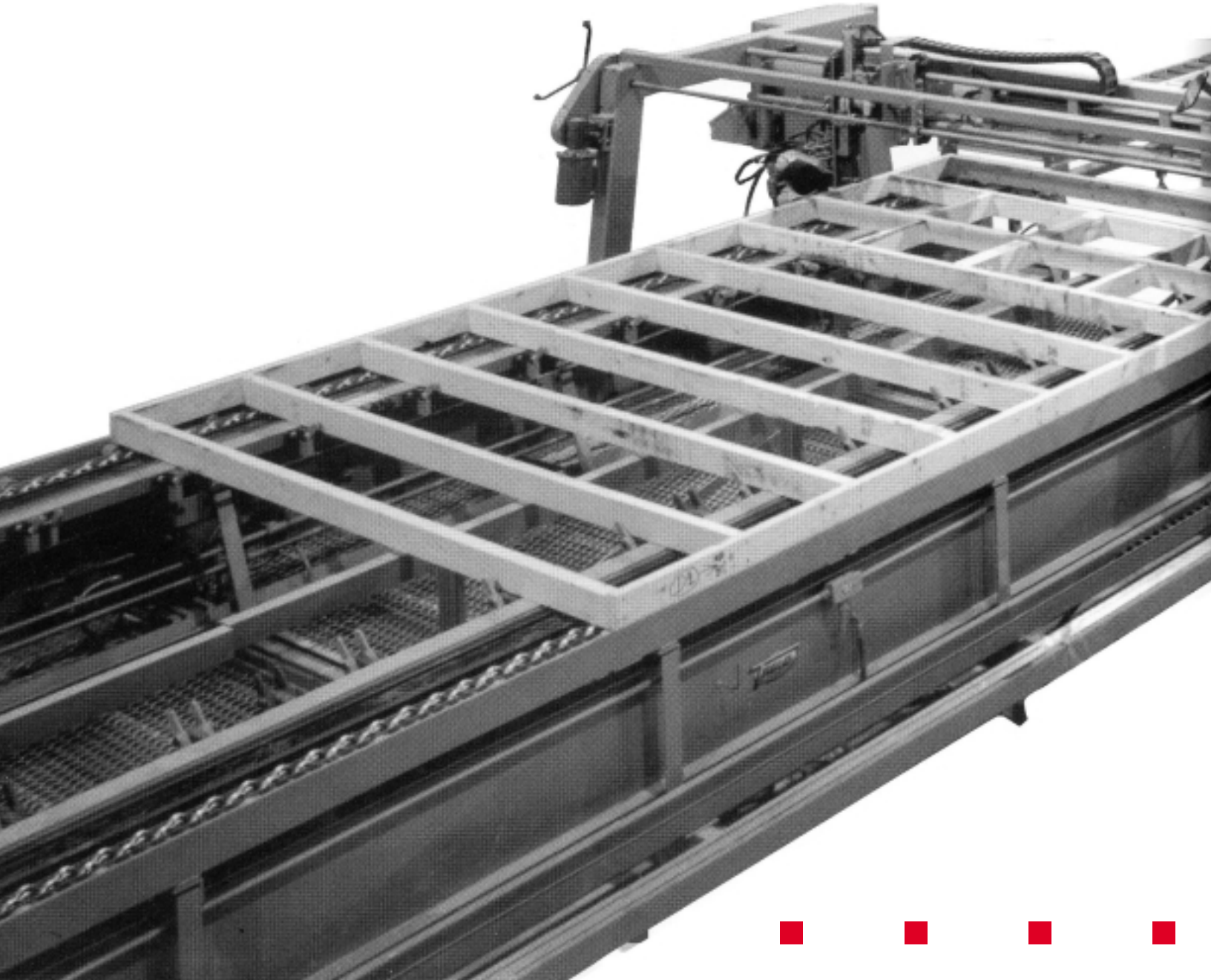


# ***TRIAD GEN II***

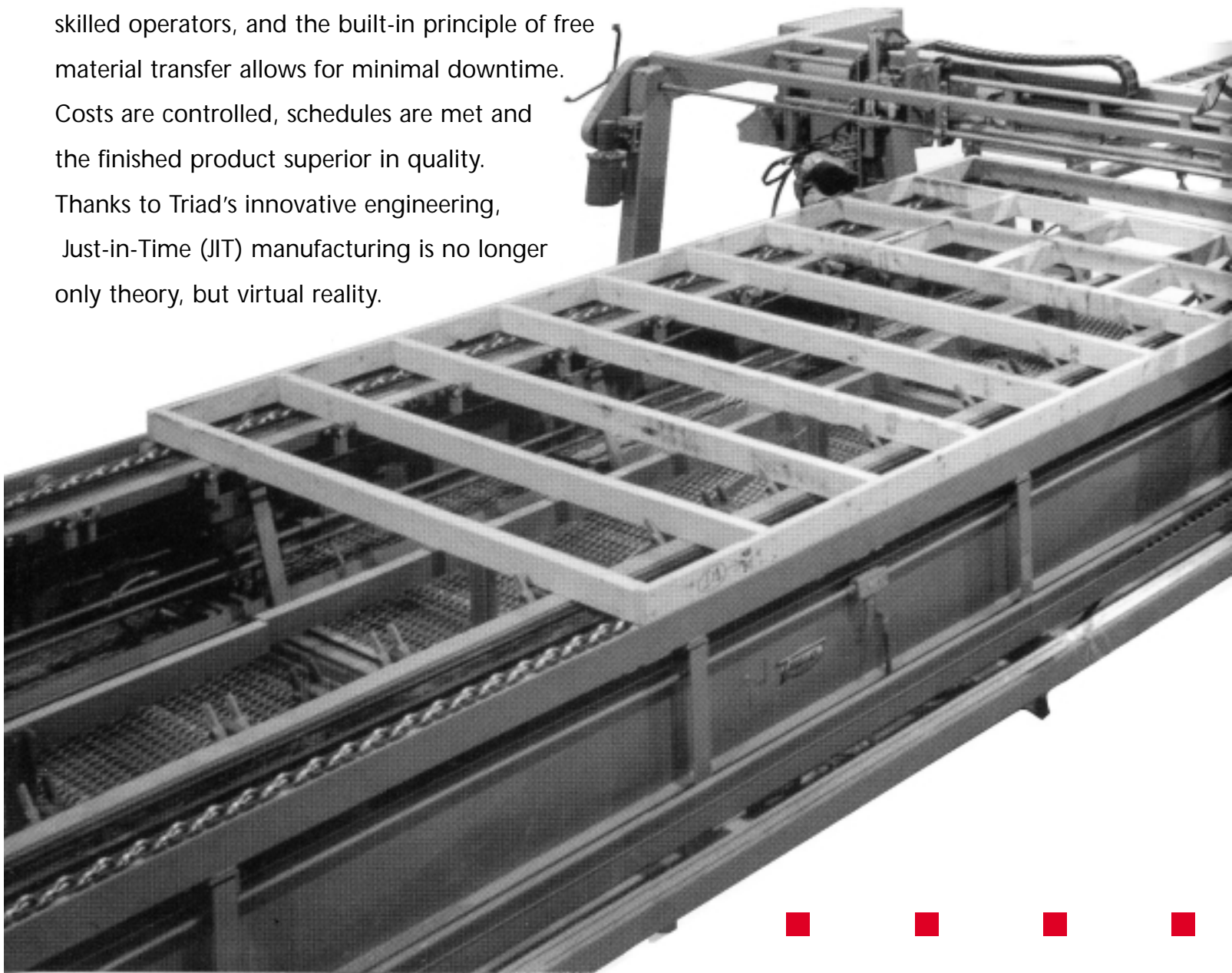
## ***AUTOMATED WALL PANEL SYSTEM***

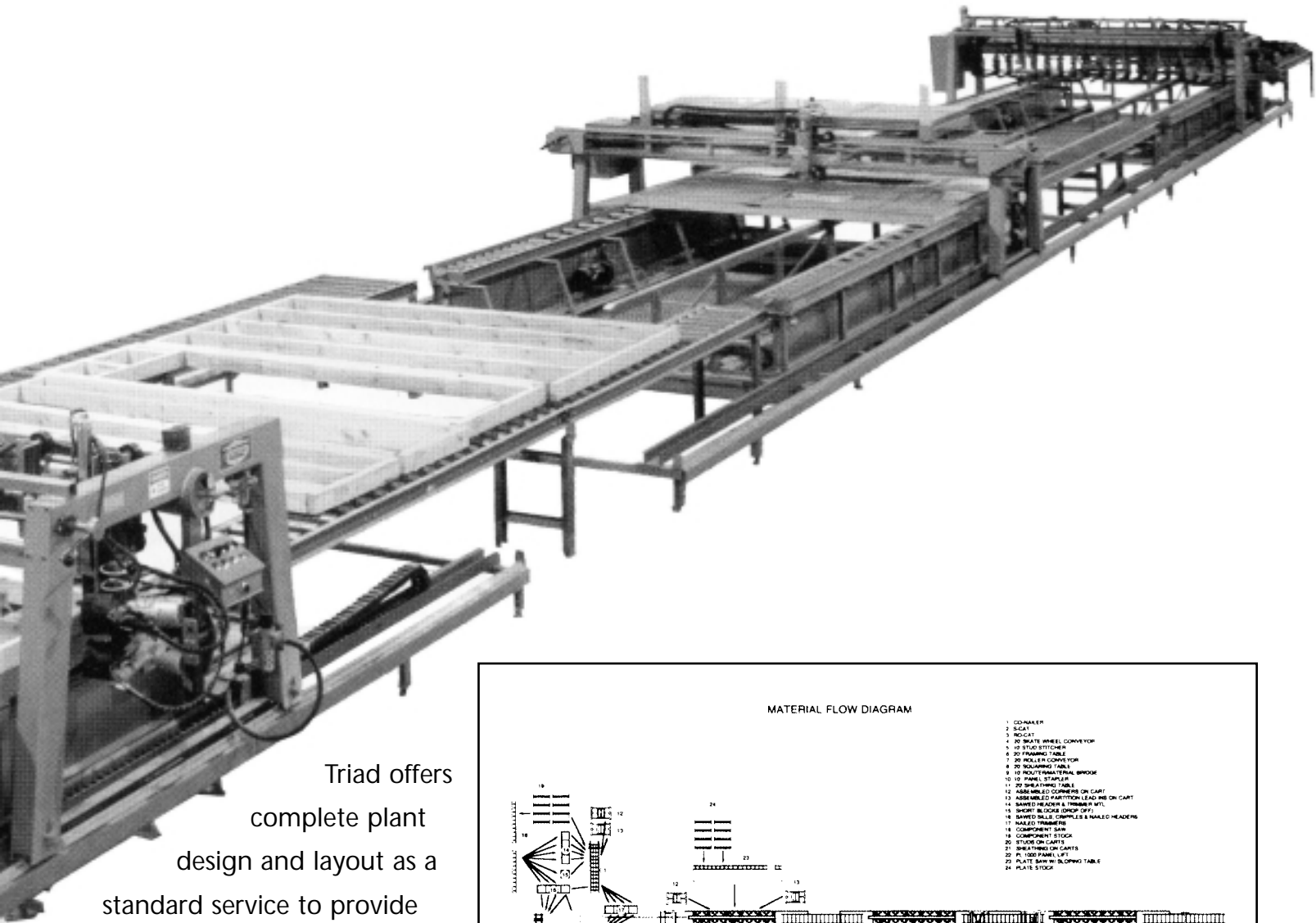
- Increased Production with Reduced Labor Cost
- Greater Building Profitability
- Proven Return on Investment
- Designed for Precision Building
- Easily Adapted for High Run Production or Custom Building



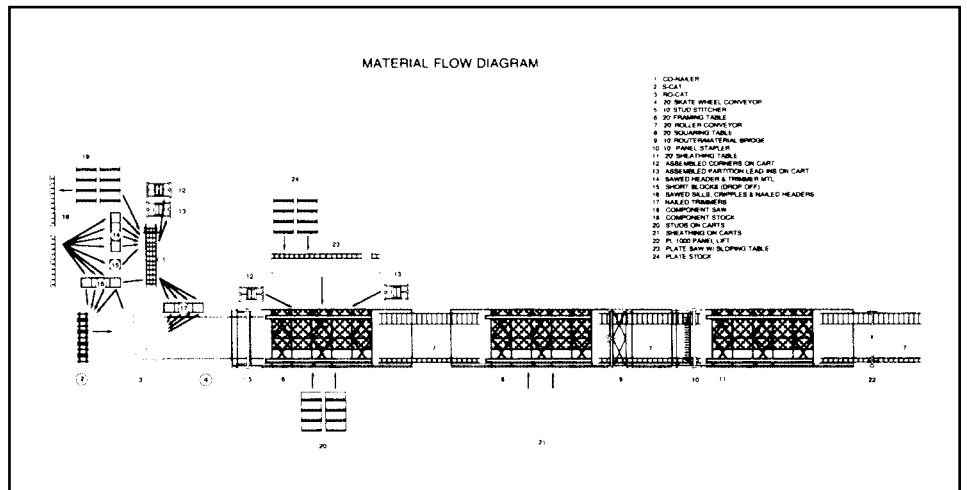
# *Triad's Gen II Automated Wall Panel System; Square, Quality Walls Built Quick & Easy.*

**D**esigned completely with the builders needs in mind, Triad's Gen II Wall Panel System is more than just machinery, it's a tuned, integrated system. As the forerunner in the wall panel industry, Triad knows what you want; high production, reduced costs and minimal lead-time. In today's highly competitive housing market, these factors are absolutely essential for the survival of the builder and developer. Triad can help you not only keep competitive, but stay well ahead of the competition. The advantages to utilizing a wall panel system are limitless. Estimates are now fast and precise because you know up front what your exact material usage, labor costs and build time will be. Precise, square walls are build from start to finish in just minutes using unskilled and semi-skilled operators, and the built-in principle of free material transfer allows for minimal downtime. Costs are controlled, schedules are met and the finished product superior in quality. Thanks to Triad's innovative engineering, Just-in-Time (JIT) manufacturing is no longer only theory, but virtual reality.





Triad offers complete plant design and layout as a standard service to provide you with optimum floor space usage. Through years of experience, our expert staff is able to accurately pinpoint your equipment needs by establishing material flow, workforce requirements and finished product output data. With Triad's expertise in plant development, we work with you as a team to assure you a more efficient manufacturing solution.





In the beginning, the economics were quite simple. If the building process could be moved into a controlled plant environment, many benefits would be realized, Elimination of weather problems, decreased labor and insurance costs, less vandalism and material damage, faster on-site erection, greater finished product quality, year-round production and a much easier solution to managing the entire production process.

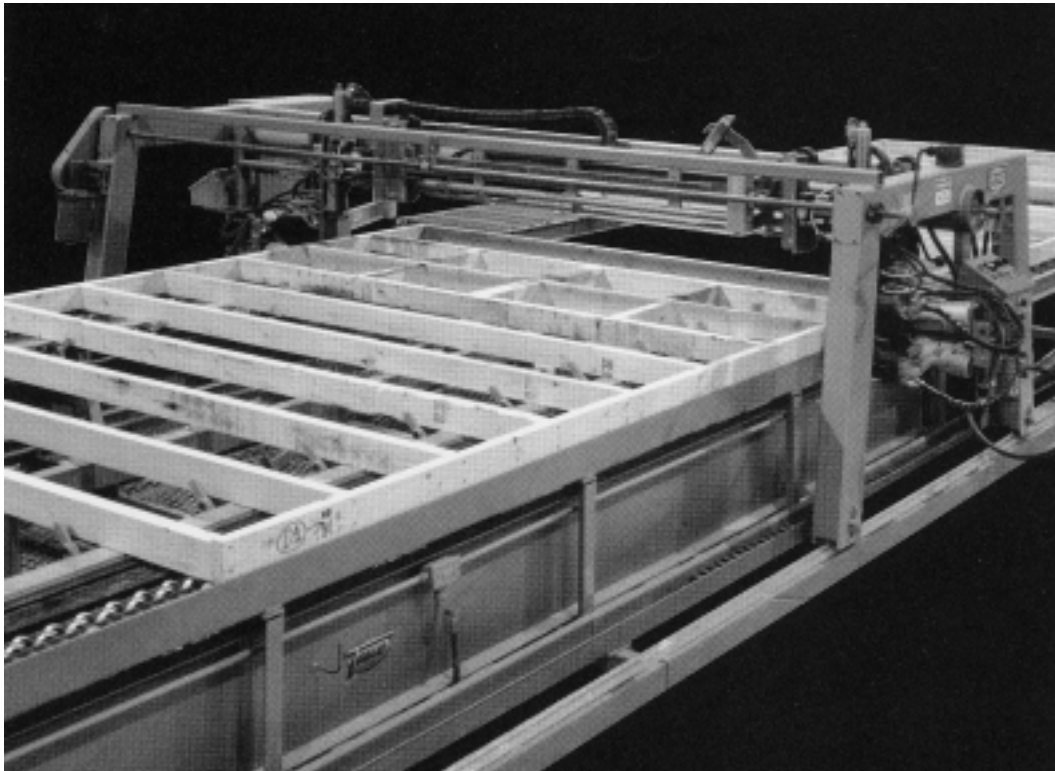
This concept was born in the 1950's out of the necessity to produce more linear feet of interior and exterior stud walls utilizing fewer job site personnel. Triad, the pioneering leader in wall panel manufacturing and development, has now taken this simple idea and created a synergistic approach to panelized home building. Automation on open panel or closed panel systems is now offered for every aspect of the home building industry.

The 90's builder has come full circle in realizing the obvious benefits as well as drastically increased profitability with the implementation of a wall building system. Just as prefabricated roof trusses become the norm in the building industry, wall panelization has also rapidly become an efficient and cost effective way to build homes today and in the future. With increased competition and soaring labor costs, Triad's Gen II Wall Panel Line can provide you with a truly automated & profitable way of home building.

With over 40 years of precision engineering and professional technical assistance, Triad offers complete custom plant layout and design allowing you optimum utilization of personnel and material flow. The services then continue with professional plant set-up and comprehensive personnel training, as well as streamlined factory service and support. All of this combined provides perhaps one of the best investments ever made.

**The Triad Gen II Wall Panel Line. Quality Without Compromise.**

# FRAMING STATION



**T**riad's Framing Station is made up of two basic components: the Gen II Framing Table and the Gen II Stud Stitcher Bridge. The Gen II Framing Table is custom built from 12' to 80' long and is provided in widths from 3' 9" to 16'. Studs and plates are placed between cast iron, counter balanced stud locators and with just a push of a button, the width adjustment clamp is activated to clamp and square all the components. Next, the operator guides the Stud Stitcher Bridge over the clamped wall and aligns the laser pointer with the stud. The Stud Stitcher then clamps the stud horizontally and vertically places four nails simultaneously in precisely the correct location, fastening both the plates and stud. The process is repeated by either utilizing the optional joystick control or by manual operation, moving the bridge down the line until the entire wall is fastened. The operator then presses the optional automatic return and the bridge returns to its park position while the operator rolls the completed wall section to the next station in line.

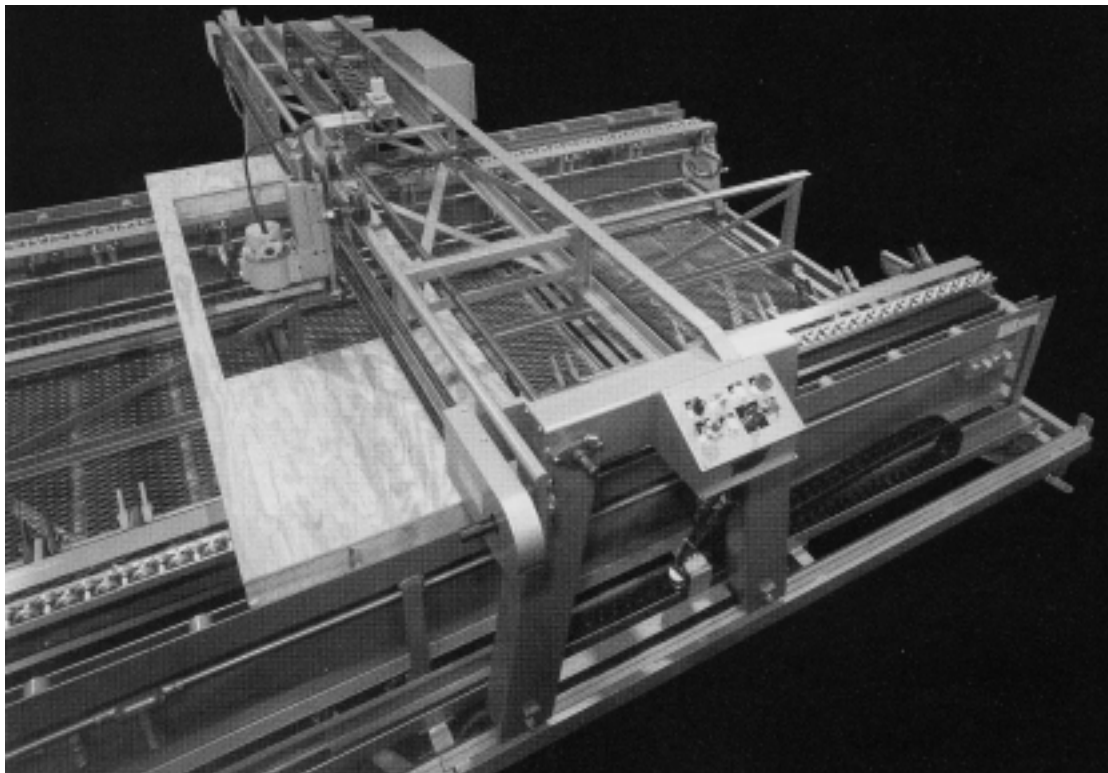
## ■ *Machine Efficiency*

- All bridge operations accomplished from a single control panel by a single operator
- Will operate on either 2x4 or 2x6 walls
- Automatic Sensor for 2 or 3 nail patterns

## ■ *Optional Features*

- Joystick operation for all framing functions
- Laser Pointer for safe, sure fastener locations
- Automatic Panel Conveyor
- Automatic Bridge Return to the park position

# ROUTING STATION



**T**riad's Routing Station is made up of two basic components: the Gen II Squaring Table and the Gen II Routing Bridge. The Gen II Table is designed to have an existing framed wall rolled into place which is then squared and power clamped. Sheathing is then placed on the framed wall either by hand or with the assistance of the optional Material Handler located on the Router Bridge. Once in position, the sheathing is simply pinned at the corners using hand held fastener tools. The operator then guides the Router Bridge to the desired opening location manually or with the optional joystick feature. A 3 1/4 H.P. router is turned on and plunges into the sheathing and is guided around opening perimeters by the hand crank or optional joystick. The guide on the router bit keeps the bit from overshooting. Upon completion of the routed opening, the operator disengages the router and then presses the optional automatic return selector, sending the Router Bridge back to its original parked position. The squared wall is now ready to roll onto the Sheathing Station.

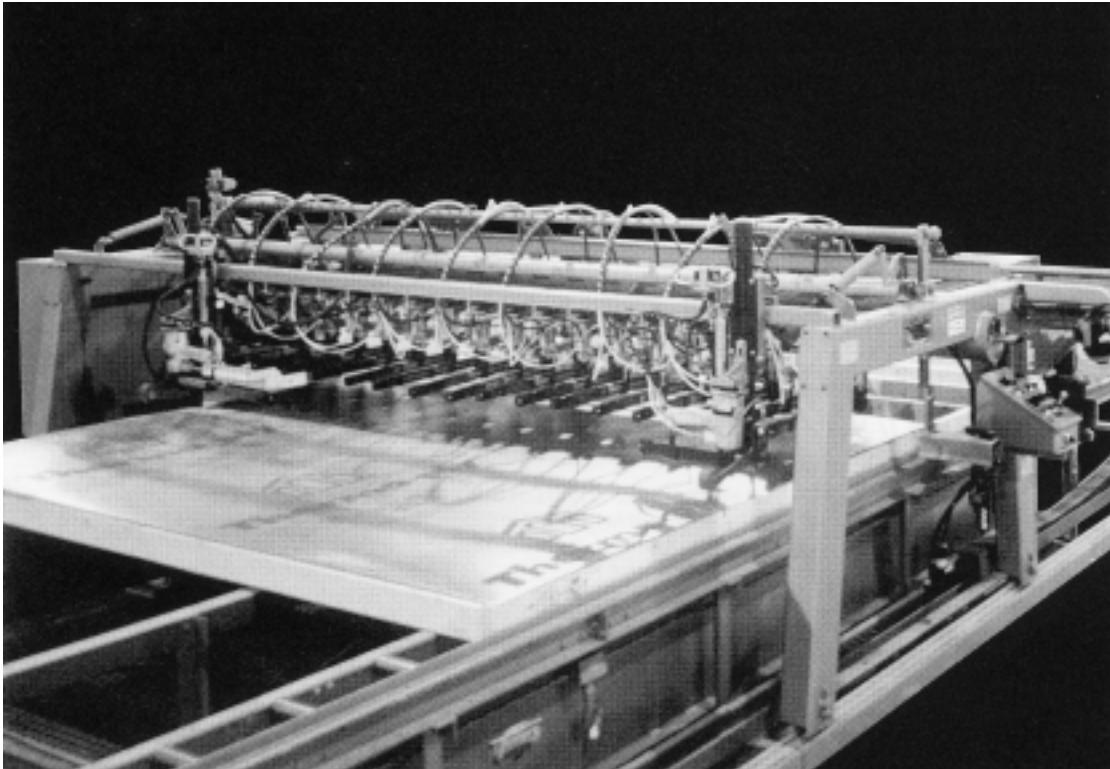
## ■ *Machine Efficiency*

- All Bridge operations, accomplished from a single control panel by a single operator
- Quick adjust stops for 2x4, 2x6, or 2x8 routing
- Rapid, effortless routing

## ■ *Optional Features*

- Joystick operates all functions
- Automatic Panel Conveyor
- Automatic Return to the park position
- Material Handler with reostat speed control allows faster operator placement of sheathing

# SHEATHING STATION



**T**riad's Sheathing Station is made up on two basic components: the Gen II Sheathing Table and the Gen II Panel Bridge. The Gen II Sheathing Table is designed to have an existing framed, squared and pinned wall rolled into place where the operator located it and power clamps it into position. The operator then guides the Panel Staple Bridge down the sheathing table line and triggers the stapling/nailing tools at each stud and component location, fastening the sheathing to the wall frame. Operations are performed either by the manual hand crank and push button firing or optional automatic joystick control. Optional perimeter fire fastens all wall opening perimeters to the sheathing. Upon completion, the operator either manually or by utilizing the optional automatic bridge return, sends the bridge back to its original parked position. The sheathed panel is now ready for transfer to its next station to complete the closed panel manufacturing or stacked and loaded to be taken directly to the building site.

## **Machine Efficiency**

- All Bridge operations are accomplished from a single control panel by a single operator
- Stacked tool bar for faster cycle time and greater accuracy
- Adjustable tool pressure to accommodate any thickness or density of sheathing

## **Optional Features**

- Laser Pointer for accurate tool firing location
- Joystick operates all functions
- Single or Double Tool Bar for multiple sheathing styles
- Automatic Bridge Return to the park position
- Perimeter and Space Fire
- Automatic Panel Conveyor

# EQUIPMENT SPECIFICATIONS

## FRAMING STATION

### Gen II Framing Table

#### Standard Features:

- Custom Built from 12' to 80' lengths
- Power width adjust for various wall heights
- Cast iron counter balanced stud locators
- Heavy duty rollers with roller bearings
- Tape track for placing window & door openings
- Includes rails to accommodate bridge
- Continuous squaring lip for precision squaring
- Select-O-Matic squaring stops

#### Options:

Touch Control Ribbon  
Knee Wall feature for short walls  
Chain Conveyor

#### Specifications:

Electrical: 110 Volts, Single Phase, 10 Amps  
Air: 1/2" NPT @ 100 PSI  
Shipping Weight: Approx. 6000 lbs. (20' length)

### Stud Stitcher Bridge

#### Standard Features:

- Custom Built for 8' to 16' widths
- Simple controls for one man operation
- Nails 2x4 and 2x6 walls
- Solid state sensors
- Programmable Logic Controller controls all bridge functions
- Horizontal clamping pressure at 750 lbs.
- Vertical clamping pressure at 314 lbs.

#### Options:

Joystick Control  
Auto Return  
Laser Pointer

#### Specifications:

Electrical: 110 Volts, Single Phase, 5 Amps  
Air: 1/2" NPT @ 100 PSI  
Shipping Weight: Approx. 1500 lbs.

## SQUARING STATION

### Gen II Squaring Table

#### Standard Features:

- Custom Built from 12' to 80' lengths
- Power width adjust for various wall heights
- Heavy duty rollers with roller bearings
- Includes rails to accommodate bridge
- Continuous squaring lip for precision squaring
- Simple push buttons on both sides of table operate table in and out

#### Options:

Touch Control Ribbon  
Knee Wall feature for short walls  
Chain Conveyor

#### Specifications:

Electrical: 110 Volts, Single Phase, 10 Amps  
Air: 1/2" NPT @ 100 PSI  
Shipping Weight: Approx. 6000 lbs. (20' length)

### Router Bridge

#### Standard Features:

- Custom Built for 8' to 16' widths
- Simple controls for one man operation
- Positive adjustable stops for 2x4, 2x6, or 2x8 routing
- Fast Handcrank system gives 2 direction control simultaneously
- Positive chain drive in both directions
- Power track and take-up system
- 3 1/4" H.P... Bosch router @ 22,000 RPM with 3/8" to 1/2" collet capacity

#### Options:

Joystick  
Auto Return  
Material Handler

#### Specifications:

Electrical: 110 Volts, Single Phase, 5 Amps  
Air: 1/2" NPT @ 100 PSI  
Shipping Weight: Approx. 1200 lbs.

## SQUARING STATION

### Gen II Sheathing Table

#### Standard Features:

- Custom Built from 12' to 80' lengths
- Power width adjust for various wall heights
- Heavy duty rollers with roller bearings
- Includes rails to accommodate bridge
- Continuous squaring lip for precision squaring
- Rack-and-pinion gears clamp the wall square
- 8' park section at both ends of the table
- Simple push buttons on both sides of table operate table in and out

#### Options:

Touch Control Ribbon  
Knee Wall feature for short walls  
Chain Operator

#### Specifications:

Electrical: 110 Volts, Single Phase, 10 Amps  
Air: 1/2" NPT @ 100 PSI  
Shipping Weight: Approx. 5000 lbs. (20' length)

### Panel Bridge

#### Standard Features:

- Custom Built for 8' to 16' widths
- Pushbutton controls for one man operation
- Single or double tool bars available
- Tools can be mounted 6", 8" or 12" on center
- Tool bar designed to shift 3", 4" or 6" for seams
- Dual pressure selector switch for varying material densities
- Each tool is independently spring loaded to adjust for material variances

#### Options:

Joystick Control  
Auto Return  
Space Fire, Perimeter Fire Tools  
Laser Pointer

#### Specifications:

Electrical: 110 Volts, Single Phase, 5 Amps  
Air: 1/2" NPT @ 100 PSI  
Shipping Weight: Approx. 1800 lbs.

#### Optional Bridges

- Floor Builder
- Material Bridge
- Drywall Screw Bridge

*All specifications subject to change without notice.*



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