

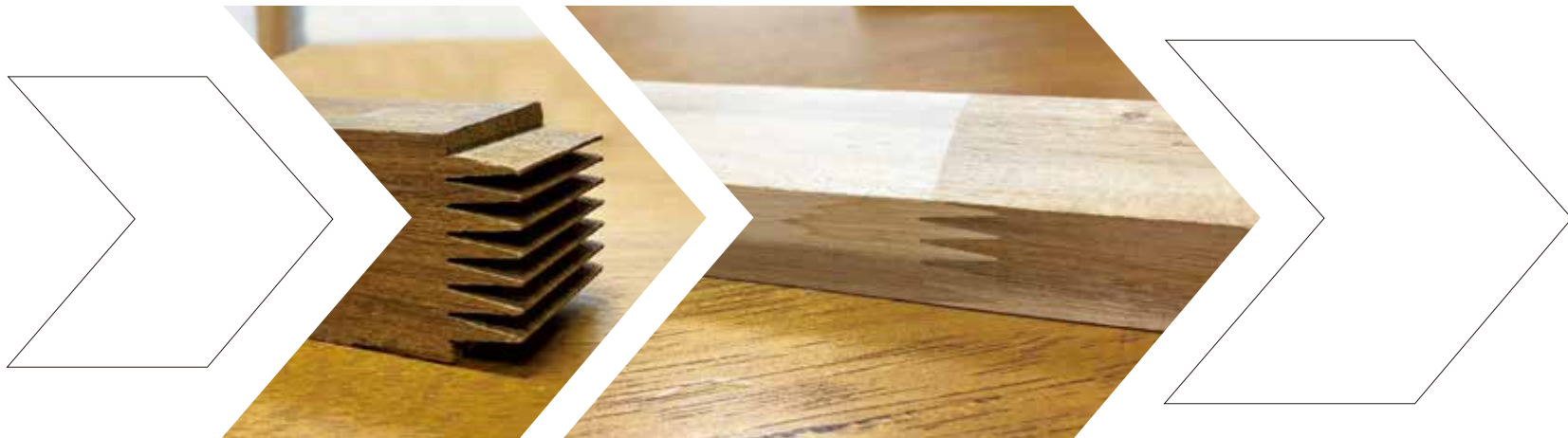


A World Class Woodworking Machinery Manufacturer

HORIZONTAL FINGER JOINTING LINE

FHL-60
FHL-120

Upgrading Your Existing Horizontal Line with Expanded Manufacturing Capabilities



Precision / Quality Proven / Ruggedly Constructed



ISO 9001 No:FM 518615

CKM FHL-120

Horizontal Finger Jointing Line

An Upgraded Finger Jointing Experience is Here

Specially designed to work with wide wood materials, CKM's FHL-120 is the upgraded finger jointing line that will impel your woodworking one step further. The entire system is equipped with a fully automatic setting, where only one person is needed from loading to the final storage process. Simple, smooth setup and high productivity, these elements perfectly match CKM's more than 60 years of woodworking excellence.

REDUCE WORKFORCE
INCREASE PRODUCTIVITY



Features

50% lower processing time from previous models.

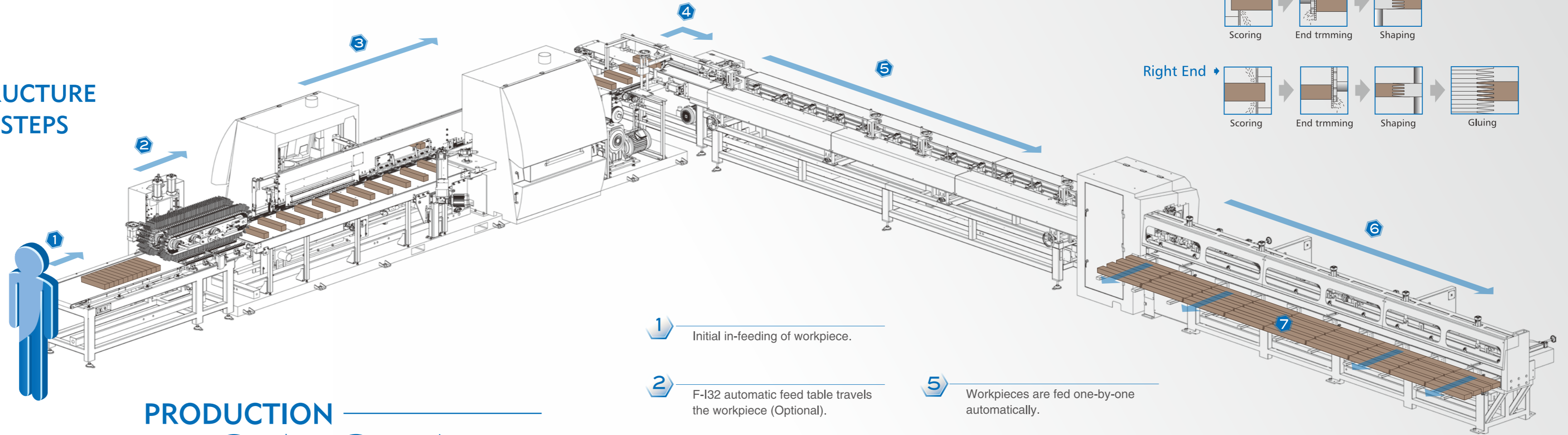
Max. Production rate **120 pcs** / min.

Ideal for producing solid wood parquet.

Double-sided pressing on assembly press for stable jointing result.

MAXIMIZE PROFIT
MINIMIZE WASTE
A WORLD CLASS WOODWORKING MACHINERY MANUFACTURER

BUILD YOUR WOOD STRUCTURE
WITH EXTREMELY EASY STEPS



PRODUCTION FLOW CHART

1 Initial in-feeding of workpiece.

2 F-I32 automatic feed table travels the workpiece (Optional).

3 F-CH61H performs scoring, trimming, and shaping on both ends of the workpiece.

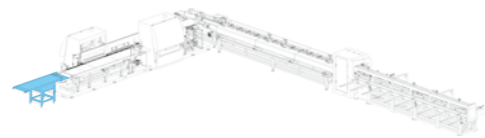
4 Workpieces auto-feed to F-T67-7 for pre-assembly.

5 Workpieces are fed one-by-one automatically.

6 F-A63-6 cuts workpiece into precise length and assembles it with a powerful hydraulic system.

7 Final product out-feed to staged platform.

F-I31

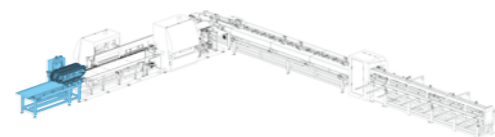


Manual Feeding Table

The standard feeding table designed by CKM, aimed at a smooth in-feed process

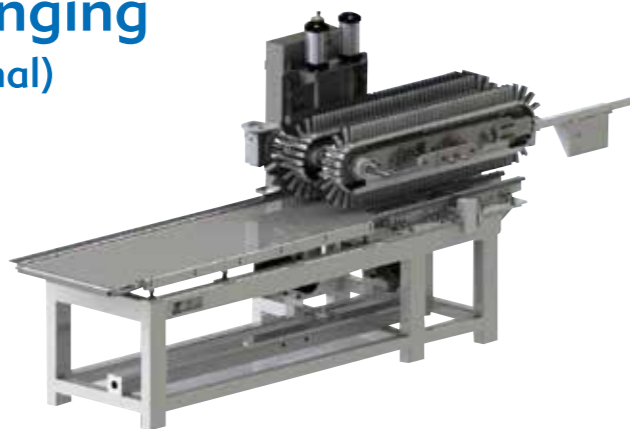


F-I32

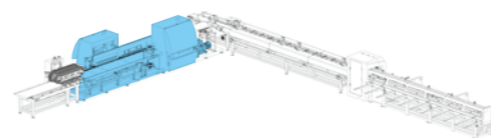


Automatic Wood Arranging Conveying Table (Optional)

Finding it too much of a hassle in placing and arranging wood for in-feed process? The F-I32 is here to save you from the trouble. With an automatic arranging mechanism designed for the conveyor, you now only need to make sure you place the wood and it will align them all.



F-CH61H



Double-Sided Horizontal Finger Shaper

Wood Side Change Mechanism

- After left finger shaping is performed, the side change mechanism will auto-flip the workpiece to the right hand side, allowing both ends shaping in one-step process.
- The mechanism is equipped with a pressure sensor. In case any wood gets jammed, the machine will automatically send an alarm and pause.

Combined L & R Shaping and Gluing in One Unit

- With the gluing process also designed within the shaping process, it not only reduces the working steps but further adds the productivity to 120 pcs / min.

Frequency Inverter Motor Drive

- The frequency inverter motor drive equipped on F-CH61H allows it to feed at variable speeds.

Precision Jointing

- The F-CH61H is driven by linear guideways to ensure a stable and high precision jointing result.

Cutter Presetter

- A cutter presetter is built on the shaper for convenient cutter changes.

Ultra Uniform Wood Pressure Mechanism

- A wood pressure mechanism is designed with a plastics pressure plate and a cotton air hose, which ensures completely uniform pressure for holding the wood throughout the entire process.

Powerful Suction Table

- A suction mechanism is designed into the feeding table to prevent wood from turning over before feeding into the pre-press assemble stand.



Ultra Uniform Wood Pressure Device

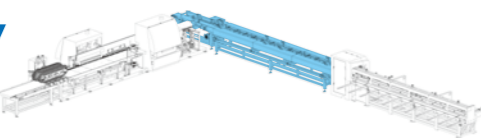
The wood pressure device at the cutting and left shaping mechanism consists of a plastic pressure plate and a cotton air hose, that ensures ultra uniform pressure for holding wood stably.



Wood Side Change Device

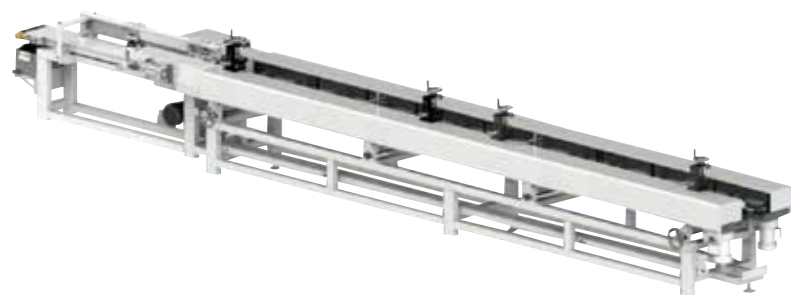
After left finger shaping is performed, the side change device moves wood to the opposite side for shaping right finger. The device is equipped with a pressure sensor. In case wood is jammed, the machine stops automatically.

F-T67-7

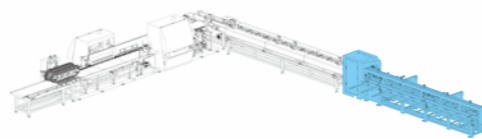


Chain Drive Pre-Press Assembly Stand

- The pre-press assembly stand can be 3 to 6 meters in length based on customers' preference.
- The pre-press assembly stand can align the workpieces into pre-press boards that are ready to be cut into the requested length. Also, the pre-press process ensures a precise vertical and horizontal alignment for all finger jointed boards.

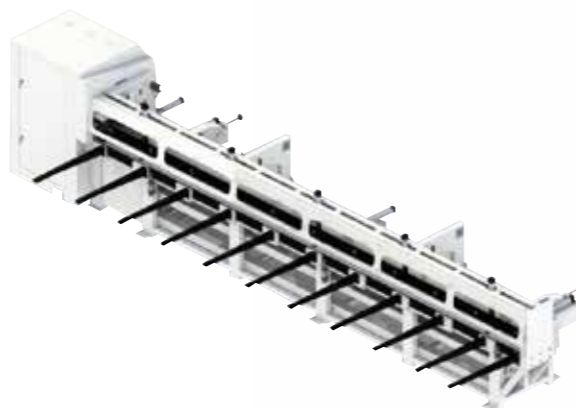


F-A63-6



Auto Assemble Press

- A double-side pressing is conducted with two hydraulic cylinders designed at the front and rear end of the machine, providing a powerful and fast assembling process.
- The assembly press can joint the short workpieces to produce long wood boards with length up to 6,800 mm.
- A synchronized s-step process allows the first-step jointing and cutting-to-length and the second-step pressing and out-feeding to be conducted at the same time. This shortens assembling time by 50%.



F-I31 MANUAL FEEDING TABLE

MODEL	
Conveyor table width	700 mm
Feed drive motor	1 HP
Machine dimensions (L x H x W)	2610 x 930 x 850 mm

F-I32 AUTOMATIC WOOD ARRANGING CONVEYOR TABLE

MODEL	
Conveyor table width	700 mm
Feed drive motor	1 HP
Brushwheel drive motor	3 HP
Machine dimensions (L x H x W)	3650 x 1750 x 1300 mm

F-CH61H HORIZONTAL FINGER SHAPER

MODEL	
Range of workpiece length	150~700 mm
Range of workpiece width	40~160 mm
Range of workpiece height	16~60 mm
Feeding speed	max. 60~120 pieces/min
Trimming saw speed	4600 rpm (50 hz)
	5400 rpm (60 hz)
Finger cutter speed	6000 rpm
Scoring saw speed	6200 rpm (50 hz)
	7200 rpm (60 hz)

POWER REQUIRED	
Feed of chain motor	7-1/2 HP
Trim saw motor (and scoring saw)	10 HP x 2
Shaper cutter motor	20 HP x 2
Cutter spindle diameter	Ø50 mm
Diameter of Cutter (in/out)	Ø250 mm
Dust hood outlet diameter	6" x2
Machine dimensions (L x H x W)	8420 x 2000 x 2600 mm

F-A63-6 AUTO ASSEMBLY PRESS

MODEL	
Available length of product	6000 mm
Available thickness of product	16~60 mm
Available width of product	40~160 mm
Capacity length product	6 psc
POWER REQUIRED	
Feed drive motor	3 KW
Max. assembly pressure	0~150 Kg/cm2
Hydraulic power unit	5 HP
Cut-off saw	5 HP
Dust hood outlet diameter	4" (101.6 mm)
Machine dimensions (L x H x W)	7620 x 1680 x 1700 mm
Noise Value	84 db

F-T67-7 CHAIN DRIVE PRE-PRESS ASSEMBLY STAND

MODEL	
Range of workpiece height	16~60 mm
Range of workpiece width	40~160 mm
Feeding speed	200 m/min
Feed drive motor	2 HP x 2
Conveyor motor motor	3 HP
Machine dimensions (L x H x W)	9280 x 1420 x 1245 mm

Dimensions – FHL-60

F-A63-6

Automatic Assemble Press

F-T67-7

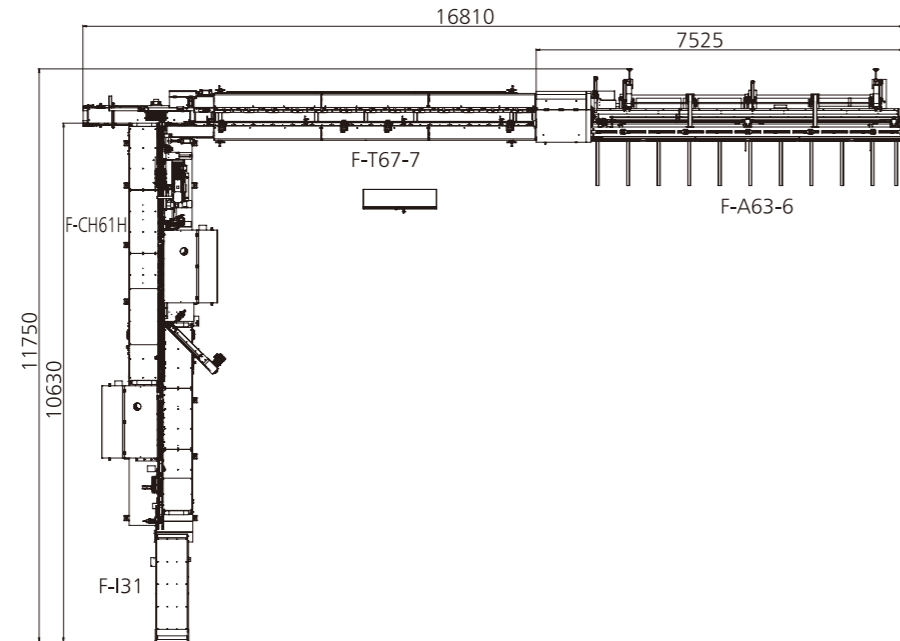
Chain Drive Pre-Press Assembly Stand

F-CH61H

Automatic Assemble Press

F-I31

Manual Feeding Table



Dimensions – FHL-120

F-A63-6

Automatic Assemble Press

F-T67-7

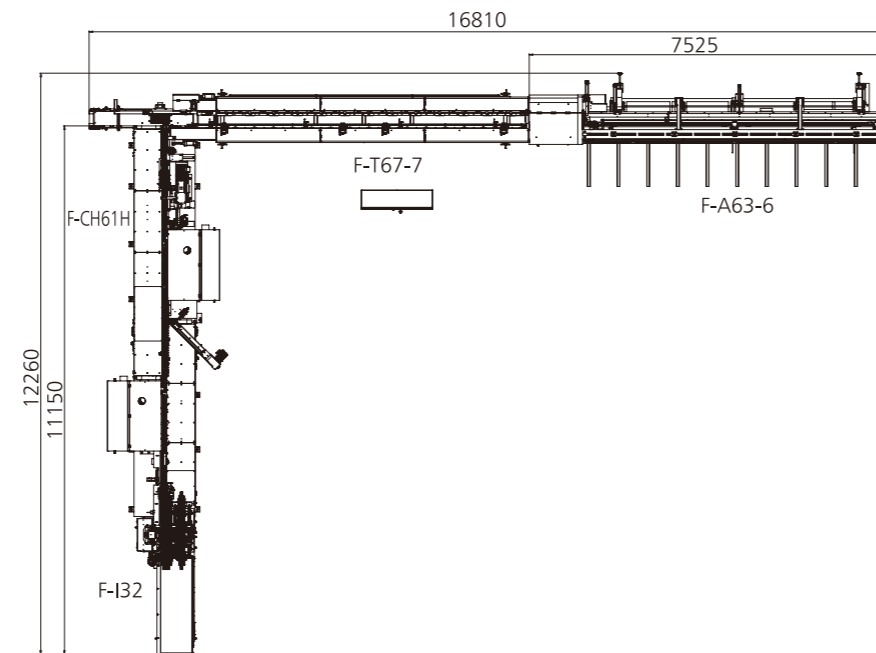
Chain Drive Pre-Press Assembly Stand

F-CH61H

Automatic Assemble Press

F-I32

Automatic Wood Arranging Conveyor Table



F-K01

Auto Outfeed Stacker (Optional)

Too busy and too small a workforce? The F-K01 can be linked to all types of woodworking production lines, as well as to all series of the CKM's finger jointing lines. Now, your operator only needs to use the forklift once and all final workpieces are all neatly stacked up.



F-K01 STACKER

MODEL	
Number of heads	4-First one fixed and other three adjustable
Pack size	1000 x 1000 x 6000 mm
Max. timber size	220W x 60H x 6000 mmL
Min. timber size	50W x 20H x 1500 mmL
Max. timber weight	30 kg
Max. layer weight	120 kg
Speed	2-3 layers/min or 20 pickup/min
Machine dimensions (L x W x H)	6783 x 5400 x 1960 mm
POWER REQUIRED	
Sliding forks	0.4 KW x 4
Heads moving	1 KW x 3
Pick-up	2 KW x 1
Arms up/down	3 KW x 1
Outfeed chain conveyor	0.75 KW x 4



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