

SOLITAIRE SERIES

ALL NEW FINGER JOINT LINE for EXTRA SHORT WOOD
FL-24NF / FL-24NA / FJ-24N

www.ckmtw.com.tw

DEDICATED TO PURSUE HIGH LEVEL OF WOODWORKING TECHNOLOGY

FULLY AUTO FINGER JOINTING LINE

ONE MODEL, DIFFERENT ACCOMMODATIONS, AND ENDLESS POSSIBLE CREATIONS

Now, you can turn extra short wood waste into valuable material with the CKM FL-24N series Auto Finger Jointing Line ! It's specially designed and integrated with user-friendly features, such as a single shaper configuration combined with rotary table.

The FL-24N series is your ultimate choice for increasing wood utilization and lowering production cost.

5 HIGHLIGHTS OF FL-24N

- 01 BETTER EFFICIENCY WITH AUTOMATED PRODUCTION WHILE OCCUPYING LESS SPACE.
- 02 ONE MAN OPERATION.
- 03 ONE SHAPER CONDUCTS FINGER SHAPING ON BOTH SIDES.
- 04 CAPABLE OF PROCESSING EXTRA SHORT WOOD TO 100 MM.
- 05 EASY SET-UP THROUGH TOUCH SCREEN PANEL.

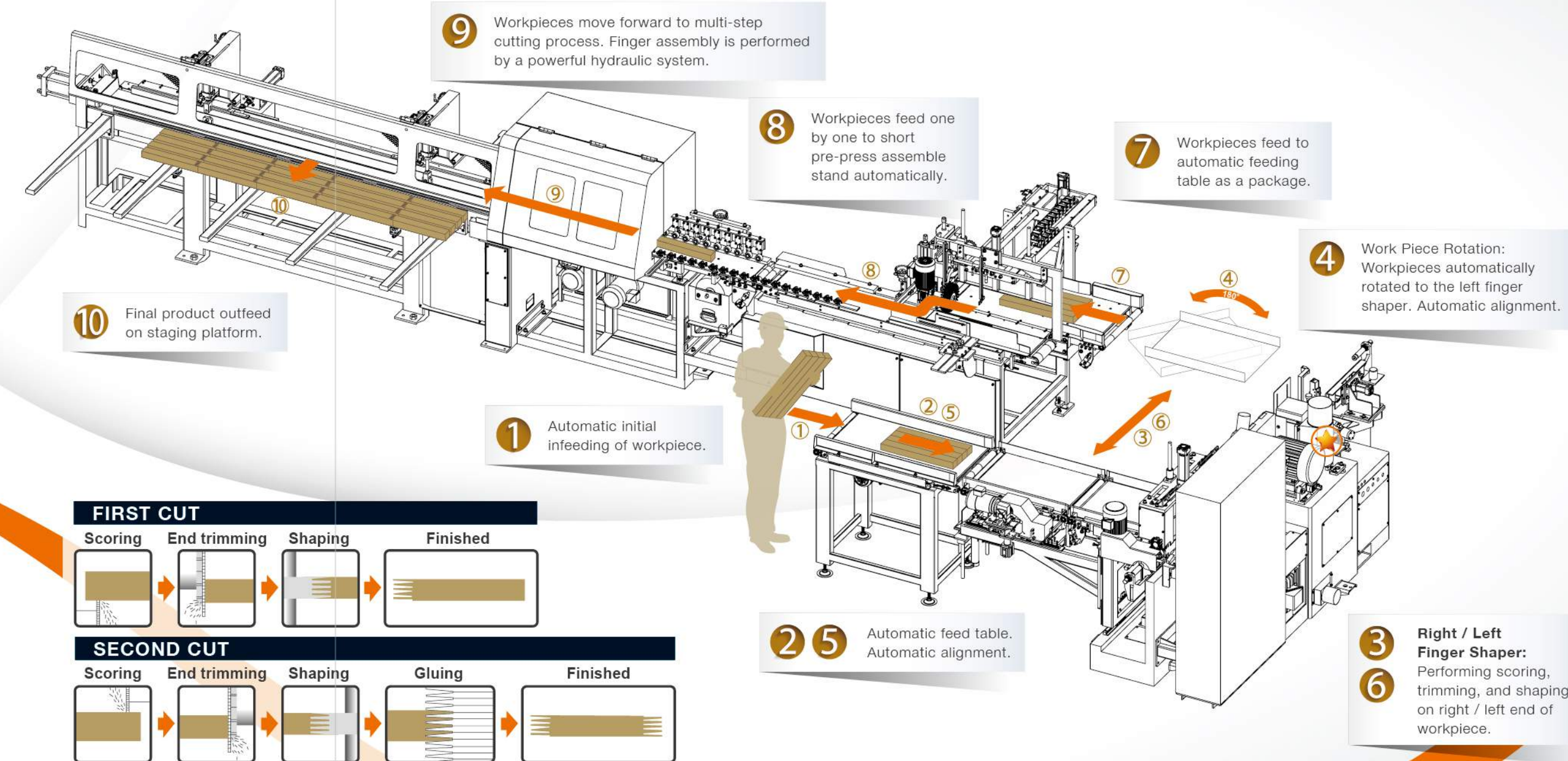


FL-24NF

LOOK INTO CKM FL-24N SERIES FOR BETTER IDEAS IN FINGER SHAPING AND JOINTING.

- Applicable for machining extra short wood waste of 100 mm.
- Single shaper cuts both ends of wood.
- Rotary table swivels 180°
- 0-2 mm cutting length tolerance.
- Higher shaping accuracy.
- Reduced cutting costs.
- Automatic spindle elevation.
- Automatic scoring saw movement. (opt.)
- Automatic rotary table.

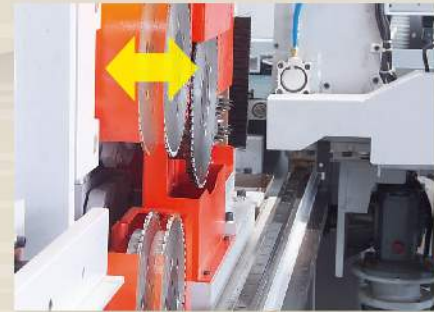
PRODUCTION FLOW CHART



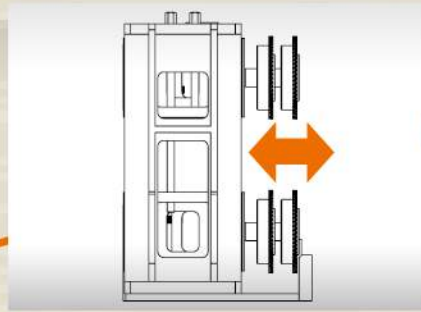
FEATURES

AUTOMATIC SCORING SAWBLADE MOVEMENT (Opt.)

The scoring sawblade movement is automatically controlled for increased convenience in positioning adjustment.



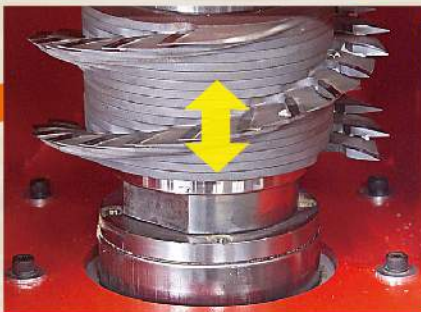
Scoring saw with auto switching device (Left & right)



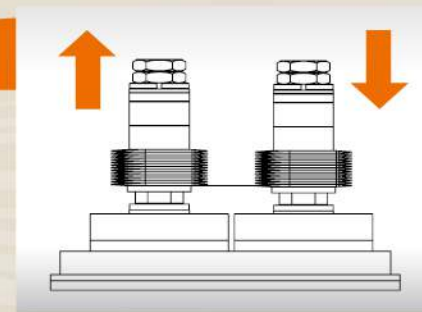
Automatic Scoring Saw Movement

AUTOMATIC SHAPER SPINDLE ELEVATION

The shaper spindle elevation is driven by a servo motor, providing high positioning accuracy. (See ★ as indicated in production flow chart on p.3.)



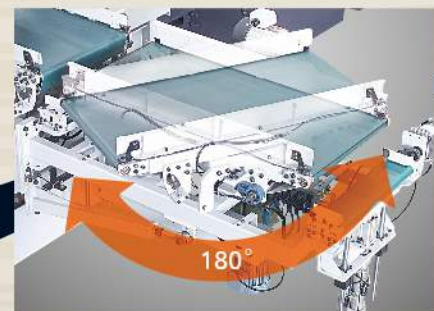
Finger shaper with auto switching device (Left & right)



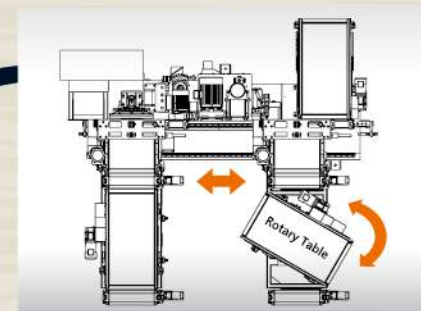
Automatic Shaper Spindle Elevation

ROTARY TABLE

The table swivels 180°, allowing one shaper to cut the other end of wood.



Left & right auto switching finger shaper



ALLOW WORKPIECE DOWN TO 100 MM

FL-24 series turns short wood waste into useful workpiece.



Workpiece Length
100 mm.



Finished product Length
90 mm.

PLC TOUCH SCREEN PANEL

Length of cut is calculated by an encoder and input on touch screen for increased accuracy.

- Touch screen for easier data input and operation control.
- Error indicator function provides quick troubleshooting.

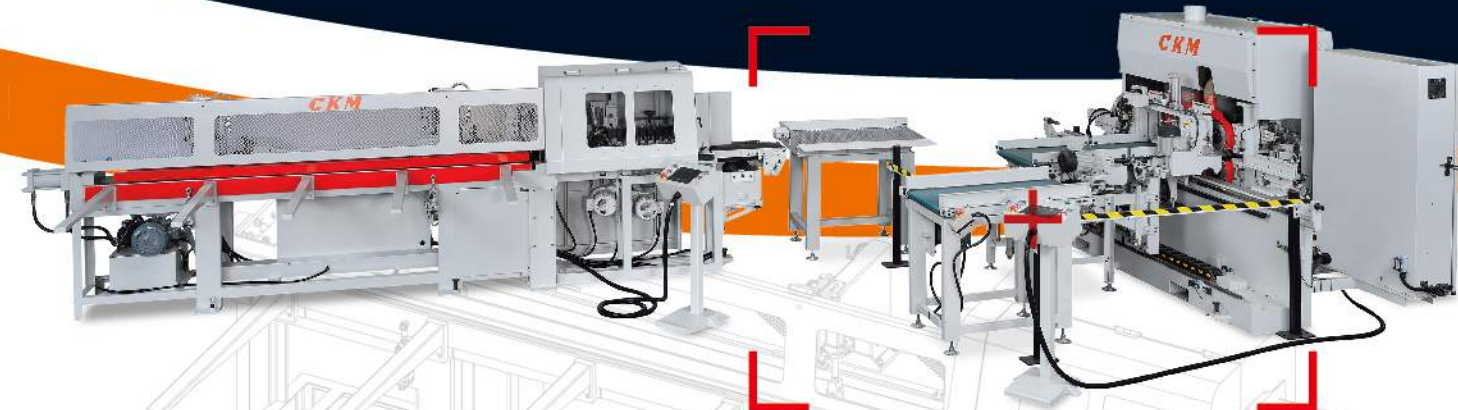


PROFILE CUTTER (Opt.)

Profile cutter is available for producing a state-of-the-art result.



AUTO FINGER JOINTING LINE



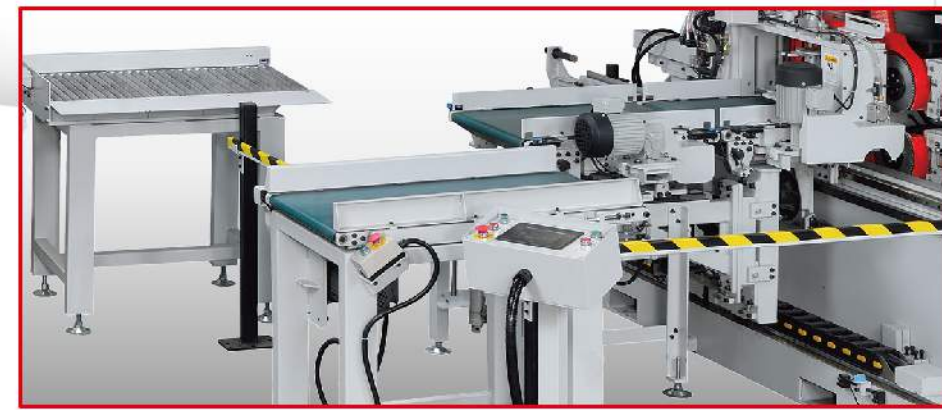
HOPPER LOADER

The hopper loader is mounted before the assembly press. After shaping, the operator may stack the workpieces in the hopper loader for automatic feed into the assembly press.

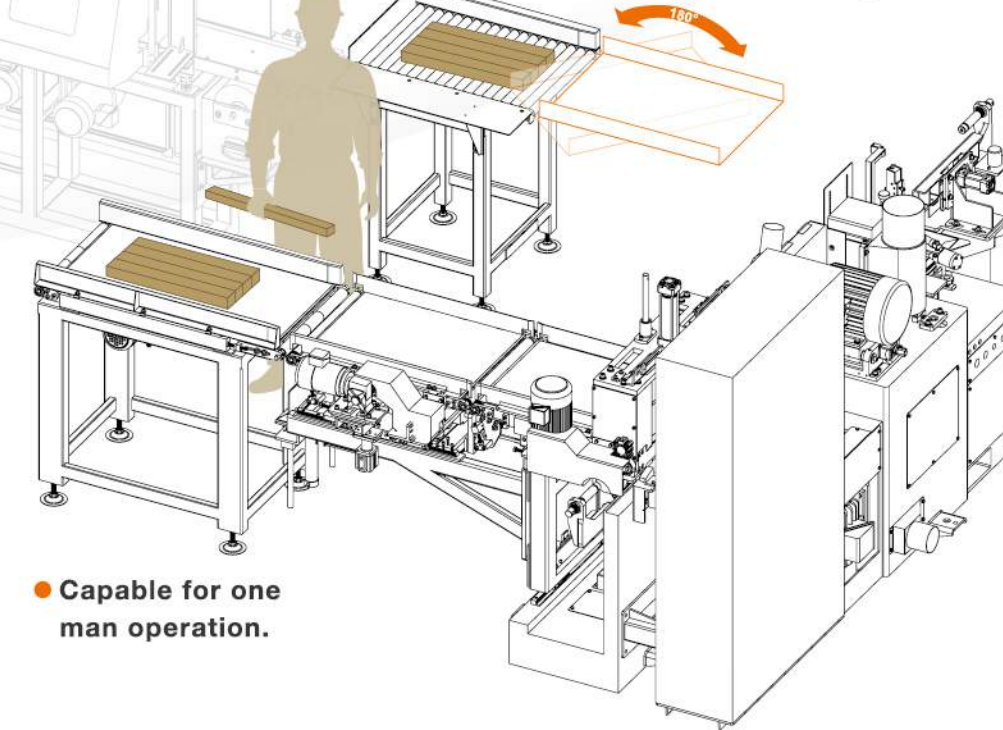


Standard equipment on FL-25 & FL-19 model.

FL-24NA

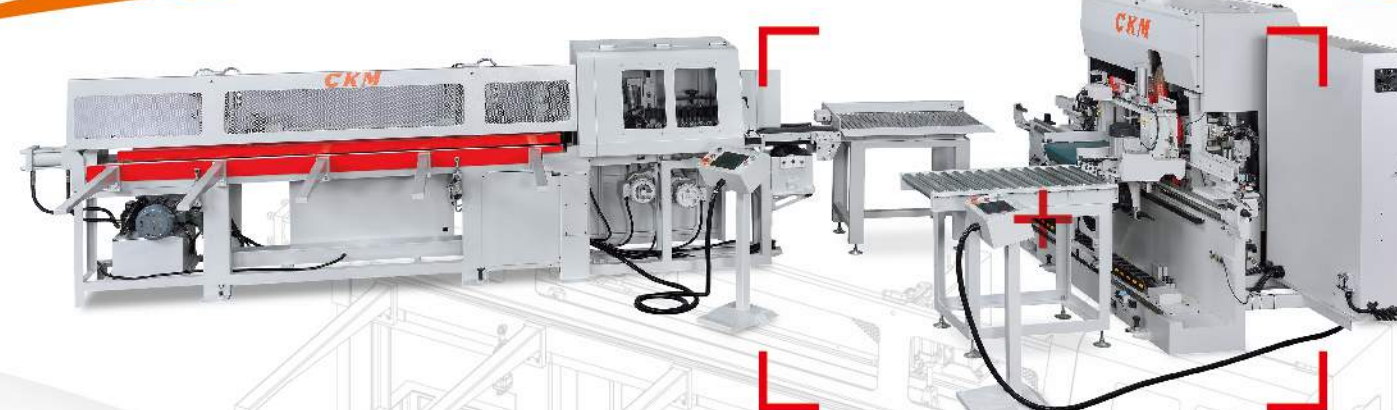


• Automatic rotary table.

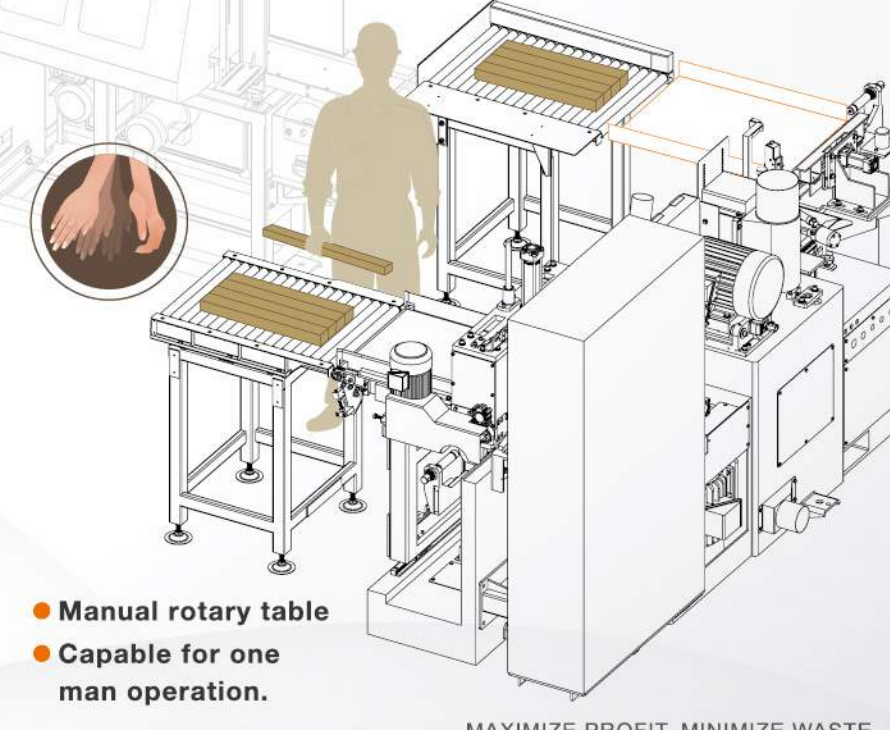


• Capable for one man operation.

SEMI-AUTO FINGER JOINTING LINE

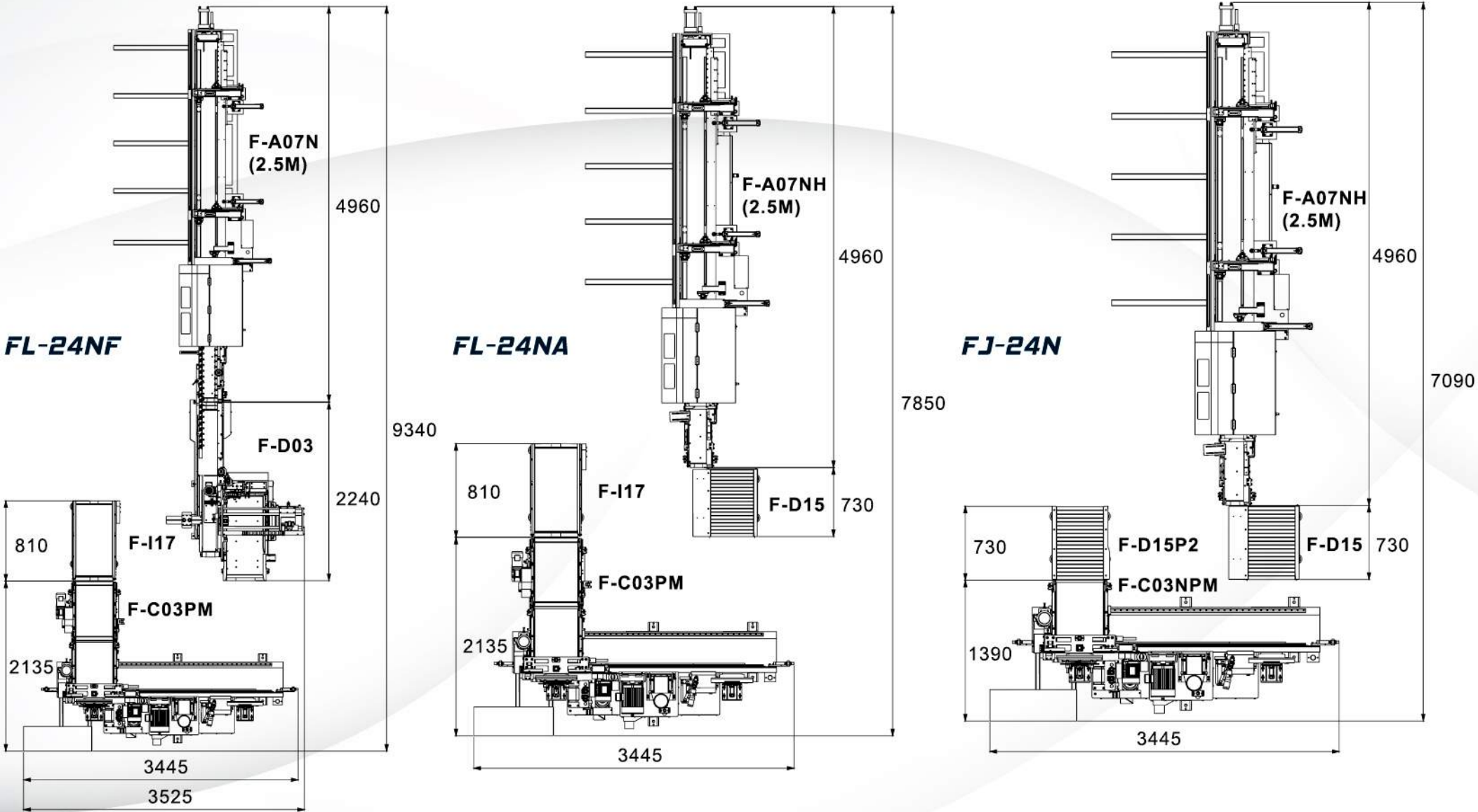


FJ-24N



• Manual rotary table
• Capable for one man operation.

DIMENSIONS



FULLY AUTO FINGER JOINTING LINE (FL-24NF)		AUTO FINGER JOINTING LINE (FL-24NA)		SEMI-AUTO FINGER JOINTING LINE (FJ-24N)	
F-D03 AUTOMATIC FEEDING TABLE		F-A07NH(2.5M) ASSEMBLE PRESS		F-D15 MANUAL FEEDING TABLE	
F-C03PM FINGER SHAPER		F-C03NPM FINGER SHAPER		F-D15P2 MANUAL FEEDING TABLE	
F-I17 INITIAL AUTOMATIC FEEDING TABLE					

MACHINE SPECIFICATIONS

F-C03 FINGER SHAPER		
MODEL	F-C03PM	F-C03NPM
Max. Width for Working Table	450 mm	450 mm
Range of Material Length	100~700 mm	100~700 mm
Range of Material Width	30~160 mm	30~160 mm
Scoring Saw Speed (opt.)	2800 / 3400 rpm (50/60HZ)	2800 / 3400 rpm (50/60HZ)
Trimming Saw Speed	2800 / 3400 rpm (50/60HZ)	2800 / 3400 rpm (50/60HZ)
Finger Cutter Speed	7000 rpm	7000 rpm
Finger Cutter diameter	Ø70 (I.D.) / Ø160 (O.D.)	Ø70 (I.D.) / Ø160 (O.D.)
Dust Outlet Diameter	6" x 2	6" x 2
Machine Dimension (LxWxH)	3220 x 2600 x 1920 mm	3220 x 1760 x 1920 mm
MOTOR HORSEPOWER		
Working Table Servo Motor	1 KW	1 KW
Spindle Switching Servo Motor	0.4 KW	0.4 KW
Table Turning Servo Motor	0.4 KW	-
Conveyor Belt Motor	1/2 HP x 2	1/2 HP
Scoring Saw Motor	1 HP x 2	1 HP x 2
Trimming Saw Motor	5 HP	5 HP
Finger Cutter Motor	15 HP	15 HP
1. The standard gluing device is injecting system type; the tenon depth is 12mm. 2. Roller type gluing system can be installed upon request.		

F-I17 INITIAL AUTOMATIC FEEDING TABLE		
MODEL		
Max. Width for Working Table	450 mm	
Max. Material Length	700 mm	
Machine Dimension (LxWxH)	1000 x 610 x 970 mm	
MOTOR HORSEPOWER		
Conveyor Table Motor	1/2 HP	

F-A07N/NH ASSEMBLE PRESS		
MODEL	2.5 M	5.0 M
Available Length of Product	2500 mm	5000 mm
Range of Material Thickness	20~60 mm	20~60 mm
Range of Material Width	30~160 mm	30~160 mm
Max. Assembly Press	0~100 kg/cm ²	0~100 kg/cm ²
Dust Outlet Diameter	5"	5"
Machine Dimensions (LxWxH)	5000 x 1160 x 1500 mm	7500 x 1160 x 1500 mm
MOTOR HORSEPOWER		
Material Feeding Motor	1 HP x 2	1 HP x 2
Sizing Saw Motor	5 HP	5 HP
Hydraulic Pump Motor	3 HP	3 HP

F-D03 AUTOMATIC FEEDING TABLE		
MODEL		
Conveyor Table Width	450 mm	
Range of Material Length	100~700 mm	
Range of Material Width	30~160 mm	
Machine Dimension (LxWxH)	2750 x 1750 x 1600 mm	
MOTOR HORSEPOWER		
Infeed/Outfeed Motor	1 HP / 2 HP	
Feeding Drive Servo Motor	0.4 KW	
Brush Wheel Drive Motor	1/8 HP	

F-D15 MANUAL FEEDING TABLE		
MODEL	F-D15	F-D15P2
Max. Width for Working Table	450 mm	450 mm
Range of Material Length	100~700 mm	100~700 mm
Machine Dimension (LxWxH)	750 x 700 x 1000 mm	750 x 600 x 900 mm
All specifications, dimensions and design characteristics are subject to change without notice.		