

HydraPRESS



ADVANTAGES

- *Multiple press heads.*
- *Quick pressing time.*
- *Extremely fast set up time.*
- *Suitable for short production runs.*
- *Automatic Nail Plate feeders.*
- *Retractable press heads.*
- *Computerised positioning of press head, timber stop, camber adjustment and plate location.*

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HydraPRESS

Description:

The HydraPRESS combines the rapid pressing cycle of multi head presses, with the speed and ease of computer driven setup.

The HydraPRESS has been developed for short production runs and is capable of efficiently manufacturing many of the more complex truss shapes for which conventional multi-head presses have not been considered suitable. As the press head positioning, timber stop, camber adjustment and plate location are all automatically positioned the HydraPRESS can be efficient with production runs of little as 1 or 2 trusses.

The production cycle time is also improved compared with other multi heads, as the HydraPRESS incorporates nail plate placement. Typically, assembly cycle time for an A Type truss, including placing of timber and unloading finished truss, is 50 seconds and set up time 15 to 30 seconds. The flow of material to the press and the removal of finished trusses will determine the overall productivity of the machine.

Features:

Jig:

- Fast set-up (15 - 30 seconds).
Automated:-
 - Head positioning
 - Head angulation
 - Camber adjustment
 - Plate location
- Clear working area.
- Walk-through design.
- Movable operator console with interlocked controls, air and hydraulic lines contained within cat-track.
- Pneumatic timber clamps.

Press:

- Multiple press heads, all joints pressed simultaneously.
- Press heads not required may be isolated and set to one end of the jig.
- Very fast cycle time.
- Automatic nail plate feeders:
- Anti-tilt press head suspension prevents displacement of connectors and webs during pressing operation.
- Press heads retract following pressing allowing operators to easily lift the finished truss clear of the jig.
- Emergency stop button on each press head.

Specifications:

- Standard Jig dimensions:
Length 15400mm, Width 5135mm, Height 1120mm.

Press details:

- Thirteen, 26 tonne press heads.
- Automatic nail plate feeders on all heads.
- Power requirements: 3 Phase and neutral, 415 Volt, 30A.
- Air requirements: 850 kPa, 120 psi (minimum).
- Press hydraulic power pack motor: 11 kW.
- Maximum operating pressure: 165.5 bar (2400 PSI).
- Press head throat opening (between top and bottom platens) - 95mm.
- Press platen size (top and bottom - width x depth): 300 x 250mm.

Jig details:

14m heavy duty base rail,
Six movable arms, maximum apex 3880mm
Seven bottom chord heads with camber adjustment.

Tooling details:

All non heel heads have 2 chord clamps.
2 x pneumatic bottom chord clamps.
4 x camlocks.
4 x heel clamps.

Truss information:

- Maximum span of truss: 14m (or customer specified).
- Maximum height of truss: 3880mm.
- Trusses with internal plates cannot be pressed.
- Minimum distance between pressing points is 550mm.

Options:

- Gantry Press allows larger plates, internal joints and plates that are close together to be pressed.

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