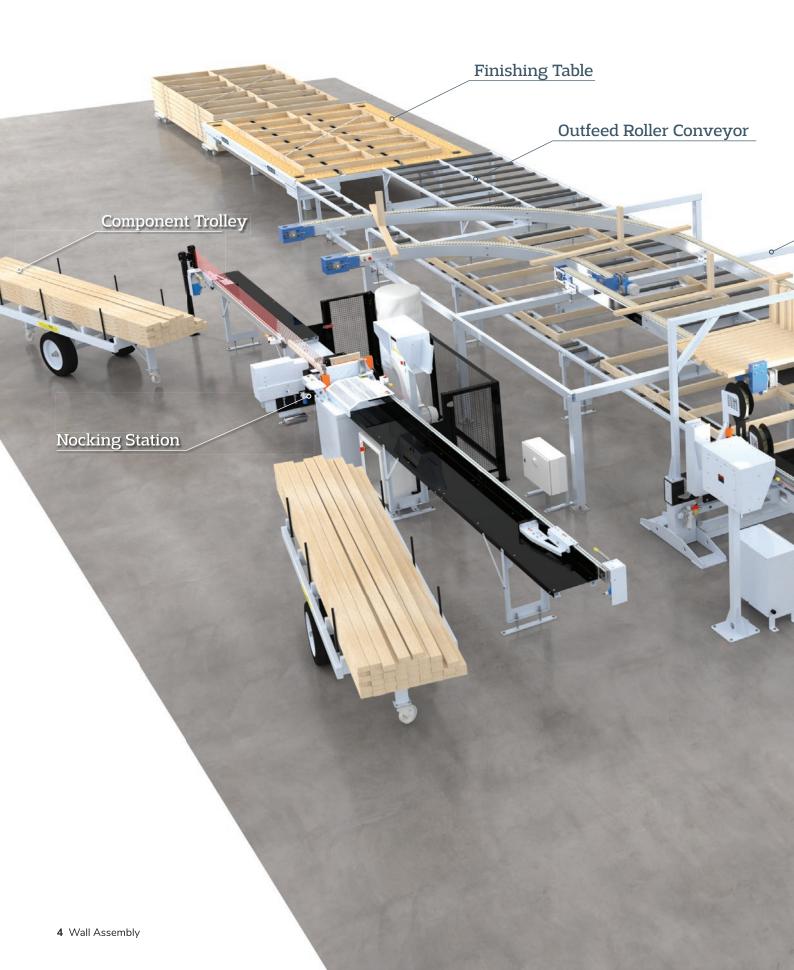
Auto Framer
Raked Wall Extruder9
Component Nailer10
Nocking Station11
Stud Extruder
3 Head Nog Nailer13
Conveyor Overframe & Pusher14
Curved Conveyor15
Roller Conveyor 9m16
Major Sub Assembly Table17
Major Sub Component Infeed
Assembly Rotation Table19
Wall Descent System20
Chain Conveyor21
Straight Chain Conveyor22
Wall Stacker23
Frame Hook24
Lift Finishing Table25
Finishing Table
Wall Stacker Outfeed27
Build Table
Sheather
Butterfly Table – Single
Butterfly Table

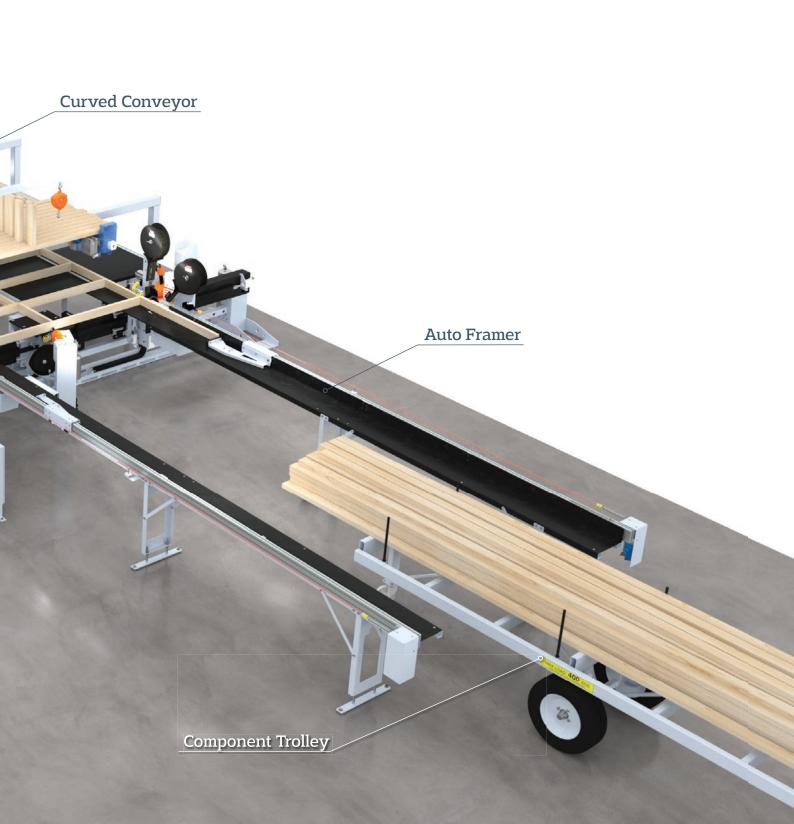
Accessories

FMS Station	.34
Component Trolley	.35
Tree Trolley	.36
Triangle Trolley	.37
Bunk System - 9m	.38

Frame Line System

The combinations are endless





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. ??

Wall Assembly





Auto Framer

USED FOR

The Auto Framer is designed to assemble wall frames from precut timber components. The length stops on the infeed setting the plate position relative to the stud being nailed in. After a stud is nailed in, the progressors will index through to the next stud position, this repeats until the frame is finished.

FEATURES

- Four gun mounted brackets
- Height adjustable nail gun & clamp guarding
- Vertical clamp override mechanism to allow stud adjustment once clamped
- Adjustable for wall frame heights from 1800mm 3600mm
- Quick change over from 70mm to 140mm wall thickness
- Two handed operation safety circuit

OPTIONS

- Left or right hand adjustable for wall height
- Outfeed Roller Conveyors



With Manual centre gun



182A912

SPECIFICATIONS

Overall length, width, height	8024mm x 5483mm x 2391mm
Wall height	2000mm - 3600mm
Max frame length	6000mm
Min/Max timber dimension	70mm x 30mm/140mm x 45mm
Working height	870mm
Machine mass (kg, lb)	1825kg
Power requirement	415V, 20amp, 3 phase neutral & earth
Air requirement	800L/min @ 6.9 bar



Side view





With Semi Automated centre gun



With Fully Automated centre gun



Raked Wall Extruder

USED FOR

The Raked Wall Extruder is designed to assemble and simplify the process of making raking wall frames. It can also produce common wall frames, making the Raked Wall Extruder a Spida all rounder

FEATURES

- 4-axis
- Four gun mounted brackets
- Stick guns only
- Height adjustable nail gun and clamp guarding
- Ergonomic clamp operating system allows for two handed freedom for operators to locate studs and frame while clamping
- Automated wall height
- Automated gun height
- Two handed operation safety circuit 24" industrial touch screen

OPTIONS

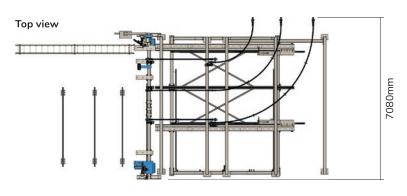
- Left or right hand side adjustable
- Outfeed conveyor
- Transfer table for sub assembly
- Curved Stud Conveyor
- 3600mm frame height model available

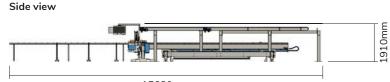


2008000

SPECIFICATIONS

Overall length, width, height	15680mm x 7080mm x 1910mm
Min/Max frame height	1600mm/6000mm
Min/Max frame length	up to 6000mm
Min/Max nail	70mm/90mm
Min/Max timber dimension	190 x 45mm
Max raking angle	45°
Working height	950mm
SWL	1000kg
Machine mass	6500kg
Operational db	90dB
Electrical requirement	240V, 25amp, 1 phase
Air requirement	125L/min @ 8 bar





15680mm



Component Nailer

USED FOR

The Component Nailer is designed to accurately nail timber components together before frame assembly. The nailer will clamp and nail one nog at a time onto a stud as required.

FEATURES

- Caters from 70mm to 90mm timber
- Nog clamps keep operator hands out of nailing area
- Safety isolation of gun firing on clamps to make sure timber is present

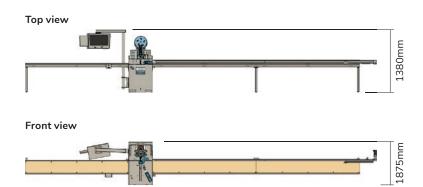
OPTIONS

• Left and right hand configurations



Overall length, width, height	9680mm x 1300mm x 1875mm
Min/Max nail	Depends on gun supplied
Min/Max timber dimension	70mm x 35mm/90mm x 45mm
Min/Max feed lengths	4165mm stud/4990 nog
Working height	925mm
Machine mass	1400kg
Blade (dia.,bore, #teeth)	3.8mm, Ø450, Ø30 bore, 66 Teeth
Blade motor	7.5hp
Cutting envelope	90 x 45mm
Electrical requirement	415V, 32amp, 3 phase neutral & earth
Air requirement	480L/Min @ 6.9bar

180A900



9680mm



Nocking Station

USED FOR

This machine is ideally suited to the manufacture of walls with a single row of straight noggins.

NOGGIN NAILER MODULE

- One automated nail gun
- Overhead timber clamp
- Movable carriage to nog 1.8 to 3.6 studs

POP-UP SAW MODULE

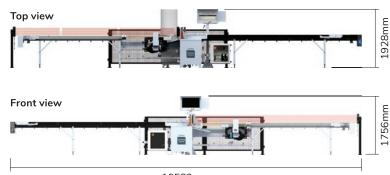
- 5.6kW drive motor size
- 460mm blade size
- Proximity sensor on in-feed side
- Emergency stop for total shutdown of complete system
- Solid cast construction

FEATURES

Dust extractor

SPECIFICATIONS

Overall length, width, height	10613mm x 1972mm x 1750mm
Min/Max nail	Depends on gun supplied
Min/Max timber dimension	70mm x 35mm/90mm x 45mm
Min/Max feed lengths	3971mm stud/4466 nog
Working height	870mm
Machine mass	1600kg
Blade (dia.,bore, #teeth)	3.8mm, Ø450, Ø30 bore, 66 Teeth
Blade motor	7.5hp
Cutting envelope	90 x 45mm
Electrical requirement	415V, 32amp, 3 phase neutral & earth
Air requirement	480L/Min @ 6.9bar



10583mm



176A900



Stud Extruder

USED FOR

The assembly of C, L & U studs along with the nailing of fireblocks to studs.

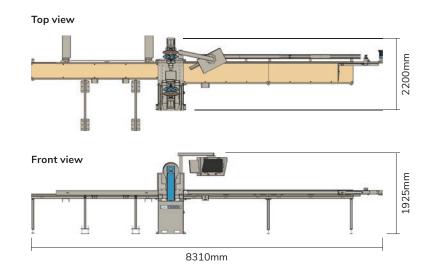
FEATURES

- Nail C, L & U stud assemblies, double & triple studs
- Information on length and configurations sent from detailer to computer
- Operator prompted by touch screen computer, places pre-cut timber in C or L configuration
- Studs are progressed through nailer and automatically nailed at specified nail centres
- Studs up to 3600mm long can be nailed
- 24" industrial touch screen



SPECIFICATIONS	
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Overall length, width, height	8310mm x 2200mm x 1925mm
Max stud length	3600mm
Max nog/block length	555mm
Min/Max timber dimension	190mm x 45mm
Working height	915mm
Machine mass	1300kg
Operational db	90dB
Electrical requirement	240V, 10amp, 1 phase
Air requirement	60L/min @ 8 bar





3 Head Nog Nailer

USED FOR

The 3 Head Nog Nailer is designed to accurately nail timber components together before frame assembly. The nailer will clamp and nail up to three nogs/blocks onto a stud in one action.

FEATURES

- Two hand control for maximum operator safety
- Safety isolation of gun firing on clamps to make sure timber is present
- One step operation for maximum efficiency
- Front shield installed for added
- safety and protection for everyone in the factory environment
- Adjustable for 70mm & 90mm timber
- Individual gun isolation
- Pneumatic braking of trolley position

OPTIONS

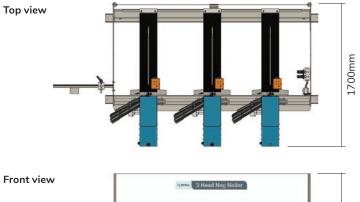
- Left or right hand configurations
- Left or right adjustable stud stop

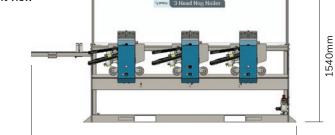


1710000

SPE	CIFI	CAT	ONS
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Overall length, width, height	2335mm x 1700mm x 1540mm
Max/Min nail	70mm/100mm
Max stud length	3600mm
Max nog/block length	565mm
Min/Max timber dimension	190mm x 45mm/140mm x 45mm
Working height	820mm
Machine mass	450kg
Operational db	90dB
Air requirement	120L/min @ 7-8 bar





2335mm



Conveyor Overframe & Pusher

USED FOR

An automated process to feed assembled stud/nog, stud/stud combinations to Wall Extruder from Nog Nailer or Component Nailer. This allows fast and accurate materials handling from one process to another to improve production efficiency.

FEATURES

- Automatically conveys assembled studs over framing line and presents them to the operator in the correct orientation
- Gravity roller descent to final position minimising exposure of staff to powered drives

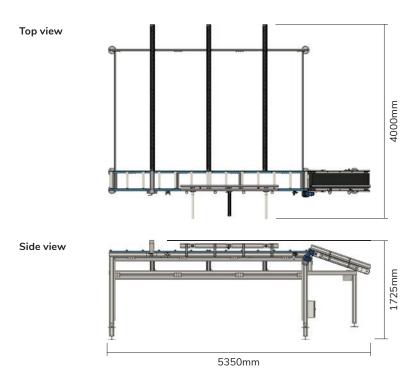
OPTIONS

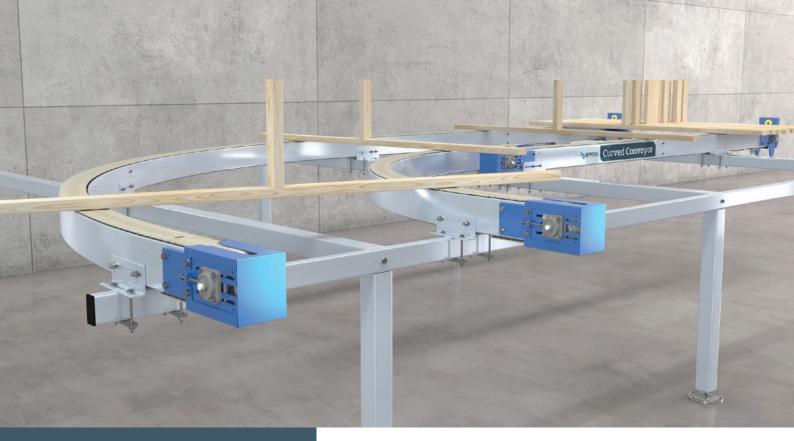
• Can be custom built to specific requirements

SPECIFICATIONS

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1303000-	1200-3870

5350mm x 4000mm x 1725mm
3600mm
1480mm
150kg
400kg
50dB
400-460V, 10amp 3 phase
20L/min @ 6 bar





Curved Conveyor

USED FOR

Used to transfer studs and minor subassemblies from the assembly point to the wall extruder operator, ready for insertion into the wall frame.

FEATURES

- Curved conveyor delivers pre-assembled components from the Component Nailer to the framing console, turning them 90 degree
- Conveyors mounted on sturdy steel bridge straddling the frame line conveyors, allowing continuous frame flow along the line
- Left or right hand configuration

OPTIONS

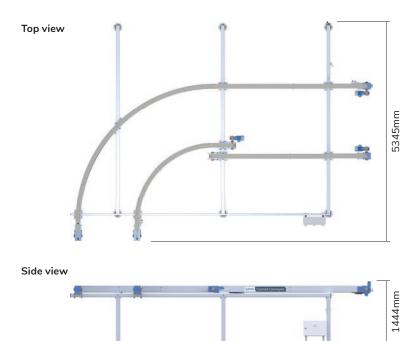
- Customised length
- 3rd rail for studs over 3600mm



179A903

SPECIFICATIONS	SP	PEC	IFI	CAT	10	NS
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Overall length, width, height	7105mm x 5345mm x 1444mm
Max stud length	3600mm
Working height	1530mm
SWL	500kg
Machine mass	750kg
Operational db	50dB
Electrical requirement	400V-460V, 16amp, 3 phase + neutral
Air requirement	15L/min @8 bar



7105mm



Roller Conveyor 9m

USED FOR

Supporting wall frames as they exit the wall extruder to final assembly area.

FEATURES

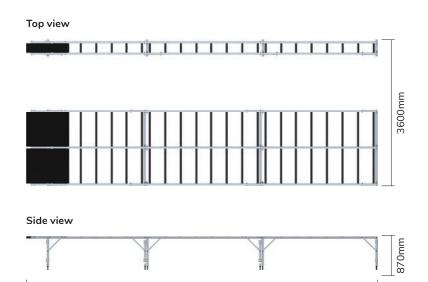
- No power required
- Supports frames as they are progressed through framer keeping level and true to framer
- Allows frames to roll down once cleared of framer to stacking or finishing area with no powered drives or sequencing required
- Conveyor span to suit requirements, two roller conveyors to cover a range of frame sizes

OPTIONS

- 6m, 9m, 12m, 15m or 18m
- Can be custom built to individual site requirements



SPECIFICATIONS	229A901
Overall length, width, height	9129mm, 3600mm, 870mm
Working height	870mm
SWL	1000kg
Machine mass	350kg



9129mm



Major Sub Assembly Table

USED FOR

The Major Sub Assembly Table is designed to allow for construction, assembly, and transport of major sub-components.

FEATURES

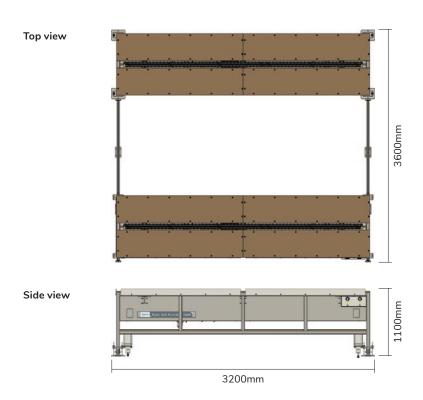
- Moveable table to allow for different height components
- Pop-up rollers to enable ease of transfer once completed
- Isle between tables allows operator access

OPTIONS

- Wider track to make higher components
- Longer tables to make wider sub components
- Normally paired with the Major Sub Component Infeed conveyor system



SPECIFICATIONS	1113000
Overall length, width, height	3200mm x 3600mm x 1100mm
Min/Max frame height	3600mm
Working height	1100mm
SWL	400kg
Machine mass	1000kg
Operational db	50dB
Air requirement	20L/min @ 6 bar





Major Sub Component Infeed

USED FOR

The Major Sub Component Infeed conveyor system is designed to transport and store pre-made timber assemblies. Conveyors store assemblies and pop up powered rollers transfer assemblies to the wall extruder operator.

FEATURES

- Conveyors to move components from build tables
- Pop up pins on conveyors keep assemblies separated
- Adjustable roller heights to move components in a vertical direction as required
- Pop up powered rollers
- Inside rollers fold down when not in use

OPTIONS

- Conveyor system available in both left or right configurations
- Conveyors available in different lengths as required
- Normally paired with the Major Sub Assembly Table

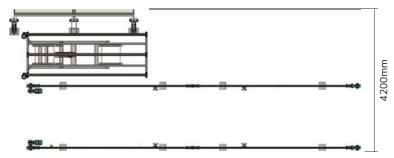


1005000

SPECIFICATIONS

3000mm (per bay) x 4200mm x 1100mm
3600mm
1100mm
400kg
2000kg
50dB
400V-460V, 10amp, 3 phase
50L/min @ 6 bar

Top view



Side view





Machine mass

Assembly Rotation Table

USED FOR

Directional change of Major Sub Assemblies. Castor balls provide support and multi-directional movement.

FEATURES

- Solid steel table •
- 32mm castor ball
- Height adjustable feet •

OPTIONS

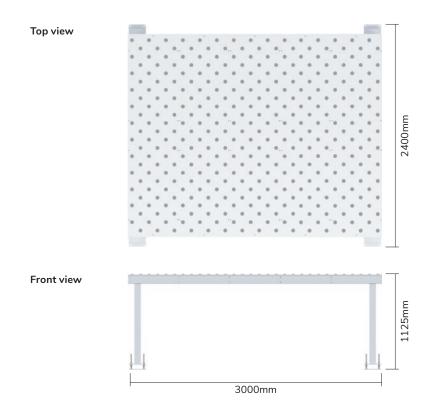
Length height and width are variable •



180kg

850kg

SPECIFICATIONS	1124000
Overall length, width, height	3000mm x 2400mm x 1125mm
Working height	1125mm
SWL	180kg





Wall Descent System

USED FOR

The Wall Descent System is designed to allow a wall frame to be supported level, out of the wall extruder, then dropped to allow the finished wall to roll down towards the outfeed system.

FEATURES

- No electrical power or automation required
- Supports frames as they are progressed through framer keeping level and true to framer
- Descent system can be left in elevated position and allow frames to push the previous frame through or the operatior can lower the outfeed to send a frame down as soon as finished in the framer.
- Useful for small frames and end of run
- More compact out feed than conventional outfeed

OPTIONS

• Can be custom built to suit individual site requirements



SPECIFICATIONS	1115000
Overall length, width, height	7000mm x 2500mm x 950mm
Working height	475mm - 950mm
SWL	1000kg
Machine mass	900kg
Operational db	50dB
Air requirement	Clean compressed air at 6 Bar



7000mm



Chain Conveyor

USED FOR

Transporting of frames from framer to dispatch area allowing final assembly of door and window components into frames, eliminating manual handling of heavy frames.

FEATURES

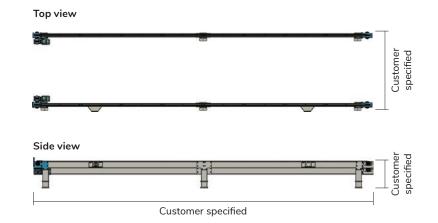
- Automatically conveys assembled wall frames from exit of framer to stacking area
- Low speed and nonpositive drive allows drive to continue running
- E-stops fitted every 4000mm on one side only, can be customised to suit site requirements

OPTIONS

• Can be custom built to suit individual site requirements



SPECIFICATIONS	1010000
Overall length, width, height	Customer specified
Working height	Customer specified
Machine mass	1000kg
Operational db	50dB
Electrical requirement	440-460V, 16amp, 3 phase





Straight Chain Conveyor

USED FOR

This is for the outfeed on any of the framing machines.

FEATURES

- Flip up stops on the end to stop the walls being driven off the end unexpectedly
- Start/stop stations at each end
- Typical heavy duty construction

OPTIONS

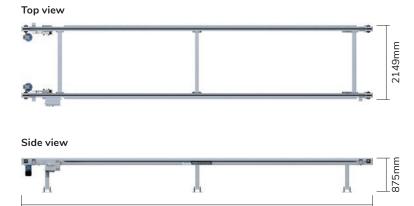
• 6m, 9m or 15m



209A900

SPECIFICATIONS	;
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Overall length, width, height	9000mm x 2149mm x 875mm
Working height	875mm
SWL	1000kg
Machine mass	750kg
Electrical requirement	415V, 10amp, 3 phase neutral & earth



9000mm



Wall Stacker

USED FOR

Automated lifting, moving and stacking of finished wall frame sections at the end of a nailing line.

FEATURES

- Automated lifting and stacking of • frames eliminates operator fatigue and lifting injuries
- Centering positioning reversible drive • to centre the bundle as you stack
- Designed to handle 200kg frames • with ease
- Operator control station removed from lifting area
- Side chains to progress frame over the • lifting device
- Stopper pins on infeed side of machine • to prevent the next frame entering the lifting area
- Sensors to prevent overrun
- Toothed safety mechanism on lifting ram to prevent lifter falling should the hydraulics fail

OPTIONS

- The Wall Stacker can be made to match your existing outfeed height, common sizes vary from 470mm -870mm
- Ideally setup with a Chain Conveyor • on the infeed and a Wall Stacker on the outfeed

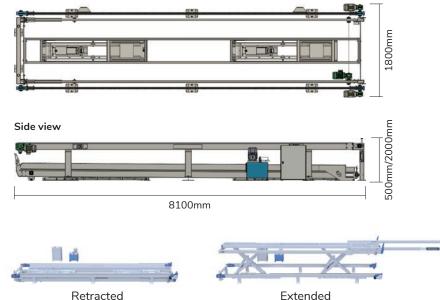


1402000

SPECIFICATIONS

Overall length, width, height	8100mm x 1800mm x 2000mm
Min/Max frame height	2000mm/3600mm
Max frame length	6000mm
Working height	500mm - 2000mm
SWL	1000kg
Machine mass	1800kg
Operational db	50dB
Electrical requirement	400-460V, 10amp, 3 phase + neutral
Air requirement	10L/min @ 6 bar





Extended



Frame Hook

USED FOR

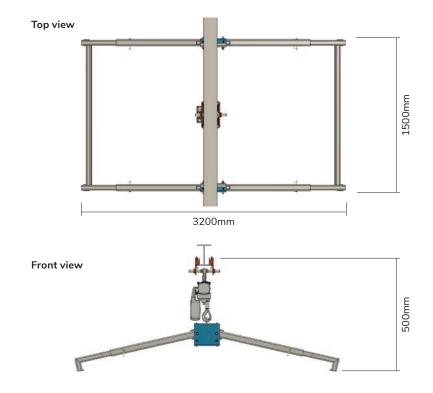
The Frame Hook is designed to lift and move completed frames.

FEATURES

- Electric chain hoist
- I beam runners
- Adjustable clamp arms for different size frames



Overall length, width, height	3200mm x 1500mm x 500mm
Min/Max frame height	2000mm/3600mm
Max frame length	6000mm
SWL	1000kg
Machine mass	350kg
Operational db	50dB
Electrical requirement	240V, 10amp, 1 phase





Lift Finishing Table

USED FOR

The Lift Finishing Table is designed to hold wall frame assemblies while they are finished, and then transport the frames onto the next stage as required

FEATURES

- Hydraulic scissor lift for height
- adjustment
- Flat table sections for major sub assembly and fixing
- Pop-up roll sections for ejection of finished frame

OPTIONS

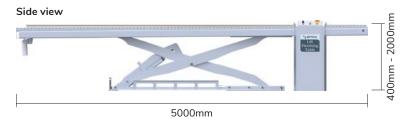
- End eject (Flow rails)
- Side eject (Standard rollers)



5000mm x 2600mm x 2000mm
2000mm/3600mm
6000mm
1000kg
950kg
50dB
400-460V, 10amp, 3 phase + neutral
20L/min @ 6 bar

Top view







Finishing Table

USED FOR

Dedicated table for squaring of wall frames prior to the final assembly. This table is used for the inclusion of subassemblies and fitment of any bracing requirements.

FEATURES

- Squares the frame
- Fast and easy to use
- Pneumatic roller ejection system
- Raised edges square frame
- Storage drawers for consumables
- Storage for angle bracing
- Storage for steel nogs

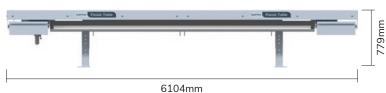


SPECIFICATIONS	163A900
Overall length, width, height	6104mm x 3104mm x 779mm
Min/Max frame height	3000mm
Max frame length	6000mm
Working height	779mm
Machine mass	1420kg











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Wall Stacker Outfeed

USED FOR

The Wall Stacker Outfeed is designed as a station to accumulate finished frames as a bundle/stack, then convey the bundle over the forklift pockets for loading.

FEATURES

- Reversible drive to centering positioning of stack while building and centering of stack when ready for lifting with forklift
- Guide rails prevent forks from catching • under conveyors

OPTIONS

Can be custom built to individual site • requirements



SPECIFICATIONS	1004000
Overall length, width, height	12500mm x 1800mm x 300mm
Working height	300mm
SWL	5000kg
Machine mass	1050kg
Operational db	50dB
Electrical requirement	400-460V, 10amp, 3 phase + neutral







Build Table

USED FOR

Squares the wall frame before attaching sheathing.

FEATURES

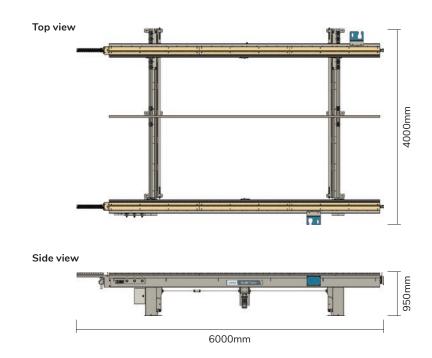
• Walk through gates can be used to assemble frames and move from one side of machine to other

OPTIONS

• 750mm height



SPECIFICATIONS	1721-6000-950-3600
Overall length, width, height	6000mm x 4000mm x 950mm
Min/Max frame height	1600mm/3600mm
Min/Max frame length	0mm/6000mm
Working height	950mm
SWL	1000kg
Machine mass	1500kg
Operational db	50dB
Electrical requirement	400-460V, 10amp, 3 phase
Air requirement	15L/min @ 8 bar





Sheather

USED FOR

Automatically nails sheathing off with a one-touch function. This machine works at the touch of a switch, shooting 4 nails per second, clamping and straightening studs from the underside, the Sheather is a must have for your wall line.

FEATURES

- Touch screen control
- Automatically clamps and straightens studs during fixing
- Four high speed nail guns
- Guns change angle on sheathing joins, both horizontal and vertical
- Wall frame is moved under fixed gun bridge
- Fully automated, CNC machine
- 24" industrial touch screen

OPTIONS

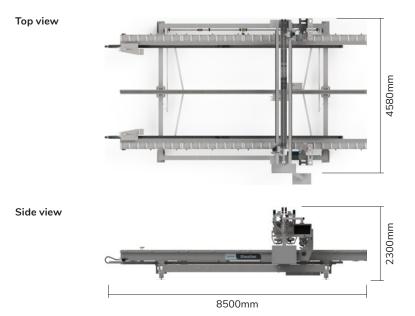
- Cutting bridge
- Additional gun bridge
- Perfectly paired with Build Table



1714000

SPECIFICATIONS

Overall length, width, height	8500mm x 4580mm x 2300mm
Min/Max frame height	3600mm
Max frame length	6000mm
Min/Max nail	50mm/90mm
Min/Max timber dimensions	190x45mm
Working height	950mm
SWL	1000kg
Machine mass	4600kg
Operational db	90dB
Electrical requirement	400-460V, 10amp, 3 phase
Air requirement	250L/min @ 8 bar





Butterfly Table – Single

USED FOR

The Butterfly Table – Single will allow the standing of prefabricated wall frames with safety and efficiency. Can also be used as a build table with clamping options available.

FEATURES

• One fixed table

OPTIONS

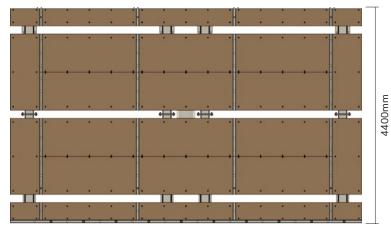
- Modular design, multiple tables can be joined to extend tables
- Clamping accessories, to use as build table
- Chains in table

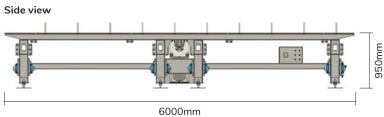


Overall length, width, height	6000mm x 4400mm x 950mm
Min/Max frame height	0mm/3600mm
Min/Max frame length	0mm/6000mm
SWL	1000kg
Machine mass	3000kg
Electrical requirement	400-460V, 25amp, 3 phase + neutral
Air requirement	50L/min @ 8 bar

1308000-ST

Top view







Butterfly Table

USED FOR

The full Butterfly Table will allow the safe flipping of prefabricated wall frames to enable fitout on both sides of the wall with safety and efficiency. Can also be used as a build table with clamping options available.

FEATURES

- One fixed table
- One floating table, to allow for different wall thicknesses
- Three flat top chains in fixed table for easy transport of walls onto and off table

OPTIONS

- Modular design, multiple tables can be joined to extend tables
- Clamping accessories, to use as build table
- Half table available, for standing walls
- Chains in table

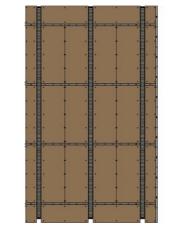


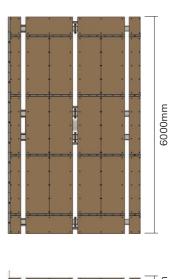
1308000-DT

SPECIFICATIONS

6000mm x 8800mm x 950mm
0mm/3600mm
0mm/6000mm
1000kg
6000kg
50dB
400-460V, 30amp, 3 phase + neutral
50L/min @ 8 bar

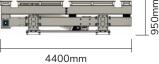
Top view





Side view





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







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







Component Trolley

USED FOR

Transport and storage of timber packs or components.

FEATURES

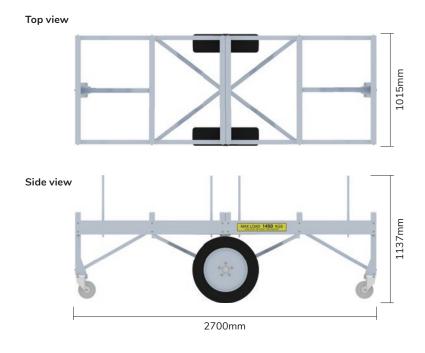
• Four removable retaining posts

OPTIONS

• Can be customised to suit customer requirements



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



230A900



Tree Trolley

USED FOR

Transport and storage of cut timber components.

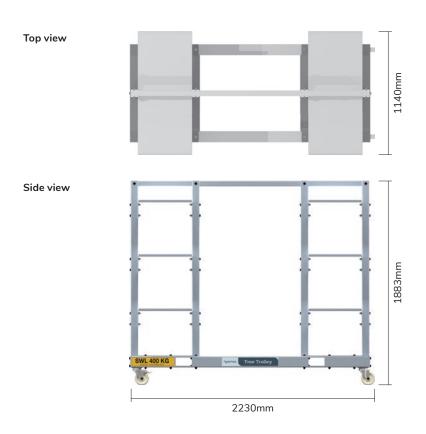
FEATURES

- 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





Triangle Trolley

USED FOR

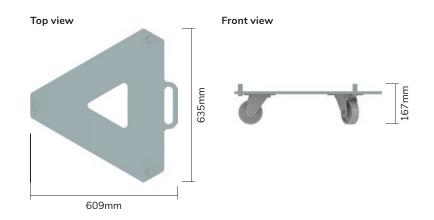
The transport and storage of complete trusses or wall frames. Move your completed product with ease and store off the ground for easy pick-up, strapping and transport.

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





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

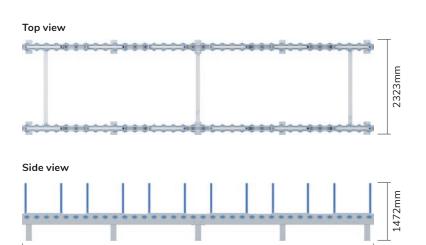
- Solid machined steel rollers
- Timber pack carriages with removable frontleg for easy loading
- Loadable by forklift
- Empty timber pack carriages are returned to the front of conveyor for next pack

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



9000mm

Notes	



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