



H-3012CSP Fully Automatic Finger-Jointing Line

*Integrated servo finger shaping, glue application, pre-assembly, alignment,
continuous pressing, and cut-off for solid-wood components.*

HC WoodTech Product Introduction

Prepared by HC WoodTech International Trade Team

1. About HC WoodTech



HC WoodTech is a woodworking machinery solutions provider focused on solid wood and panel processing. We deliver integrated equipment and production line systems for furniture factories, door manufacturers, architectural wood producers, prefabricated housing components, pallet production, and engineered wood applications.

Our work combines machine selection, line design, installation coordination, technical service, and long-term production support, helping customers improve automation, efficiency, yield, and overall factory performance.

2002	1,200+	40+	Global
Founded	Factory projects	Engineers	Market support

What we do	Factory layout planning, production line design, AI-based equipment configuration, equipment installation, commissioning, process optimization, operator training, and technical guidance.
Why choose us	AI-driven manufacturing expertise, proven factory project experience, one-stop solutions, strong engineering support, and sustainable production thinking.
International markets	North America, Europe, Middle East, Asia-Pacific, South America, Eurasia, and Africa.

Our Growth Journey



2002
Heze, China
Established the business



2007
Qingdao, China
Expanded operations



2013
Linyi, China
Opened new branch



2016
Weifang, China
Strengthened regional presence



2024
Muar, Malaysia
Entered Southeast Asia



2026
North America
Began North America market expansion

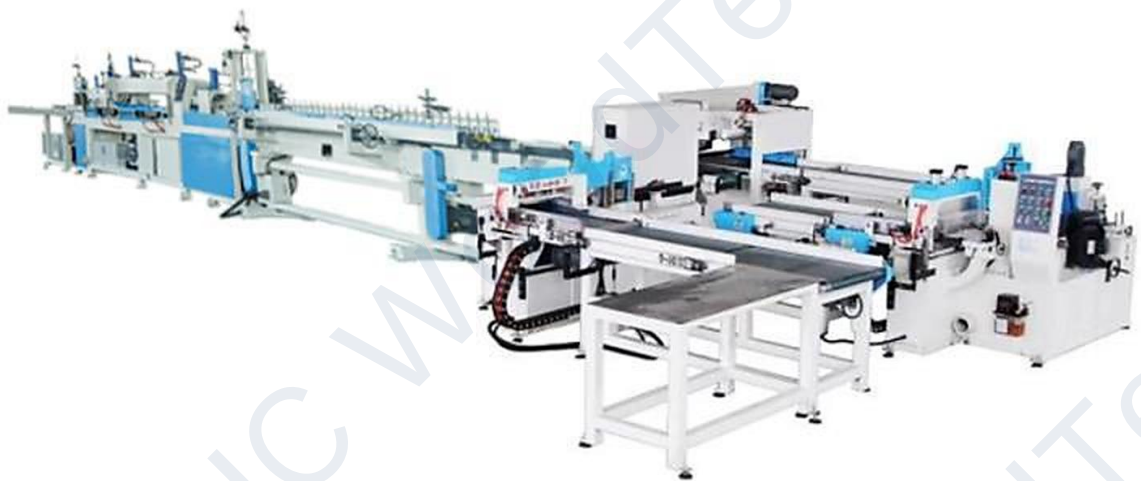
Officially Authorized

 QCM Machinery • Since 2007 • Global market development • Top-tier authorized dealer	 Nanxing Machinery • Since 2007 • Founding equity holder • Exclusive authorized dealer	 Mustang Machinery • Since 2024 • Officially authorized
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2. Product Summary

150-850 mm Finger-shaping length	18-150 mm Finger-shaping height	8-80 m/min Press feed speed	3,000 mm Pressing length per cycle
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Item	Description
Machine	H-3012CSP Fully Automatic Finger-Jointing Line
Product brand	Licheng
System type	Fully automatic vertical servo finger-jointing line with belt conveying.
Control	HMI operation, PLC control, control-panel fault-point display, and two-stage control.
Main process	Material staging, servo finger shaping on both ends, automatic glue application, transfer, pre-assembly, alignment, continuous pressing, and cut-off.
Processing material	Solid-wood strips and components prepared for finger jointing.
Supply scope	One linked system comprising modules A through K as listed in this document.



H-3012CSP fully automatic finger-jointing line overview

3. System Overview

The line combines two servo finger shapers with linked transfer, turnover, glue application, chain-feed pre-assembly, alignment, and continuous pressing. The connected layout reduces manual transfers between the principal processing stages.



Integrated line arrangement

Process Flow

1

Material staging

2

First-end shaping

3

Turnover and transfer

4

Second-end shaping and glue

5

Chain-feed pre-assembly

6

Alignment

7

Continuous pressing and cut-off

Control Feature	Function
HMI and PLC	Central operation and sequence control for the linked system.
Fault-point display	The control panel identifies fault locations for quicker troubleshooting.
Two-stage control	Two-stage operating control for the linked line.

4. Servo Finger Shaping Units

The H-800S3 and H-800S4 form the main finger-shaping section. The H-800S4 adds an upper grooving saw and an automatic glue applicator while retaining the lower grooving-saw configuration.

Specification	H-800S3	H-800S4
Configuration	Lower grooving saw; belt conveyor; cut-off saw; 50 mm finger-joint spindle	Upper and lower grooving saws; belt conveyor; cut-off saw; 50 mm finger-joint spindle; automatic glue applicator
Working table width	810 mm	810 mm
Processing length	150-850 mm	150-850 mm
Processing height or thickness	18-150 mm	18-150 mm
Grooving saw speed	2,840 rpm	2,840 rpm
Finger-joint spindle speed	6,750 rpm	6,750 rpm
Table servo drive	2.3 kW	2.3 kW
Finger-joint spindle motor	15 HP	15 HP
Cut-off saw motor	Heavy-duty spindle; 5 HP; 5,000 rpm	Heavy-duty spindle; 5 HP; 5,000 rpm
Grooving saw motor	2 HP	2 HP x 2
Feed motor	0.5 HP	0.5 HP
Dust extraction ports	100 mm diameter x 4; 125 mm diameter x 2	100 mm diameter x 4; 125 mm diameter x 2

- Both finger shapers use servo-driven working tables.
- The H-800S4 integrates automatic glue application into the second shaping stage.
- The stated dust-port quantities apply to each finger shaper.

5. Transfer and Pre-Assembly Modules

The line includes dedicated staging, feeding, turnover, conveying, vacuum, pre-assembly, and alignment equipment between the two finger shapers and the continuous press.

Module	Component	Technical Data
A	Stainless steel staging table	Table size: 700 x 1,500 mm
B	Infeed platform	Table size: 810 x 900 mm; feed motors: 1 HP x 2
E	Intermediate feed platform	Table size: 810 x 1,600 mm; feed motor: 1 HP
F	Turnover platform	Feed motor: 0.5 HP; turnover travel motor: 1 HP
G	Belt conveyor head	Feed length: 2,000 mm
H	Vacuum unit	Motor: 3 HP
I	Automatic chain-feed pre-assembly unit	Feed table: 600 x 5,000 mm; drive motors: 1 HP x 2; chain: 08B-2
J	Alignment platform with dual roller feed	Table size: 450 x 1,000 mm; geared motors: 2 HP, 1:10 ratio, with brake x 2

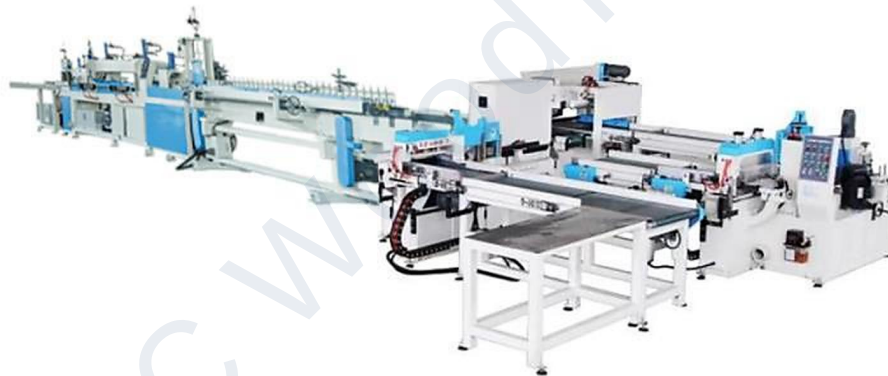
Linked Line Configuration

The complete supply consists of the modules above together with the H-800S3, H-800S4, and H-3012CSP units. The belt and chain conveying stages connect the shaping, glue, pre-assembly, alignment, and pressing operations.

6. H-3012CSP Continuous Pressing Unit

The H-3012CSP is the final joining and cut-off unit in the line. It receives pre-assembled finger-jointed stock, applies hydraulic pressing force, feeds the joined material continuously, and cuts it to the required production length.

Item	Specification
Configuration	Belt conveyor with two pneumatic pressure-feed units
Pressing length per cycle	3,000 mm
Outfeed table length	2,800 mm
Processing width	30-120 mm
Processing thickness	18-50 mm
Feed speed	8-80 m/min
Cut-off saw speed	5,000 rpm
Maximum pressing pressure	6 kg/cm ²
Maximum hydraulic pressure	140 kg/cm ²
Saw motor	5 HP
Hydraulic pump motor	10 HP



H-3012CSP line reference image

Scope Note

Finger-joint cutters are not included with the equipment.

7. Service and International Support

HC WoodTech supports machine selection, project coordination, installation planning, commissioning, operator guidance, and after-sales communication for international customers.

Service Stage	Support Scope
Pre-sales	Application review, workpiece and output analysis, machine selection, and preliminary line configuration.
Project delivery	Process-flow confirmation, site-layout coordination, installation requirements, operating guidance, and training support.
After-sales	Technical communication, troubleshooting support, spare-parts coordination, and service planning.



International project coordination and customer support

Contact

Contact Item	Information
International support	HC WoodTech
Website	https://hcwoodtech.com
Product document	H-3012CSP Fully Automatic Finger-Jointing Line

For quotations and technical discussions, contact your HC WoodTech representative.