

FULLY AUTOMATIC STAIR ROUTER

**3 1/2 - AXIS CNC STAIR STRINGER ROUTER
FOR TRENCHING BOX AND OPEN STAIRS**

DATA SHEET
STAIR-ROUT™

Model 40

The **Stair-Rout™ Model 40** is a fourth generation machine which uses CNC technology to automatically cut rise, run and advance the board.

Simple screen display asks operator for rise, run and number of rise. No programming is required. Machine continuously checks for operator entry errors. Enter in fraction or decimal.

After cutting, the operator has a default choice of repeating rise, run and number of rise or changing one or more selections.



FEATURES

- High speed automatic stringer routing
- Operator choice of repeat or change
- Standard Box Step Rout with Round Nose¹
- Automatic rise, run cutting and board advancement
- Full cutting power — two 5.5 HP motors
- High frequency motors for clean cuts (vary speed solid state drives)
- Minimal operator training required
- Screen display shows scale picture of step
- Heavy duty steel construction
- No programming required
- Stringer 6" to 14" by 5/4" to 2 1/2" (Double or single stringers)

¹AVAILABLE OPTIONS

Standard Rout with Blunt Nose
Pocket Rout
Pocket Rout with Blunt Nose
Back Rout
Back Rout with Blunt Nose
Slant Riser
Center Open Horse
No Top Riser
Back Rout With Wedge
No Top Nose
Eyebrow Nosing
Open Stringers w/45 Riser Cuts

OPERATOR SELECTIONS

(Repeat or Change)

<u>Basic Operator</u>	<u>Advanced Operator</u>	<u>Supervisor</u> (Password Required)
Rise	Nose Width	Speeds
Run	Nose to Fence	Feeds
Number of Rise	Pocket Length	Precision Adjustments
<u>Other</u>	Riser Thickness	Component Operations
Type of Rout	Rise Wedge Angle	Password Changes
Tread Thickness	Run Wedge Angle	Statistics
Nose Length	Tread Clearance	
Stringer Width	Riser Clearance	
Tool Diameter	Top Riser	
Tread Cleanout		

SPECIFICATIONS

Footprint w/o Overhang	54" x 61"
Height	68"
Weight	3500 lbs
Motor Power Required	208-220VAC 3PH 30A
Control Power Required	115VAC 1PH 15A
Air Required	80 psi clean and dry
Tool Shank Capacity	1/2" Diameter

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Mountainside, NJ USA
www.StairEquipment.com
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AUTOMATIC WEDGE CUTTER

FULLY AUTOMATIC WEDGE CUTTER FOR STAIRS

DATA SHEET
WEDGIT™
Model 30

*The **Wedgit™ Model 30** uses PLC technology to automatically cut wedges which fit your stairs. Third generation machine.*

Simple operation requires minimal training.

*Load supply hopper
Press Run button*

Machine will then cut wedges automatically and continuously consuming entire boards.

Machine can be adjusted for wedge length, wedge angle and wedge thickness.

Add boards to supply hopper without stopping the machine or interrupting operation.



FEATURES

- Minimal operator training
- Runs unattended
- PLC control
- Pneumatic Power
- High speed automatic cutting
- Does not require programming
- Standard 10" blade capacity
- Heavy duty steel construction
- Wedge length 6" to 11"
- Operator choice of wedge angle
- Operator choice of wedge length
- Operator choice of wedge thickness

SPECIFICATIONS

Footprint w/o Overhang	33" x 47"
Height w/cover down	58"
Weight	500 lbs
Motor Power Required	220VAC 3PH 10A
Control Power Required	115VAC 1PH
Air Required	80 psi clean and dry
Saw Blade Capacity	10" dia x 5/8 hole

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AUTOMATIC KERFING SAW

SAW MACHINE FOR BULLNOSE RISERS

DATA SHEET
KERF-IT™
Model 10

The Kerf-It™ Model 10 uses PLC technology to automatically cut saw blade width cuts in riser boards for ¼ round and ½ round bull nose risers.

Simple operation requires minimal training.

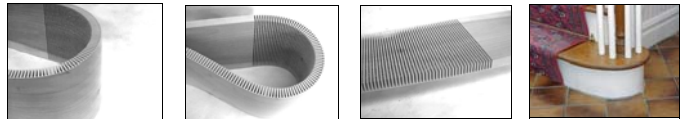
*Load riser board
Set end of board stop
Press Run button*

Machine will then cut notches automatically and continuously until board reaches end of board stop.

After cutting, the operator has a default choice of repeating pitch, depth and board length or changing selections.



Optional Wings Shown



FEATURES

- Minimal operator training
- Runs unattended
- PLC control with pneumatic power
- Full 2 HP cutting power
- High speed automatic cutting
- Does not require programming
- Standard 10" blade capacity
- Heavy duty steel construction
- Riser capacity 4" to 12" by ¼" to 1½"
- Operator choice of cut depth
- Operator choice of cut spacing
- Operator choice of board length
- Excellent clamping ability
- Bend any wood to any radius or curves

SPECIFICATIONS

Footprint w/o Overhang	33" x 36"
Footprint w/options & overhang	45" x 85"
Height w/cover down	41"
Weight	600 lbs.
Motor Power Required	220VAC 3PH 10A
Control Power Required	115VAC 1PH
Air Required	80 psi clean and dry
Saw Blade Capacity	10" dia x 5/8" hole

OPTIONS

Wings
Leveling Pads

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AUTOMATIC BOX STAIR ASSEMBLY CLAMP

DUAL PNEUMATIC STAIR CLAMP FOR ASSEMBLING BOX STAIRS

DATA SHEET
STAIR-CLAMP™

Model 10, 12, 14, 16

*The **Stair-Clamp™** is the roughest and toughest yet most precision stair clamp available anywhere.*

SIMPLE OPERATION

1. Operate knob to set desired opening.
2. Load stringers, risers & treads and again operate knob to automatically lock clamp.
3. Complete stair assembly with choice of glue, wedges, nails, screws, etc.
4. Operate knob again to open clamp and slide out finished stair.



MODEL 16 SHOWN

FEATURES

- Super heavy duty steel construction
- Operator choice of stair width
- Standard box step squared accurately
- Rigid and square clamp arms
- Full clamping power on every step
- Completely pneumatic
- Minimal operator training required
- Easy to read scale for width opening
- Rugged flip up squaring stops (no loose pieces)
- No hand adjustments required
- Stringer lengths unlimited
- Multiple stair assembly stops
- Lifetime Construction



MODEL 14 SHOWN



MODEL 16 SHOWN

DESIGN ADVANTAGES

Positive clamping (will not move when wedges are driven in).
 Maintain parallel stringers from end to end and top to bottom.
 Infinite width control with pneumatic control knob only.
 Every stair comes out square and true end to end.
 Adjustable work height.
 No extra clamps needed - ever.
 Large clamping range (33" - 53").
 Slide completed steps out of either end.
 Clamp two sets of short stairs simultaneously (same width).

AVAILABLE OPTIONS

12' Stair Clamp Length
 14' Stair Clamp Length
 16' Stair Clamp Length
 Custom Lengths
 Full Pressure Indicator
 Extreme Working Height

SPECIFICATIONS

Footprint w/o Overhang (Model 12)	45" x 144"
Height (Minimum Overall)	45"
Weight (Model 12)	4500 lbs
Working Height (Adjustable)	24" - 29"
Air Required	80 psi clean and dry
Stringer Support Rail Width	4" each side

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FULLY AUTOMATIC TREAD RETURN SAW

**3 - BLADE STAIR TREAD RETURN SAW
FOR CUTTING STAIR TREADS FOR MATING WITH RETURNS**

DATA SHEET
TREAD-SAW™

Model 20

The **Tread-Saw™ Model 20** is a second generation machine which uses triple blade technology to automatically cut stair treads for mating with returns.

Simple operator controls allows for fast and accurate cuts every time.

Insert board up to a hard stop. Press the "cycle" button. Machine automatically clamps and cuts the board. After cutting, the clamps are released and the operator can remove the board.



FROM THIS



TO THIS
IN SECONDS



FEATURES

- High speed saw blade motors
- Triple blade design
- Standard left & right configuration
- Automatic sequencing for clamping, cutting and releasing the board
- Full cutting power from direct drive motors
- Vary speed solid state drives
- Minimal operator training required
- Hard stops for board placement
- Heavy duty steel construction
- No programming required
- Treads 6" to 14" by 1/2" to 1 1/4" any length

DESIGN ADVANTAGES

Positive clamping (will not move during cuts).
Hard stops for board end and board edge.
Infinite cut locations for specific stair designs.
Every board cuts true and square every time.
Simple operator controls (Power and Cycle).
Open table design accommodates cuts for retreads.
One cut for either left hand or right hand treads.
Easy loading and unloading of material by operator.
Compact footprint for small locations.
Simple head adjustments to accommodate blade sharpening.

CUT RETREADS EASILY



SPECIFICATIONS

Footprint w/o Overhang	43" x 34"
Height	103"
Weight	1500 lbs
Motor Power Required	208-220VAC 3PH 30A
Control Power Required	115VAC 1PH 15A
Air Required	80 psi clean and dry
Blade Size	8", 10" & 14" Diameters

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AUTOMATIC PANEL CLAMP PNEUMATIC PANEL CLAMP

FOR FABRICATING PANELS & STAIR TREAD BLANKS
(CONCEPT BY STILLWELL STAIRBUILDERS; DESIGN & MFG BY CORDES MACHINE)

DATA SHEET
PANEL CLAMP-IT™

Model 244

The **Panel Clamp-It™** is the roughest and toughest yet most precise panel clamp available.

SIMPLE OPERATION

1. Operate dual knobs to open clamp.
2. Load boards, add glue as you go.
3. Operate dual knobs to automatically lock clamp.
4. Complete panel assembly with pipe clamps as needed.
5. Operate dual knobs to open clamp and slide out finished panel for glue drying.

FEATURES

- Super heavy duty steel construction
- Operator choice of panel width
- Standard panels squared accurately
- Rigid and square clamp arms
- Full clamping power on every panel
- Completely pneumatic
- Minimal operator training required
- Easy to load and unload
- Rugged squaring stops (no loose pieces)
- No hand adjustments required
- Available widths unlimited
- Multiple clamping stations for flexibility
- Lifetime Construction



MODEL 244 SHOWN
WITH OPTIONAL CASTERS
AND PIPE CLAMPS

DESIGN ADVANTAGES

Positive clamping (will not move when pipe clamps are on).
Maintain flat panels from end to end and side to side.
Standard widths available.
Every panel comes out square and true.
Adjustable work height (without casters).
No extra man power or hammers needed - ever.
Large clamping range (24" x 4').
Slide completed panels out easily.
Clamp up to 3-1/4" thick panels.

AVAILABLE OPTIONS

24" Deep x 4' Wide (shown above)
24" Deep x 6' Wide
24" Deep x 8' Wide
Custom Depths and Widths
Pipe Clamps With Pipe
Casters For Mobility In Small Shops

SPECIFICATIONS

Footprint w/o Overhang (Model 244)	43" w x 28" d
Height (Minimum Overall)	54"
Weight (Model 244)	800 lbs
Working Height (Adjustable)	34" - 38"
Air Required	80 psi clean and dry
Clamp Support Rail Width	1" each station

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HAND OPERATED STAIR STRINGER TEMPLATE

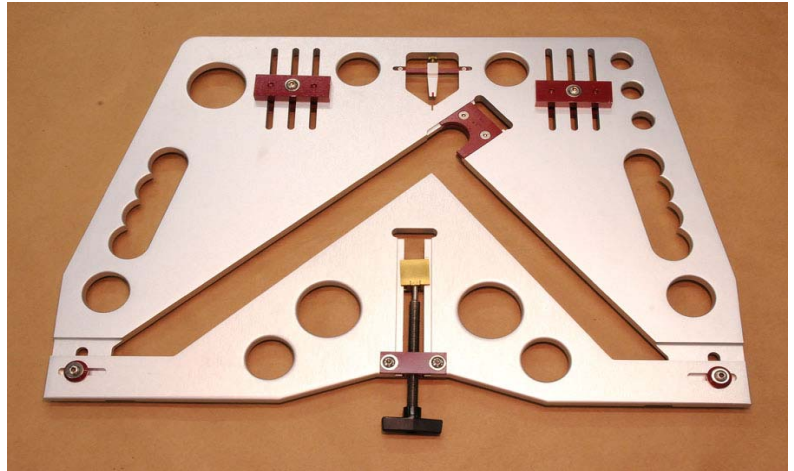
DUAL SIDED STRINGER TEMPLATE FOR HAND ROUTING BOX STAIR STRINGERS

DATA SHEET
STAIR-TEMPLATE™
Model 7

The **Stair-Template™** is a simple to use and cost effective solution for routing box stair stringers by hand.

SIMPLE OPERATION

1. Layout two rise run lines using the included rise run square.
2. Mark step locations using a pencil.
3. Clamp Stair-Template™ to stringer using the self contained clamping system.
4. Hand rout stringer using template.



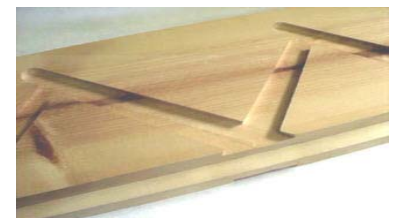
MODEL 7 SHOWN

FEATURES

- Heavy Duty Construction
- Operator Choice of Rise & Run
- Standard Box Steps Are Consistent
- Self Contained Clamps For Rigid Routing
- One Template For All Your Steps
- Completely Mechanical
- Minimal Operator Training Required
- Reversible For Left & Right Stringers
- Rugged Two Piece Cast Aluminum Body
- Set It And Forget It For Production Jobs
- Unlimited Rise/Run Combinations
- Extreme Sizes Are Easy To Handle
- Designed By Stair Builders Like You



MODEL 7 INCLUDED ACCESSORIES SHOWN



FINISHED STRINGER SHOWN

DESIGN ADVANTAGES

Single Template For Multiple Steps.
Heavy Duty Construction.
Multiple Overhangs To Choose From.
Integrated Clamps Reduces Tools Required.
Rout Consistent Rise/Runs For Box Stairs.
Large Range Of Rise/Run Combinations.
Double Sided For Left Hand And Right Hand Stringers.
One Template Handles All Your Box Stair Construction.

AVAILABLE OPTIONS

3 1/4 HP Electric Hand Router
Right Hand Routing Bit
Tape Measure
Extension Cord
Box of No. 2/HB Pencils

SPECIFICATIONS

Dimensions	29" x 21"
Thickness (Body Minimum)	5/8"
Weight	32 lbs
Works With Cutters	7/8" Dovetail
Air Required	None
Electric Required	None (For Template)

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