

**CKM**<sup>®</sup>

Quality & Service

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# Reclaim Valuable Wasted Wood with Finger Jointing Systems by CKM



FJ-15

## **FJ-15 series: Advanced Manual Systems**

- Simple in design, easy to operate and requires very little maintenance.
- Can do horizontal or vertical jointing up to 6 inches.
- High tolerance of the dimension of raw material, can join block as short as 4.5".
- Spirally stacked carbide tipped cutters are to set up, cuts smoothly, and virtually eliminates rip-out, tear-out and vibration.

# ADVANCED MANUAL FINGER JOINTING SYSTEMS

## FJ-15A for low production and FJ-15B for medium production

The most economic systems to reclaim valuable wasted wood

CKM, a world-class woodworking machinery manufacturer since 1960, has been producing fingerjointing systems for over 15 years. It has over 350 units of finger jointing systems in operation worldwide.

The popularity of CKM finger jointing systems is because the systems are designed with the purpose of finger jointing in mind. The CKM finger jointing systems are simple and innovative in design, easy to set up, require very little maintenance. The simplicity in design does not sacrifice the quality or the performance of the systems. The CKM finger jointing systems are heavy-duty, high precision machines.

CKM offers three levels of systems; the automatic system for high production, the semi-automatic system for medium production, and the manual system for low to medium production.

The FJ-15 is very competitively priced. It is ideal for the shops where production need do not justify the cost of a high production system.

FJ-15A consists of a left-hand finger shaper (F-C51), a glue unit (F-G01), and an assemble press (F-A07). The production rate for FJ-15A is about 5000 linear feet per shift.

FJ-15B consists of FJ-15A and a right-hand finger shaper (F-C52). The addition of right-hand shaper can increase the production to over 10000 linear feet per shift.



## FJ-15 series

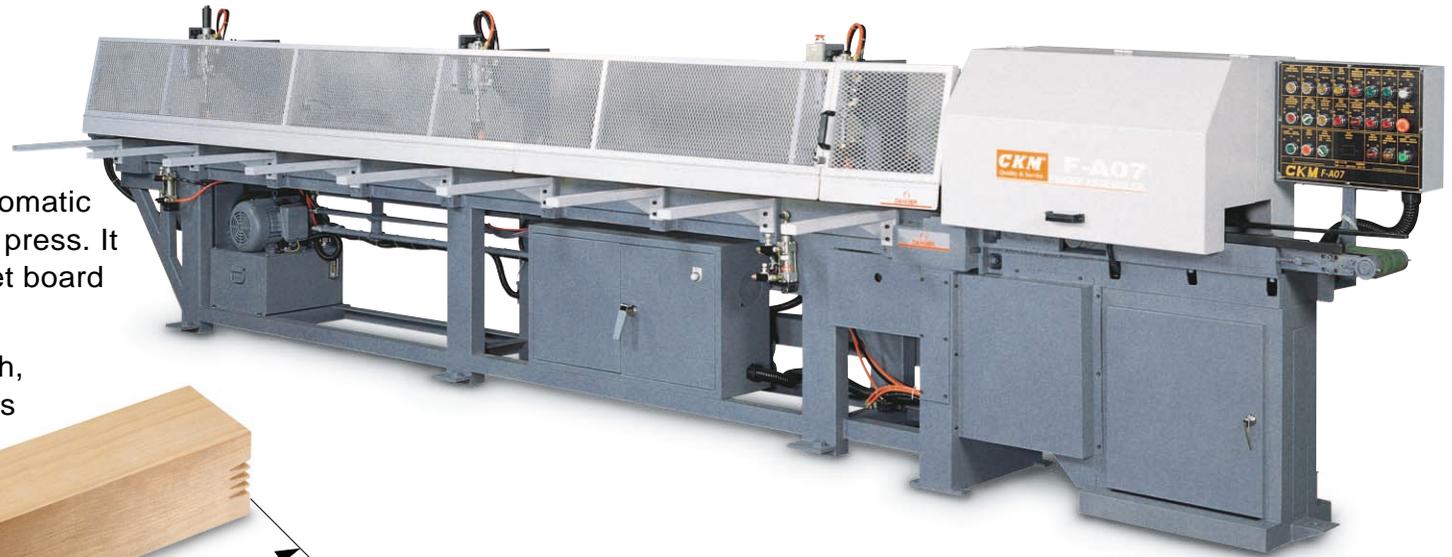
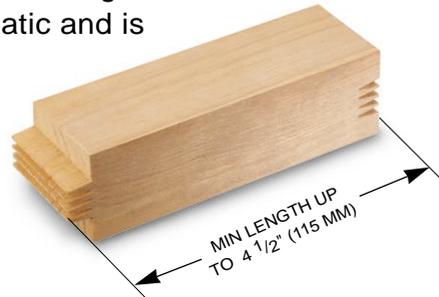
Two Systems, FJ-15A and FJ-15B, to meet your production need:

FJ-15A = F-C51 + F-G01 + F-A07

FJ-15B = F-C51 + F-C52 + F-G01 + F-A07

# F-A07 ASSEMBLE PRESS

- ▶ This Assemble Press consists of an automatic feed unit, a cut-off saw, and a hydraulic press. It can assemble up to 2 pieces of 14.5 feet board per minute.
- ▶ The cycle of feeding, cutting off at length, pressing and ejection is automatic and is controlled by PLC.
- ▶ The powerful hydraulic press ensures tight and strong joint.



# F-C51 (Left) & F-C52 (Right) FINGER SHAPER

- ▶ The Finger Shaper consists of a trim saw, a shaper, and a moving table which cuts the blocks in batches.
- ▶ The batch system has proven to be the most effective system. The batch system allows usage of short blocks as well as longer lengths. The system also allows the same machine to produce vertical and horizontal joints.

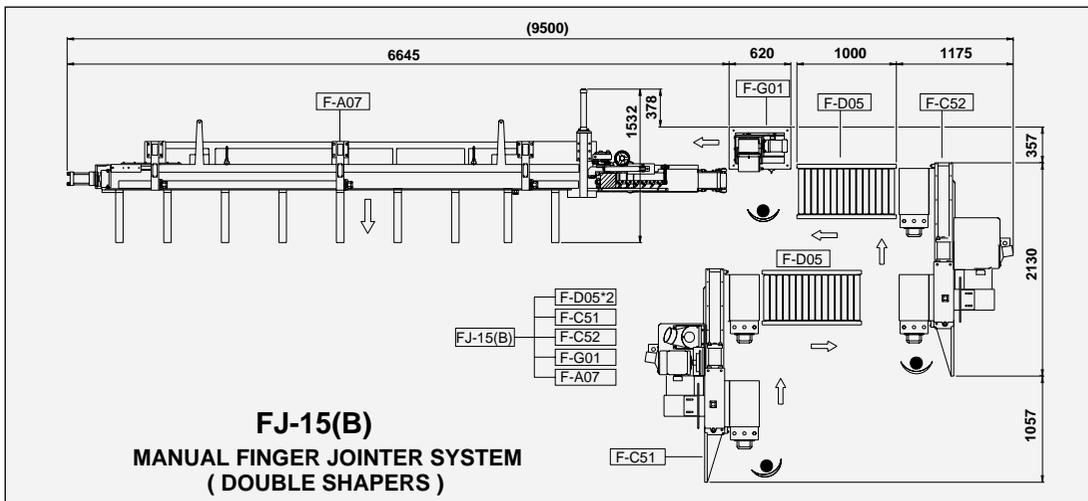
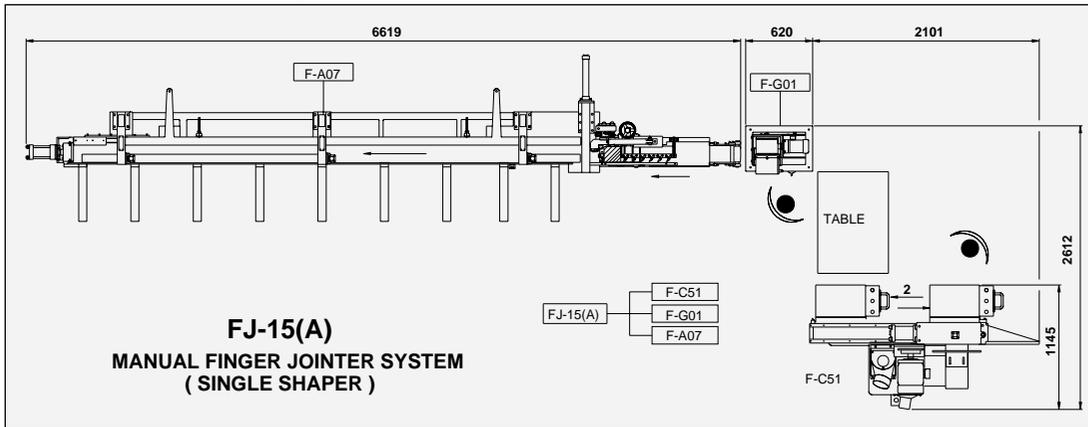


- ▶ Spirally stacked carbide tipped cutters is easy to set up cuts smoothly, and virtually eliminates rip-out, tear-out and vibration.

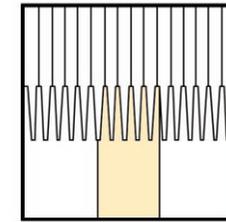
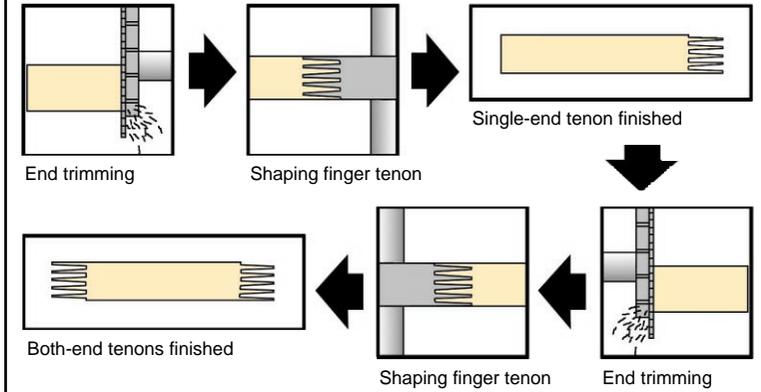


## F-G01: GLUING UNIT

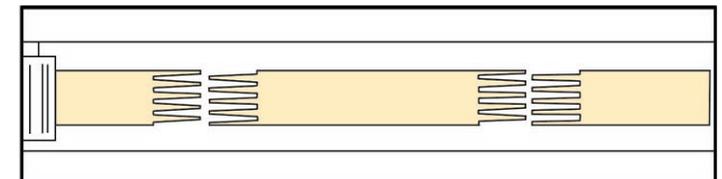
► This gluing unit applies glue to the shaped blocks before Assemble Press.



## Production Flow Chart



Hand gluing operations.



Feed workpiece into the finger assembler.

## FINGER SHAPER

MODEL	F-C51 (Left) / F-C52 (Right)	
Max: available width working table	17 <sup>21</sup> / <sub>32</sub> "	(450 mm)
Range of material length	4 <sup>1</sup> / <sub>2</sub> " ~ 39 <sup>11</sup> / <sub>16</sub> "	(115~1000 mm)
Range of material width	1" ~ 6 <sup>9</sup> / <sub>32</sub> "	(25~160 mm)
POWER REQUIRED		
For trimming saw	5HP (3ph), 5HP (1ph)	
For finger cutter	10HP (3ph), 7 <sup>1</sup> / <sub>2</sub> HP (1ph)	
Dust outlet diameter	6" x 1, 4" x 2	
Machine dimensions ( LxWxH )	70" x 33" x 55"	(1780 x 840 x 1400 mm)
Packing dimensions ( LxWxL )	74" x 37" x 61"	(1880 x 940 x 1550 mm)
Net weight	740 Kgs	
Gross weight	820 Kgs	

## GLUING UNIT

MODEL	F-G01	
Max: workpiece width	6"	(152 mm)
POWER REQUIRED		
	1/8 HP (3ph), 1/8 HP (1ph)	
Overall dimension ( LxWxH )	24" x 16 <sup>1</sup> / <sub>2</sub> " x 33"	(610 x 420 x 840 mm)
Shipping dimension ( LxWxH )	25 <sup>1</sup> / <sub>2</sub> " x 18 <sup>1</sup> / <sub>2</sub> " x 39 <sup>11</sup> / <sub>16</sub> "	(650 x 470 x 1000 mm)
Net weight	78.5 Kgs	
Gross weight	100 Kgs	

## ASSEMBLE PRESS

MODEL	F-A07	
Available length of product	177"	4.5 M
Available thickness of product	2 <sup>13</sup> / <sub>32</sub> "	(60 mm)
Available width of product	6 <sup>9</sup> / <sub>32</sub> "	(160 mm)
Max: assembly pressure	0 ~ 100 kg/cm <sup>2</sup>	
Hydraulic power unit	5 HP (3ph), 3 HP (1ph)	
POWER REQUIRED		
For cut-off saw	5HP (3ph), 5 HP (1ph)	
Machine dimensions( LxWxH )	262" x 37 <sup>3</sup> / <sub>8</sub> " x 55"	(6650 x 950 x 1400 mm)
Packing dimensions ( LxWxH )	291" x 42" x 61"	(7400 x 1065 x 1550 mm)
Net weight	1250 Kgs	
Gross weight	1350 Kgs	

Specifications. and design are subject to change without notice.

- 5HP Air compressor is suggested.
- Optional equipment: F-D05 roller table.