

- Three initial infeed tables.
- Automatic feed to pre-press assemble stand.



Auto Finger Jointing Line



Turn your wood waste into valuable material and create added profits with CKM FL-05 Auto Finger Jointing Line.

Performance-Proven reliability to give you the best value in high speed finger jointing.

When you need fast, automated and efficient finger jointing, consider the advantages created by CKM FL-05 Auto Finger Jointing Line. The entire production line is also ruggedly constructed throughout, featuring maximum stability during high speed production.

Maximum dependability of operational performance is guaranteed, which is backed by the CKM'S rich experience in the field of finger shaping and jointing technology.



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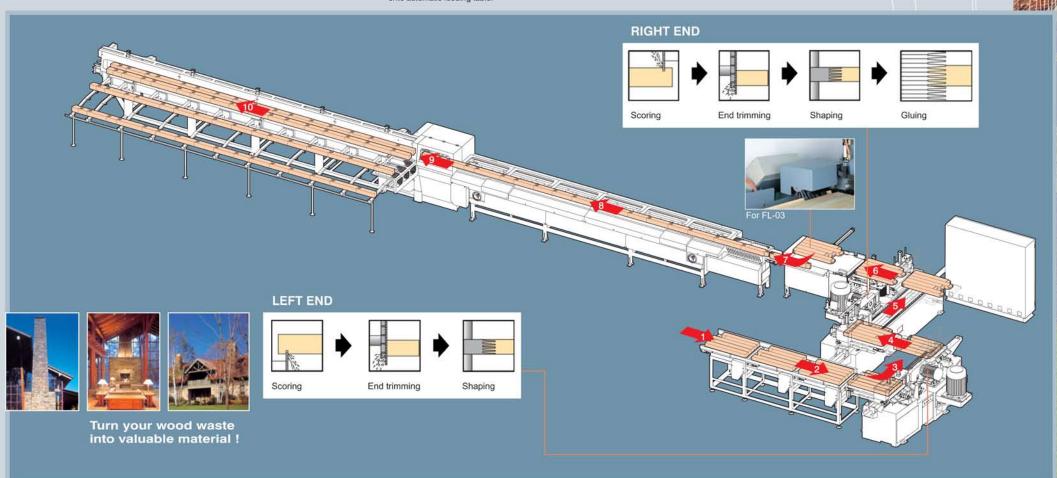


PRODUCTION FLOW CHART

Quality & Serv

PRODUCTION FLOW CHART:

- Automatic initial infeeding of workpieces.
- 2 Automatic feed table.
- **3** F-C05 right finger shaper performs scoring, trimming, and shaping on right end of workpiece.
- 4 Workpieces automatically travel into left finger shaper.
- **5** F-C06 left finger shaper performs scoring, trimming, shaping and gluing on left end of workpiece.
- **6** Workpieces travel onto the standby conveyor, then feed forward onto automatic feeding table.
- **7** Workpiece feed one by one automatically.
- 8 Work pieces automatically feed to pre-press assemble stand.
- **9** Workpieces travel forward for cutting-to-length.
- 10 Finger assembly is performed by a powerful hydraulic system.
- 11 Final product out-feed on staging platform.



F-101

MULTI-STAGE INITIAL CONUEYOR TABLE

 The three initial infeed tables allows for continuous infeed of workpiece.



F-C05

FINGER SHAPER (Right End)

 It combines three functions - scoring, trimming, shaping in a unit on right end of the workpiece.





RIGHT SHAPING MECHANISM

The mechanism performs scoring, trimming, shaping opertions on right end of the workpiece. Scoring blade in front of trimming blade cuts bottom edge to give spimferfree finish. Finger cutters produce smooth finger shape, cutting capacity 6 1/4* thick.



ACCURATE SAWBLADE ADJUSTMENT

The trimming and scoring sawblade position are adjusted on the precision rod guides, which are hard chrome plated for maximum wear resistance. Micrometers are also provided for accurate indication for ajustment, ensuring superior jointing quality.

F-C06





LEFT SHAPING MECHANISM

The mechanism performs scoring, trimming, shaping and gluing operation on left end of the workpiece. Scoring blades cut top and bottom edges to prevent fear-out.



FINGER SHAPER (Left End)

 It combines four functions-trimming, scoring, shaping and gluing on left end of the workpiece.

CUTTER PRESETTER

A cutter presetter is built on the right shaper for convenient cutter assembly.

F-D11

(ON MODEL FL-05) MANUAL WORKPIECE TURN-OVER

- The workpieces are turned-over before feeding to automatic feeding table.
- At this station, the operator may inspect cutting quality produced by finger shapers.

F-D01

AUTOMATIC FEEDING TABLE (ON MODEL FL-03)

- Located in front of prepress assemble stand this automatic feeding table allows workpieces to feed, on by one, eliminating operator's efforts.
- Workpieces turn-over are made by a ateel brush roller.



maximum 4 times of cut setting.

F-A03

ASSEMBLE PRESS

- The assemble press employs two hydraulic cylinder at front and rear, providing more powerful and faster jointing performance.
 This special design also assure extremely consistent jointing effect on the entire wood.
- The assemble press joints short stoch to produce long board length up to 6200mm.
- A synchronized 2-step process allows the back of the press to continue jointing and cutting to length while the front of the press is performing pressing and autfeed motions.
- . Times of cut are controlled by limit switches, which permits for



F-T03 / F-T05

F-T03 CHAIN TYPE PRE-PRESS ASSEMBLE STAND (LESS INFEED CONVEYOR TABLE)

F-T05 CHAIN TYPE PRE-PRESS ASSEMBLE STAND

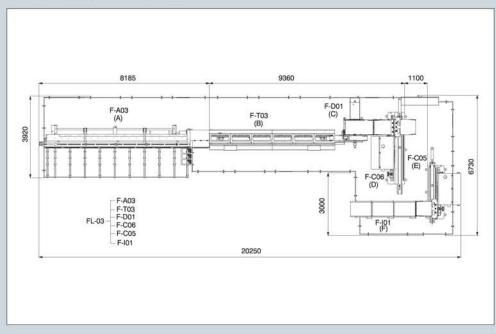
- The pre-press assemble stand employs chain feed, and provides 3 and 6 meters of length to choose from.
- This assemble stand provides prepressed board ready to be cut to length, and ensures accurate vertical and horizontal alignment of finger joint.
 The pre-press is fully synchronized with cut-to-length process.



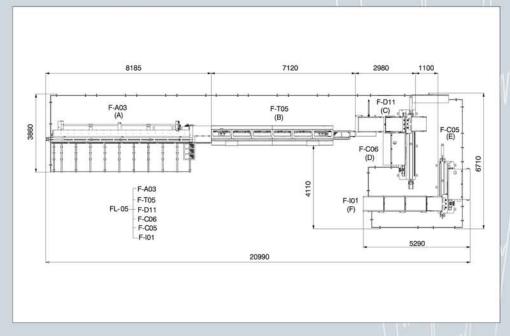












ASSEMBLY STAND

FL-03 —	F-I01	THREE INITIAL INFEED TABLES	FL-05 —	F-I01	THREE INITIAL INFEED
	F-C05	FINGER SHAPER (Right End)	TABLES		
	F-C06	FINGER SHAPER (Left End)		F-C05	FINGER SHAPER (Right End)
	F-D01	AUTOMATIC FEEDING TABLE		F-C06	FINGER SHAPER (Left End)
		(on model FL-03)		F-D11	MANUAL WORKPIECE TURN-
	F-T03	PRE-PRESS ASSEMBLE STAND	OVER		
	F-A03	ASSEMBLE PRESS			(on model FL-05)
				F-T05	CHAIN DRIVE PRE-PRESS

SPECFICATIONS

MULTI-STAGE INITIAL CONUEYOR TABLE F-I01		
Conveyor table width	650mm	
Table height	860mm	
Feed drive motor	1HPx3	
Overall length	3250mm	
Overall width	860mm	
Overall height	960mm	
Packing dimensions (LxHxW)	3350x1175x960mm	
Combined packing dimensions (LxHxW)	4190x1175x1780mm	
FINGER SHAPER (RIGHT END) F-C05		
Max. working width	650mm	
Range of material length	150-1000mm	
Range of material height	30-160mm	
Table feed speed (Air/hydraulic combiluation cylinder)	0~20m/mim	
Trim saw speed	2800 rpm (50hz), 3400rpm (60hz)	
Finger cutter speed	5000rpm	
Scoring saw speed	2800 rpm (50hz), 3400rpm (60hz)	
MOTOR HORS		
For table drive	1/2HP	
For scoring saw	1HP	
For trimming saw	10HP	
For finger cutter spindle	20HP	
Finger cutter spindle dia.	ø50mm	
Finger cutter specif. (I.D./Max.O.D.)	ø70/ø160mm	
Dust outlet diameter	6"x2	
Machine dimensions (L x H x W)	3670x1905x2155mm	
Noise level	88.2 Db	
Packing dimensions (LxHxW)	3810x2120x2270mm	

FINGER SHAPER (LEFT END)	F-C06
Max, working width	650mm
Range of material length	150-1000mm
Range of material height	30-160mm
Table feed speed (Air/hydraulic)	0~20m/mim
Trim saw speed	2800 rpm (50hz), 3400rpm (60hz)
Finger cutter speed	5000rpm
Upper scoring saw speed	2800 rpm (50hz), 3400rpm (60hz)
Lower scoring saw speed	2800 rpm (50hz), 3400rpm (60hz)
MOTOR HORSEPOWER	
For table drive	1/2HPx2
For upper scoring saw	1HP
For lower scoring saw	1HP
For trim saw	10HP
For finger cutter spindle	20HP
Finger cutter specif. (I.D./Max.O.D.)	Ø70/Ø160mm
Dust outlet diameter	6"x2
Machine dimensions (L x H x W)	4160x1905x2155mm
Noise level	88.2 Db
Packing dimensions (LxHxW)	4855x2120x2270mm
+ NOTE: «Form Clamping collers with	various thickness for finance

*	NOTE: ø50mm Clamping collars with various thickness for finger
	cutter ane optional accessories to be ordered.

PNEUMATIC FEEDING TABLE	F-D11
Conveyor table width	650mm
Table height	860mm
Feed drive motor	1HP
Overall length	1420mm
Overall width	1790mm
Overall height	975mm

F-D01

AUTOMATIC FEEDING TABLE

CHAIN DRIVE PRE-RESS ASSEM	MBLY STAND F-T03
Max. pre-press length	6000mm
Range of workpiece width	15-200mm
Range of workpiece height	15-100mm
Feed speed	80m/mim
MOTOR HORSEPOWER	
For left transmission	2HP
For right transmission	2HP
Machine dimensions (LxHxW)	6035x1060x1000mm
Noise level	70 Db
Packing dimensions (LxHxW)	6070x1275x1120mm

Conveyor table width 650mm Table height 860mm Range of material length 100-1000mm 30-160mm Range of material height MOTOR HORSEPOWER 1HP Feed drive motor 2HP Outfeed drive motor 1/8HP Brush roller drive motor Overall length 1540mm Overall width 1545mm Overall height 2450mm

[★] NOTE: Ø50mm Clamping collars with various thickness for finger cutter ane optional accessories to be ordered.

SPECFICATIONS

ASSEMBLE PRESS (DOUBLE SIDES PRESSING)		F-A03
MODEL	6M	6.8M
Max. product length	6200mm	6800mm
Range of material width	15-160mm	15-160mm
Range of material height	15-60mm	15-60mm
Feed speed	80m/mim	80m/mim
Range of pressing pressure	0~150Kgs/ cm²	0~150Kgs/ cm²
Production rate	5pcs/mim	5pcs/mim
MOTOR HORSEPOWER		
For feeding	2HP	2HP
For hydraulic pump	7-1/2HP	7-1/2HP
For sizing	5HP	5HP
Saw arbor diameter	ø1" (ø25.4mm)	ø1" (ø25.4mm)
Dust outlet diameter	4" (101.6mm)	4" (101.6mm)
Machine dimensions (LxHxW)	7670 x 1370 x 1510mm	8270 x 1370 x 1510mm
Noise level	84Db	84Db
Packing dimensions (LxHxW)	7745 x 1585 x 1150mm	8345 x 1585 x 1150mm

CHAIN DRIVE PRE-PRESS ASSEMBLY	F-T05	
MODEL	зм	6M
Max. pre-press length	3000mm	6000mm
Range of workpiece width	15-200mm	15-200mm
Range of workpiece height	15-100mm	15-100mm
Feed speed	80m/mim	80m/mim
MOTOR HORSEPOWER		
For table drive	2HP	2HP
For left transmission	2HP	2HP
For right transmission	2HP	2HP
Machine dimensions (LxHxW)	4130x1060x1000mm	7130x1060x1000mm
Noise level	70 Db	70 Db
Packing dimensions (LxHxW)	4230x1160x1100mm	7162x1275x1120mm



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