

# GANTRY PRESS & FLO-JIG SYSTEM



## ADVANTAGES

- *Ideal system for small to medium truss plants.*
- *Versatile truss production with quick set up.*
- *Two handed operation for operator safety.*
- *Simple and robust construction.*
- *Clear floor space (no tracks).*

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# GANTRY PRESS & FLO-JIG SYSTEM

## Description:

The Gantry Press & Flo-Jig System is ideal for small to medium size truss plants. It is an efficient two man system which allows production output to be increased by the addition of operators and by adding a second jig. The Gantry Press & Flo-Jig System is versatile and very quick to set up, making it an ideal manufacturing system for the increasingly complex roof shapes of the modern home. Maximum access for timber trolleys is fundamental to this system, enabling placement of materials and finished trusses close to the jig, thereby reducing production times.

## Features:

### Gantry Press:

- Two handed operation ensures operator hands are never in the pressing area.
- Lightweight press reduces operator fatigue.
- Anti-tilt press head suspension prevents displacement of connectors and webs during pressing operation.
- Gantry is power driven with soft stop and soft start for easy control of press head movement.
- Press head is supported from a Gantry attached to the building, allowing maximum access to the Jig.
- Efficient hydraulics system ensures quiet, minimum maintenance operation.
- Simple robust construction.
- Clean floor space (no tracks).

### Standard Flo-Jig:

- Low rail height - for ease of operation and movement around jig.
- Able to press a large variety of trusses.
- Simple to use.
- Easy camber adjustment (no string line needed to set up).
- Flo-Jig: robust, stiff frame and box construction (truss shapes can be maintained even when webs are very tight).
- Tapes on base & apex rails for quick and accurate setup.
- Moving arms always remain square to bottom rail. Outer ends on castors to facilitate quick and easy movement.
- Flo-Thru pressing boxes allow press to move along truss chords without the need to move the press head in and out of boxes, significantly increasing productivity and reducing operator fatigue.
- Flo-Thru boxes provide a shelf enabling the bottom nail-plate to be placed prior to placement of timber, allowing top and bottom plates to be pressed simultaneously.

## Specifications:

### Press Details:

- Single press head - 30T (45T option).
- Platen size (top & bottom, WxD) - 310 x 180mm.
- Opening between top & bottom platen - 156mm.
- Hydraulic power pack motor - 7.5kW.
- Maximum hydraulic pressure - 19,100 kPa (2,700 psi).
- Power requirements - 3 phase, 415 V, 40A .
- Overall equipment dimensions - 6000mm wide, length depends on length of overhead rails.

### Gantry travelling frame:

- Roof mounted support structure and rails to be provided by the customer.
- I-Beam length (traverse rail) - 6m.
- Length of travel to suit length of Flo-Jig bottom chord rail.
- Rail centres - 5m.
- Adjustable clearance height under Gantry.
- Trolley motor rating - 0.18kW.
- Travel speed - 24m/min.

### Standard Flo-Jig Details:

- Flo-Jig bottom chord rail length - 12m or 16m.
- Flo-Jig apex rail height - 4m.
- Flo-Jig moving arms:  
2 x 2.0m, 2 x 2.5m (12 Flo-Box Jig).
- Flo-Jig moving arms:  
2 x 2.0m, 2 x 2.5m, 2 x 3.0m (15 Flo-Box Jig).
- Flo-Box details:  
12 or 15 Flo-Boxes in a standard set.  
A set of 12 Flo-Boxes consists of 2 heel,  
6 universal, 1 apex, 3 splice.  
A set of 15 Flo-Boxes consists of 1 apex, 2 heel,  
4 splice and 8 universal.

### Truss Information:

- Capable of pressing most trusses that have all connections on external chords (see below for exceptions).
- The number of panel points is limited to either 12 or 15 with a standard jig, but more can be accommodated with portable nail trays.
- Truss span and apex height:  
Spans on a standard jig can be up to 12m or 16m depending on the jig, with up to 4m apex height.  
Custom design jigs can be supplied if necessary.
- Maximum timber width -  
240mm bottom chord, 270mm top chord (20-27.5°).

### Options:

- 45T press head.
- Magnetic Flo-Jig option.
- Flo-jig with pneumatic clamping.
- Standard Flo-Jig base and apex rail extensions to suit customer's requirements.
- Standard Flo-Jig moving apex rail.
- Laser projection system for positioning of Flo-Boxes, timber and connectors.
- Bottom chord press.

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