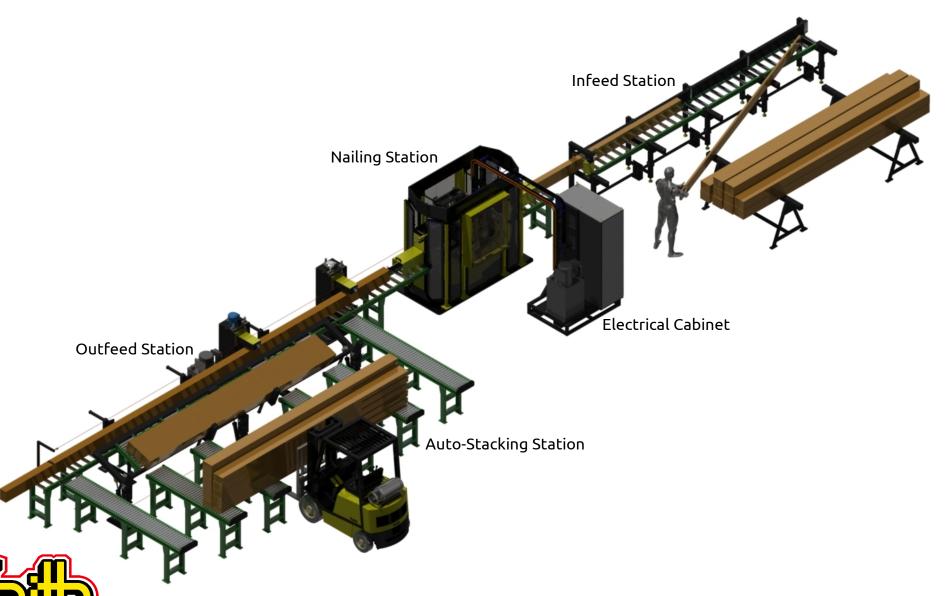
Column Laminating Machine FEI-6000 CM



Column Laminating Machine

FEI-6000 CM

Issues Associated with the Manufacturing of Buildings

Availability and cost of large dimensionally-sized building lumber
Labor costs related to manual construction even with the use of jigs and fixtures
Quality from manufactured columns using commercially available lumber relating to straightness
Inadequate load tolerances caused by inconsistencies from manual manufacturing processes

How To Solve These Issues

Increase supply by assembling (or laminating) columns using commercially available lumber Reduce costs by stocking commercially available standard lumber sizes Reduce labor costs by;

Increasing operator throughput by use of more automation Eliminating rework of incorrectly manufactured columns

Increase quality with precise and repeatable nail patterns



Column Laminating Machine FEI-6000 CM

Machine Features & Benefits

- Intuitive Operator Interface (HMI)
 Reduces operator training labor costs
- Dynamically adjustable nailing pattern
 Reduces nail consumption while achieving engineered load specifications
- Hydraulically actuated lumber compression rollers
 Improves the straightness resulting in a higher quality of finished columns
- Servo controlled linear feed
 Provides flexible and accurate nailing patterns, increasing quality
- Fully enclosed machine safety guarding Inhibits work-related accidents and injuries
- Finished column auto stack and bundling Reduces labor and increases machine throughput
- Rigid, heavy-duty mild steel construction
 Increase machine longevity while reducing the overall cost
- Remote connectivity for machine diagnostic support Allows for quick, responsive service – keeping your machine running
- Quick and easy column size change-over Increases operator efficiency resulting in greater machine throughput







Column Laminating Machine

FEI-6000 CM

Machine Capabilities

Infeed Capacities

2" x 6", 8" or 10" pressure-treated commercially available lumber

Outfeed Capacities

Minimum 8 foot laminated column

Maximum laminated column length is limited only by building size constraints

Columns can be laminated between 3 to 5 layers thick

Processing speed of 11 feet per minute on average (with 9" nailing pattern)

Nailing Station

Utilizes four independently adjustable pneumatic nailing guns

Adjustable across board width (up/down) and distance from board (in/out)

High-powered clamping rollers correcting lumber inconsistencies

Lumber absence error detection

Optionally; low nail conditions can be detected by manually loaded guns

Auto-Stacking Station

Fully automatic stacking of up to 6 columns

Maximum bundle width of 8 stacks

Safety strobe light and audible alarm while in motion



Column Laminating Machine

FEI-6000 CM



Machine Specifications

Machine Footprint; 14 ft x 67 ft

- Infeed Station; 13 ft x 24 ft
- Nailing Station; 5 ft x 11 ft
- Outfeed Station; 14 ft x 33 ft
- Electrical Cabinet; 4 ft x 6 ft

Power Requirements

• 460v AC 3-phase @ 100 Amps

Pneumatic Requirements

- 90 PSI @ 25 CFM
 - * Depends on nail gun usage





Column Laminating Machine FEI-6000 CM





Controls, Safety Devices, Interface Allen-Bradley

Conveyors Hytrol

Hydraulics

Parker

Nail Guns

Bostitch

Pneumatics

Festo

Servos

Exlar









