



World Wide

IVORY COST

GABON

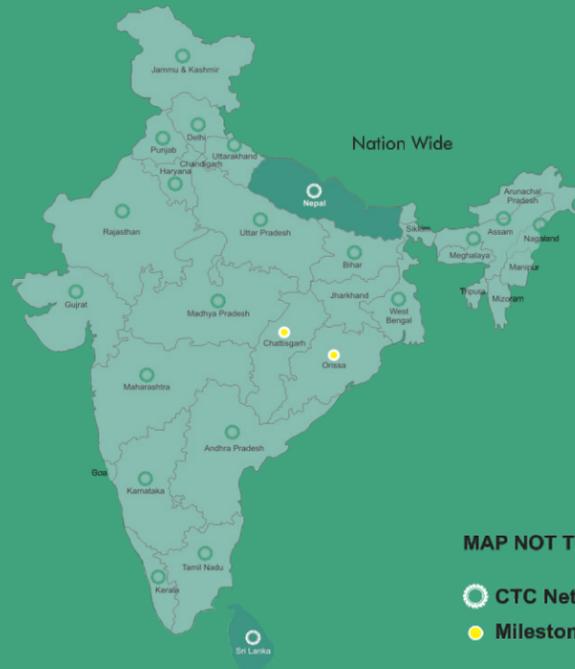
TANZANIA

SRI LANKA

POLAND

INDIA

NEPAL



Nation Wide

MAP NOT TO SCALE

○ CTC Network

● Milestones in progress

**CTC NETWORK:**

New Delhi | Punjab | Haryana | Uttarakhand | Uttar Pradesh | Gujrat | Madhya Pradesh | Bihar | West Bengal  
 Karnataka | Kerala | Assam | Meghalaya | Nagaland | Rajasthan | Andhra Pradesh | Tamil Nadu  
 Nepal | Gabon | Sri Lanka | Ivory coast | Poland ( Europe )



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**CHOPAL ENGINEERING PVT. LTD.**  
 FURNITURE & PANEL PROCESSING MACHINES



**COMPANY PROFILE CUM  
 PRODUCT PROTFOILIO 2026-2027**

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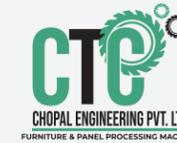
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Established in 1992, Chopal Engineering Pvt. Ltd. (CTC) has emerged as a leading name in veneer solutions with high-tech machinery for manufacturing units in Plywood and Wood Industry. Association with Sagar Plywood has served the company well not just in terms of experience and expertise but also in understanding the market and giving customer satisfaction the requisite importance. It was incepted by leaders in the plywood manufacture business as they were well versed with the troubles that plagued the industry. The quest to conquer the problems drove them to find effective solutions. Distressed by low wood recovery, quality issues, breakdown and much more, they introduced the most advanced technological solutions in terms of machinery that was fully computerised, controlled log management, was cost effective, experienced less breakdown and negligible thickness variations. While the traditional hydraulic machinery was good only with fresh wood log, the new machines produce high quality veneer with dry wood too. As a long-term partner, a trusted and cost effective solution provider, CTC has rightfully earned the crown for the most preferred company.

WE ARE

Chopal Engineering Pvt. Ltd. is a quality driven name that comes with the backing of name that comes with the trust, earned with years of experience in the field and consistently high quality standards. From manufacturing veneer, the company has grown to encompass in its fold the manufacture and supply of machines for crafting veneer. With technology sourced from global leaders, the machinery is adapted to match Indian standards and Industry requirements. While maintaining the momentum it has shown exponential growth in last two years. It has sold more than 500 machines, with the focus on providing high quality machinery and thorough after service in India , Nepal , Gabon , Ivory Coast, Poland and Sri Lanka. Leaving no stone unturned when it comes to delivering services or products. Innovation, Efficiency, Productivity and Customer Satisfaction are the hallmarks of the company that prides itself for its peerless products and unmatched after sales services that are an integral part of the brand experience.

LOG IN TO A WORLD OF FINESSE!



## OUR ESTEEMED CLIENTS



## INTERNATIONAL CLIENTS



MEDIA AND PROMOTION



**CHOPAL ENGINEERING PVT. LTD.**

FURNITURE & PANEL PROCESSING MACHINES

# PANEL SAW MACHINE SECTION

PANEL SAW MACHINE

**CTC R 32**

Panel Saw



## PARAMETER

Max. Sawing Length	3200mm
Max. Sawing Thickness	80mm
Max. Sawing Height @45°	60mm
Main Saw Blade Size	300x30mm
Scoring Saw Blade Size	120x20mm
Main Saw Blade Speed	6000rpm
Scoring Saw Blade Speed	8000rpm
Main Saw Motor Power	5.5Kw
Scoring Saw Motor Power	1.1K w
Machine Size (LxWxH)	3250x3350x1100
Weight	900Kg

**NOTE : BUILT WITH PREMIUM MAS CAST IRON MACHINE BODY**



PANEL SAW MACHINE  
**CTC 6132 H**  
 Panel Saw



**PARAMETER**

Max. Sawing Length	3200mm
Max. Sawing Thickness	80mm
Max. Sawing Height @45°	60mm
Main Saw Blade Size	300x30mm
Scoring Saw Blade Size	120x20mm
Main Saw Blade Speed	6000rpm
Scoring Saw Blade Speed	8000rpm
Main Saw Motor Power	5.5Kw
Scoring Saw Motor Power	1.1K w
Machine Size (LxWxH)	3250x3350x1100
Weight	850Kg



BEAM SAW MACHINE  
**CTC AR330 BEAM SAW**



AR330 Computer Beam Saw is a high-speed, precision cutting machine designed for modern panel processing. With a 3300 × 3300 mm cutting area, 100 mm cutting thickness, and automatic rear loading system, it ensures high productivity and accurate cutting for MDF, particle board, plywood, and laminated panels. Equipped with INVT drive system, Taiwan FATEK PLC, integrated software, and an on-board printer, the AR330 delivers stable performance and easy operation for furniture and panel manufacturers.

**PARAMETER**

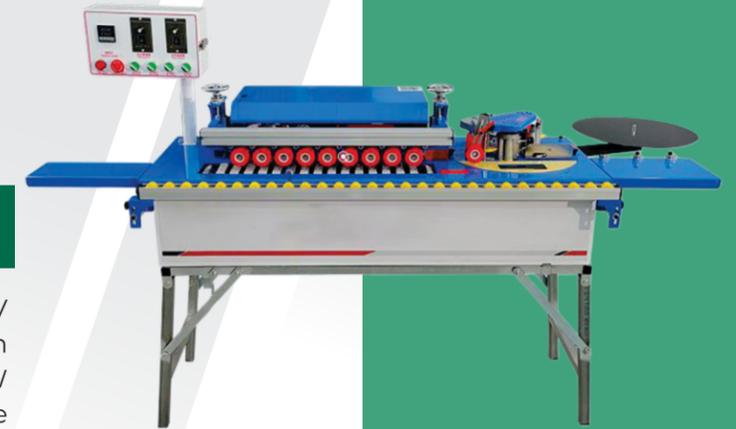
Cutting Area:	3300 × 3300 mm
Rear Auto Loading Size:	3300 × 3300 mm
Max Cutting Thickness:	100 mm
Main Saw Blade:	Ø350 mm
Main Saw Speed:	4800 rpm
Slot Saw Blade:	Ø180 mm
Slot Saw Speed:	6900 rpm
Saw Forward Speed:	100 m/min
Saw Retreat Speed:	150 m/min
Automatic Feeding Speed:	100 m/min
Total Power:	23 kW
Control System:	INVT + Taiwan FATEK
Software:	Included
Printer:	Included
Side Function:	Included

# EDGE BANDING MACHINE SECTION

## EDGE BANDING MACHINE

### CTC ECO

Eco Carpenter Model



### PARAMETER

Voltage	220V
Edge Width	5-50mm
Rated Power	4000 W
Belt Break Method	Automatic Tape Breakage
Heating Time	5-10min
Weight	170Kg
Standard Size	135*64*105cm
Glue Capacity	1000ml

\* Straight sheet: double - sided gluing/stroke switch control to feed off the tape.  
 \*Rectangular with rounded corners.

## EDGE BANDING MACHINE

### CTC 868 (EVA)

Automatic Edge Banding Machine



### PARAMETER

Feed Speed	15-23m/mim
Edge Thickness	0.4-3mm
Sheet Thickness	9-60mm
Sheet Length	±100mm
Sheet Width	± 80mm
Total Power	24Kw
Weight	4000Kg
Dimensions	8000x950x1695mm



\* Pneumatic Control Quick Flush Tracking Trimming Double Glue Pot Scuttle Polishing

# EDGE BANDING MACHINE CTC 968 (PUR+EVA)

With 13 Features

Smart Automation System with Centralized Lubrication, Premium Electricals and Pneumatic, and WiFi Remote Control Connectivity so you can control the machine from your mobile.



## PARAMETER

Overall Dimensions	10800*950*1650
Total Weight	4.5
Total Power	27
Voltage	415
Pressure	≥0.75
Thickness of Panel	≥80mm
Thickness of Edge Banding	0.4-3mm
Sheet Length	≥150mm
Touch Screen	10"
PUR Machine	Optional



This Image For Reference Only\*

## CONFIGURATION

<b>Touch Screen</b>	The touch screen adjust temperature control and adopts module control for the machine.
<b>Guide plate</b>	Ensures high-precision 90° perpendicular alignment of the panel for accurate and consistent processing.
<b>Pre- Milling</b>	Diamond cutters remove burrs and uneven traces from the panel edge, ensuring smooth surfaces for stronger and cleaner edge band bonding.
<b>PUR Glue Pot</b>	Provides stronger, waterproof, and heat-resistant bonding compared to EVA, ensuring superior durability and premium finish. The precise 0.1 mm glue control delivers consistent and high-quality edge adhesion.
<b>Six Wheel Pressing</b>	Provides stronger and more precise bonding than four-wheel systems, ensuring stable glue application and uniform adhesion for both thin and thick veneers.
<b>End Cutting</b>	Automatically trims excess edge banding at the front and rear of the panel. Equipped with high-frequency motors and automatic profiling to ensure smooth and precise cutting results.
<b>Rough Trimming</b>	Pneumatically adjustable R2 six-blade cutters remove excess edge material efficiently, ensuring accurate shaping with high durability and reduced tool wear.
<b>Fine Trimming</b>	Precision fine trimming rounds the edges smoothly, delivering a clean, seamless finish with enhanced edge appearance.
<b>Pneumatic Scraping</b>	Pneumatically adjustable scraper removes knife marks and refines the edge radius, creating a smoother and more attractive finish.
<b>Flat scraping</b>	Removes excess glue and edge material, ensuring a cleaner and smoother panel surface.
<b>Corner Rounding</b>	Automatically smooths and rounds panel corners for a seamless joint and premium finished appearance
<b>Mist spray Cleaning</b>	Cleaning device, fully automatic cleaning of glue and dust, no labor required, no maintenance required, saving manpower and material resources, convenient and fast.
<b>Dual Buffing units</b>	Two independent buffing groups ensure a superior polished finish after edge banding. When equipped with dual glue pots (PUR + EVA), separate buffing units prevent glue contamination and guarantee consistent, high-quality surface finishing for both adhesive systems.

# EDGE BANDING MACHINE CTC 2300 Y-C3

Best Selling Machine

## PRODUCT DESCRIPTION

A) The automatic edge banding machine is equipped with the following functions: Pre-Milling, Glue Pot, End Trimming, Fine Trimming, Pneumatic Scraping, Flat Scraping, and Polishing, ensuring precise edge processing and high-quality finishing.

B) It delivers stable performance with smooth edge feeding and accurate trimming, providing strong bonding and clean surface results suitable for continuous production.

C) The machine body is built with high-strength steel and a rigid welded frame structure, ensuring durability, minimal vibration, and long service life.

## PRODUCT HIGHLIGHTS

Designed for cabinet and panel furniture edge banding applications, this model is our most economical and best-selling machine, offering reliable performance, smooth finishing, and excellent value for modern woodworking production.



## TECHNICAL SPECIFICATION

Machine Type:	CTC 2300 Y-C3
Dimension:	3600*750*1600MM
Weight:	3000 Kg
Total Power:	17Kw
Air Pressure:	0.7-0.9MPa
Sheet Length:	>150mm
Sheet Width:	>80mm
Sheet Thickness:	12-55mm
Edge Band Thickness:	0.4-3mm
Feed Rate:	15-23m/min
Voltage:	415V50Hz

## SIX FEATURES

- 1) Pre-Milling
- 2) Gluing
- 3) End Trimming
- 4) Fine Trimming
- 5) Pneumatic Scraping
- 6) Polishing

## EDGE BANDING MACHINE

### CTC 2300 YC-C3

With Corner Rounding

#### PRODUCT DESCRIPTION

A) The automatic edge banding machine is equipped with the following functions: Pre-Milling, Glue Pot, End Trimming, Fine Trimming, Corner Rounding, Pneumatic Scraping, Flat Scraping, and Polishing, ensuring precise edge processing and a premium finishing result.

B) The advanced Corner Rounding Unit is specially designed to handle thicker edge banding materials, creating smooth, seamless curved corners for enhanced durability and an outstanding aesthetic appearance.

C) The machine body is constructed from high-strength steel with a rigid welded frame structure, ensuring excellent stability, reduced vibration, and long service life.

#### PRODUCT HIGHLIGHTS

Designed for cabinet and panel furniture edge banding applications, this model offers reliable performance, smooth finishing, and excellent value for modern woodworking production.



#### TECHNICAL SPECIFICATION

Machine Type:	CTC 2300 YC-C3
Dimension:	3900*750*1600MM
Weight:	3100 Kg
Total Power:	18Kw
Air Pressure:	0.7-0.9MPa
Sheet Length:	>150mm
Sheet Width:	>80mm
Sheet Thickness:	12-55mm
Edge Band Thickness:	0.4-3mm
Feed Rate:	15-23m/min
Voltage:	415V50Hz

#### SEVEN FEATURES

- 1) Pre-Milling
- 2) Gluing
- 3) End Trimming
- 4) Fine Trimming
- 5) Pneumatic Scraping
- 6) Corner Rounding
- 7) Polishing



**CHOPAL ENGINEERING PVT. LTD.**

FURNITURE & PANEL PROCESSING MACHINES

# NESTING MACHINE SECTION

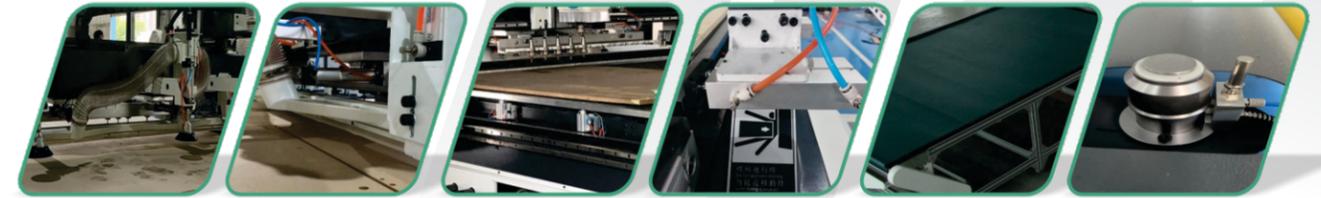
## NESTING MACHINE

### CTC NA 49 F

Syntec Automatic Loading  
& Unloading Machine

#### TECHNICAL PARAMETER:

- \* China brand CC 9.0Kw spindle, ISO 30.
- \* Syntec controller.
- \* Inovance 850Kw absolute servo & motor.
- \* 12-position linear tool magazine.
- \* Double-layer CNC Nesting vacuum table.
- \* New dust - free design for dust collector hood.
- \* Germany Becker vacuum pump 5.5Kw 250CBM/H.
- \* With press roller
- \* It works with all industry standard CAD/CAM software.



#### MACHINERY SPECIFICATION

Table size	1220x2800mm
Operating stroke	
x axis	1320mm
y axis	2900mm
z axis	250mm
Working height	150m/min
Maximal traveling feed	
x Axis	60m/min
Y Axis	60m/min
z Axis	20m/min

#### MACHINERY SPECIFICATION

Spindle	China brand CC9.0Kw	1
Inverter	Hpmont Inverter	1
CNC controller	Syntec 60 CA	1
Driving system	Inovance 850kw servo motor & driver for xyz axis	4
Planetary reducer	Japan shimpo reducer VRSF-8C-1000-LV, ratio 1:8 for xy axis motors	3
Transmission system	30mm linear rail & Taiwan JT helical rack & pinion for X & Y axis: 25mm linear rail & ball screw for Z axis	
Tool magazine	12- position linear tool magazine	1
Vacuum pump	Germany becker Vacuum pump 5.5Kw 250CBM/H	1
Dust collector	5.5 Kw Dust collector	1
Material alignment cylinder		7
Vacuum table	PVC double layer vacuum table	1
Calibration system	Tool sensor	1
Oil supply system	Auto lubricant pump	1
Press roller	Press roller	1
Scissor life table	loading	1
Belt conveyor	unloading	1
butterfly		1

#### QUANTITY

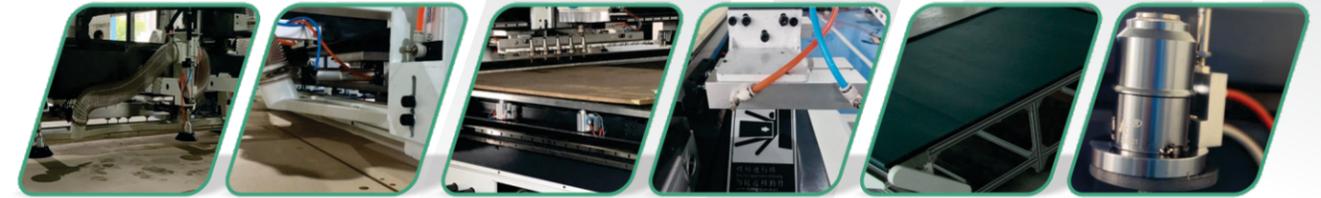
## NESTING MACHINE

### CTC YA 49 F

LNC Controller Automatic Loading & Unloading Machine

#### TECHNICAL PARAMETER:

- \* China brand CC9.0Kw ATC spindle, ISO 30.
- \* LNC controller.
- \* China brand INVT 1.5Kw absolute servo motor.
- \* 12-position linear tool magazine.
- \* Double-layer CNC Nesting vacuum table.
- \* Dust collector hood.
- \* Germany Becker vacuum pump 5.5Kw 250CBM/H.
- \* It works with all industry standard CAD/CAM software.



#### MACHINERY SPECIFICATION

Table size	1220x2800mm
Operating stroke	
x axis	1320mm
y axis	2900mm
z axis	250mm
Working height	150m/min
Maximal traveling feed	
x Axis	60m/min
Y Axis	60m/min
z Axis	20m/min

#### MACHINERY SPECIFICATION

Spindle	China brand CC9.0Kw	1
Inverter	Hpmont Inverter	1
CNC controller	LNC Controller	1
Driving system	INVT 1.5 KW servo motor & drivers.	4
Planetary reducer	Japan shimpo reducer VRSF-8C-1000-LV, ratio 1:8 for x y axis motors	3
Transmission system	25mm linear rail & helical rack & pinion for X & Y axis: 25mm linear rail & ball screw for Z axis	
Tool magazine	12- position linear tool magazine	1
Vacuum pump	becker Vacuum pump 5.5Kw 250CBM/H	1
Dust collector	5.5 Kw Dust collector	1
Material alignment cylinder		10
Vacuum table	PVC double layer vacuum table	1
Calibration system	Tool sensor	1
Oil supply system	Auto lubricant pump	1
Scissor life table	loading	1
Belt conveyer	unloading	1
butterfly		1

#### QUANTITY

# NESTING MACHINE CTC NA 49 FS

With Label Printer on Side of Spindle

## TECHNICAL PARAMETER:

- \* China brand CC 9.0Kw spindle, ISO 30.
- \* Syntec controller.
- \* Inovance 850Kw absolute servo & motor.
- \* 12-position linear tool magazine.
- \* Double-layer CNC Nesting vacuum table.
- \* New dust - free design for dust collector hood.
- \* Germany Becker vacuum pump 5.5Kw 250CBM/H.
- \* With press roller
- \* Label Printer
- \* It works with all industry standard CAD/CAM software.



## MACHINERY SPECIFICATION

Table size	1220x2800mm
Operating stroke	
x axis	1320mm
y axis	2900mm
z axis	250mm
Working height	150m/min
Maximal traveling feed	
x Axis	60m/min
Y Axis	60m/min
z Axis	20m/min

## MACHINERY SPECIFICATION

Spindle	China brand CC9.0Kw	1
Inverter	Hpmont Inverter	1
CNC controller	Syntec 60 CA	1
Driving system	Inovance 850Kw servo motor & driver for xyz axis	4
Planetary reducer	Japan shimpo reducer VRSF-8C-1000-LV, ratio 1:8 for xy axis motors	3
Transmission system	30mm linear rail & Taiwan JT helical rack & pinion for X & Y axis: 25mm linear rail & ball screw for Z axis	
Tool magazine	12- position linear tool magazine	1
Vacuum pump	Germany becker Vacuum pump 5.5Kw 250CBM/H	1
Dust collector	5.5 Kw Dust collector	1
Material alignment cylinder		7
Vacuum table	PVC double layer vacuum table	1
Calibration system	Tool sensor	1
Oil supply system	Auto lubricant pump	1
Press roller	Press roller	1
Label Printer	American Henoywell	1
Scissor life table	loading	1
Belt conveyor	unloading	1
butterfly		1

## QUANTITY



**CHOPAL ENGINEERING PVT. LTD.**

FURNITURE & PANEL PROCESSING MACHINES

# CNC ROUTER MACHINE SECTION

CNC ROUTER MACHINE  
**CTC 1325 ES**



## PARAMETER

Process Size	1300x2500x250mm
Table Structured	Double surface vacuum adsorption
Spindle	HQD 3.0Kw Air Cooling Spindle
Frequency Inverter	4.5Kw
Control System	NC Studio
Voltage	415
JMC 750W Servo + Shimpo Reducer	High torque, low backlash, precise motion
XYZ Linear Rails	Rigid, smooth, and accurate movement.
T-Slot Aluminium Table	Quick clamping, flexible setup

Intelligent DSP Control System Equipped with an industrial-grade standalone DSP controller for stable motion control, precise positioning, and smooth machining performance — no PC required.

CNC ROUTER MACHINE  
**CTC 1325 VS**  
 with Vacuum Table



**PARAMETER**

Process Size	1300x2500x250mm
Table Structured	Double surface vacuum adsorption
Spindle	HQD 3.0Kw Air Cooling Spindle
Frequency Inverter	4.5Kw
Control System	NC Studio
Voltage	415
JMC 750W Servo + Shimpo Reducer	High torque, low backlash, precise motion
XYZ Linear Rails	Rigid, smooth, and accurate movement.
Vaccum Work Table	5.5KW, flexible setup

Intelligent DSP Control System Equipped with an industrial-grade standalone DSP controller for stable motion control, precise positioning, and smooth machining performance — no PC required.

CNC ROUTER MACHINE  
**CTC RQ 1325 ATC**

High-Performance Automatic Tool Change Machining Center

The RQ1325 Linear ATC CNC Router is a high-precision, heavy-duty machining center designed for modern woodworking and panel furniture manufacturing. Built with advanced automation and premium components, this machine delivers speed, accuracy, and reliability for continuous industrial production

Engineered with a robust welded steel structure and precision five-side machining, the RQ1325 ensures long-term stability and deformation resistance. The integrated Linear Automatic Tool Changer (12-position tool magazine) enables seamless tool switching, significantly improving production efficiency while reducing manual intervention.



**KEY APPLICATIONS**

- Cabinet door panels
- Panel furniture manufacturing
- Solid wood furniture
- Interior composite doors
- Engraving, cutting, slotting, drilling & hollowing

**ADVANCED FEATURES**

- Heavy-duty gantry structure for vibration-free machining.
- Dual-motor Y-axis drive for stable movement.
- Intelligent automatic tool sensor.
- Modular electrical cabinet with overload & short circuit protection.
- Imported high-flexible shielded cables for long service life.
- Optional automatic unloading pusher system.
- Oil mist sprayer for tool cooling.

**PARAMETER**

Working Area:	1300 × 2500 × 250 mm
Spindle:	9.0KW HQD Air-Cooling ATC Spindle, 18,000 RPM
Tool Magazine:	Linear type, 12 tools (ISO30 compatible)
Max Travel Speed:	50 m/min
Max Cutting Speed:	30 m/min
Repositioning Accuracy:	±0.05 mm
Drive System:	Leadshine 1000W AC Servo Motors (XYZ)
Transmission:	
XY Axis-	High-precision rack & pinion
Z Axis-	TBI Ball Screw
Guide Rails:	Taiwan Hiwin square linear rails
Reducer:	Japan Shimpo precision reducer
Control System:	Taiwan LNC Industrial Control System
Worktable:	Double-layer 8-zone vacuum adsorption table
Vacuum Pump:	7.5KW high-flow system
Dust Collection:	Double bag 5.5KW system
Lubrication:	Automatic oil lubrication system

\* Images shown in this catalogue are for reference purposes only. Actual machine appearance, configuration, and specifications may vary without prior notice.



**CHOPAL ENGINEERING PVT. LTD.**

FURNITURE & PANEL PROCESSING MACHINES

# LAMINATION MACHINE SECTION

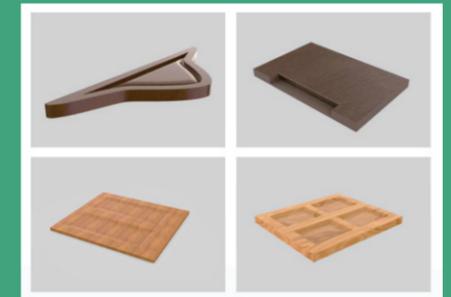
## VACUUM LAMINATION MACHINE

Engineered for superior surface finishing, the CTC Vacuum Membrane Press delivers flawless lamination of PVC membrane foil and HPL (mica) on MDF, plywood, and decorative panels.

With powerful vacuum pressure and uniform heat distribution, it ensures bubble-free bonding, sharp edge wrapping, and premium surface quality — ideal for modular furniture, designer doors, and interior applications.

### CTC FRONT LOADING PRESS

Vacuum Press Machine



#### PARAMETER

Outline Dimension	8250x2500x2200mm
Central Supplying System	≥1.5m <sup>3</sup>
Pressure of Supplying System	≥0.5Mpa
Total Power	30Kw
Total Weight	1100KG
Operating Voltage	415V 50HZ

\* This machine adopts full manganese steel plate structure , six frame plates with thickness of 25mm, two upper & lower beam plates with thickness of 80mm, all of which are cut by whole plate & finished by gantry milling to ensure equipment precision. The whole machine can withstand 500t. pressure, no deformation for many years of use.

## CTC SIDE LOADING PRESS



### PARAMETER

Outline Dimension	2600x2550x2200mm
Central Supplying System	≥1.5m <sup>3</sup>
Pressure of Supplying System	≥0.5Mpa
Total Power	30Kw
Total Weight	800KG
Operating Voltage	415V 50HZ

## HYDRAULIC COLD PRESS MACHINE

The CTC Hydraulic Cold Press Machine is designed for high-pressure bonding of plywood, block board, MDF, and laminated panels. Built with a heavy-duty steel frame and powerful hydraulic system, it ensures uniform pressure distribution, strong adhesion, and reliable performance for furniture and panel production. Ideal for continuous industrial use with stable and efficient operation.

### MACHINE FEATURES

- Heavy-duty welded frame construction.
- High-pressure hydraulic system for strong bonding.
- Uniform pressure distribution for plywood and panel lamination.
- Easy operation with stable and reliable performance.
- Suitable for plywood, block board, MDF panel pressing.

### PARAMETER

Working Table Size	3000 X 1250 / 2500 X 1250 mm
Max. Opening Stroke	1000 / 1300 / 1500mm(Optional)
Hydraulic Cylinders	2 or 3 pcs
Cylinder Diameter	125mm
Max. Pressure	50 / 60 / 100 Ton
Hydraulic Motor Power	4kw
Steel Plate Thickness	14mm
Overall Dimension	3500 x 1250 x 2750 mm
Machine Weight	Approx. 2.2 Tons



This Image For Reference Only\*



**CHOPAL ENGINEERING PVT. LTD.**

FURNITURE & PANEL PROCESSING MACHINES

# MULTI DRILLING MACHINE SECTION

## CTC K4

Multiple Side Hole Drilling Machine



## MACHINE FEATURES

- High-speed multiple spindle configuration for efficient side hole drilling.
- Servo-driven precision positioning for accurate and repeatable processing.
- Dual barcode scanning system for intelligent production integration.
- Automatic dustproof and anti-interference protection system.
- Centralized metered lubrication system.
- Heavy-duty die-cast motor base for stability and vibration reduction.
- High-toughness PVC engineered worktable.
- Custom pneumatic pressing system for firm panel holding.

## APPLICATIONS

- Designed for high-speed drilling of:
- 3-in-1 connector holes
- Blind holes & grooves
- Lamino & Lock fittings
- Hinge holes
- Door lock holes
- Light strip slots
- Various cabinet hardware fittings
- Ideal for modular furniture, wardrobe production, and panel processing factories.

## PARAMETER

Machine Dimension	3600 x 1300 x 1450mm
Work Table	750mm
X- Axis Working Range	0 - 2800mm
Y - Axis Working Range	0 - 50mm
Z- Axis Working Range	0 - 50mm
Maximum Panel Size	2800 x 1300x 50 mm
Lead Screw	25mm high precision ground ball screw
Spindle Configuration	T1/T2 Horizontal, T3/T4 Vertical
Horizontal Spindle Stroke	0 - 50mm
Vertical Spindle Stroke	0 - 120mm
Spindle Motor Power	2.2 KW(T1/T3), 3.5 KW (T2/T4)
Spindle Speed	18000rpm
Drive System	750W Tonghang servo motor(Z axis with Brake)
Control System	Lorenshi barcode scanner dual system
Display	7 inch Touch Screen ( kunlun tongti )
Power Supply	3 phase/ 415v / 50 Hz
Total Power	6 KW

# CTC MA 3050

Multi-Processing CNC Drilling & Milling Center  
Advanced High-Precision Panel Processing Solution



## MACHINE OVERVIEW

- The MA-3050 Multi-Processing CNC Center is a high-performance, multi-functional machine designed for modern modular furniture and panel production.
- Engineered for precision, speed, and reliability, the MA-3050 integrates drilling, milling, hinge boring, Lamello processing, and 45° angle cutting into one compact and efficient system.
- With advanced CNC control, multi-spindle configuration, and premium transmission components, the machine delivers stable high-speed performance and consistent accuracy.

## WORKING SPECIFICATONS

Processing Area	Parameter	Specification
Table Size		800 × 3235 mm
X-Axis Travel		3335 mm
Y-Axis Travel		800 mm
Z-Axis Travel		250 mm
Max Traveling Speed (X Axis)		50 m/min

## APPLICATIONS

- Modular Furniture Manufacturing
- Cabinet Door Processing
- Wardrobe Panels
- Lamello Joint Processing
- Hinge Hole Drilling
- Precision Angle Cutting

## MULTI-SPINDLE CONFIGURATION

The MA-3050 is equipped with a powerful and versatile spindle combination to handle multiple operations simultaneously.

### MAIN PROCESSING SPINDLES

- 1 × 9.0 KW ISO30 ATC Spindle
- \*Air cooling
- \*24000 RPM
- \*High torque, low noise
- \*For routing & heavy milling
- 1 × 6.0 KW Horizontal Spindle
- 1 × 6.0 KW Spindle (45° Angle Cutting, Blade Ø115mm)
- 1 × 2.2 KW Spindle (45° Lamello)
- 1 × 2.2 KW Spindle (Fine Milling)
- 1 × 0.8 KW Spindle (Lamello Lock Hole)
- 1 × 2.2 KW Boring Head (Hinge Drilling)

### PANEL PROCESSING CAPACITY

Operation	Max Length	Max Thickness	Max Width
9KW ISO30 Spindle	3100 mm	80 mm	260 mm
45° Lamello	3100 mm	90 mm	30 mm
45° Angle Cutting	3100 mm	30 mm	30 mm
Lamello Lock Hole	3100 mm	100 mm	140 mm

### CNC CONTROL & DRIVE SYSTEM

- WEIHONG CNC Controller
- Weihong 1KW Servo Motors & Drivers (3 Sets)
- BEST Inverter
- Japan Shimpo Planetary Reducer (8C-1000-LN)
- 8-Position Linear Tool Magazine
- Dual Auto Tool Sensors

### TRANSMISSION SYSTEM

- 25mm High-Rigidity Linear Rails
- Taiwan J&T Helical Rack & Pinion (X-Axis)
- TBI Ball Screw (Y-Axis)
- High Precision Planetary Reducer (Made in Japan)
- Automatic Oil Lubrication Pump

### KEY ADVANTAGES

- Multi-Function in One Machine
- 9KW ISO30 ATC Main Spindle
- 8-Position Automatic Tool Changer
- Japan Planetary Reducer
- Taiwan Transmission System
- American Laser Detection
- 50 m/min High Travel Speed
- 3100 mm Maximum Panel Length

**CTC K2**  
Side Hole Drilling Machine



**MACHINE FEATURES**

- Dual horizontal spindle design.
- Ideal for standard 3-in-1 side holes and dowel holes.
- Stable servo-driven positioning.
- Compact and cost-effective solution.
- Designed for modular furniture factories.

**APPLICATIONS**

- 3-in-1 side holes
- Wooden dowel holes
- Through holes
- Basic slot processing

**PARAMETER**

Machine Dimension	3600 x 1250 x 1300mm
Work Stroke	1800mm
Work Table Height	700mm
Spindle Configuration	Dual Horizontal Air Cooled Spindle
Spindle Power	2 x 2.2KW
Spindle Speed	16000rpm
Rapid Travel Speed	150 m/min
Processing Speed	100-105m/min
Drive System	Servo Driven
Linear Guide	20mm Square linear rails
Ball screw	precision ball screw
Reducer	Taiwan planetary Reducer
Control System	Industrial CNC Control System
Barcode ccanner	Optional
Power Supply	3 phase / 415V / 50Hz

**K2 vs K4 vs MA-3050**

**Model Comparison Overview**

Feature	K2	K4	MA-3050
Machine Category	Economic Side Drilling	Advanced Multi-Spindle	Full CNC Processing Center
Total Spindles	2	4	6 + Boring Head
Vertical Drilling	✗	✓Dual	✓Full CNC Control
ATC Main Spindle	✗	✗	✓9kW ISO30 (24000 RPM)
45° Processing	✗	Limited	✓Dedicated 6kW Spindle
Lamello Processing	✗	Limited	✓0.8kW + 2.2kW
Fine Milling	✗	✗	✓2.2kW
Tool Changer	✗	✗	✓8-Position ATC
Control System	Servo	3 × 750W Servo	WEIHONG CNC + 1kW Servo
Max Speed	100–105 m/min	105 m/min	50 m/min (Heavy CNC Structure)
Production Level	Basic	High Hardware Output	Complete Panel Processing
Ideal For	3-in-1 & Dowel Holes	Hinges & Hardware	Milling, Lamello, Angle Cutting, Full CNC Work

**Positioning Summary**

**K2** → Entry-level, cost-effective solution for basic cabinet drilling.

**K4** → High-speed hardware processing with vertical drilling capability.

**MA-3050** → Premium all-in-one CNC center for complete panel machining and advanced production.

**Production Upgrade Path**

**Basic Drilling** → **Advanced Hardware** → **Full CNC Manufacturing**

# ALUMINIUM CNC MACHINE SECTION

## CTC 550

Aluminium Profile Precision double head cutting saw



### MAIN FEATURE:

- \* The control system uses a fully closed loop design to ensure a greater degree of repeater accuracy.
- \* High precision spindle motor direct saw blade , fixed 45°.
- \* Saw blade feed using gas-liquid damping cylinder drive , cutting stability.
- \* High precision imported cutting blade, cutting section smooth.
- \* Each head two cylinder damping profiles, cutting safe & reliable.

### PARAMETER

power supply	415V / 50Hz
motor power	2x3.0Kw
rotating speed	2800r/min
work pressure	0.6-0.8MPa
cutting length	4300mm
cutting width	150mm
cutting height	255mm
cutting angle	45°
blade specification	550x30mm
Dimensions	6200x1700x1560mm

# CTC 3000N

Aluminium Profile CNC double heads drilling machining center



## SAMPLE



### Processing performance & characteristics:

- \* It adopts Beijing Kunlun Tongtai host computer combined with professional control system software & has a friendly human-machine interface. The equipment is simple & convenient to operate;
- \* It is suitable for milling & drilling of 150mmx150mm aluminium alloy profiles, industrial aluminium & other light alloys, as well as V-PVC profiles & other processing.
- \* Using high-precision linear motion pairs, ball screws & gear racks to ensure smooth operation & high positioning & processing machining accuracy.
- \* Using high-quality high-speed variable frequency electric spindle to ensure processing stability, stable rotation, low noise & strong cutting ability.
- \* With program saving function, easy & fast use.
- \* Workable movement mode, motor rotation movement is precise & stable, patented support. The T-shaped structure of the tight clamping groove can realize automatic flipping of the three-sided motor swing angles of 90° inside & outside & 180° horizontally.
- \* The workpiece fixture can be moved left & right.

## PARAMETER

Model	3000 N
Input Voltage	3- Phase, 380/415V, 50Hz
Total Power	4.5KW X2PCS
Working Air Pressure	0.4-0.6MPa
Air Consumption	100L/min
Milling Cutter Speed	24000r/min
Spindle Speed	high speed
Spindle Power	4.5Kw
X- Axis Travel	1450mm
X- Axis Speed	0-10m/min
Y- Axis Travel	320mm
Y-axis Speed	0-10m/min
Z-axis Stroke	290mm
Z- Axis Speed	0-10m/min
Overall Dimensions	3500mm X 1560mm X 2040mm
Packing Dimensions	3600mm X 1650mm X 2100mm
Weight	2350Kg



**CHOPAL ENGINEERING PVT. LTD.**

**FURNITURE & PANEL PROCESSING MACHINES**

# LASER MACHINE SECTION

## **CTC CO2 LASER**

Engraving Machine

### **FEATURES:**

Touch screen control system , USB offline use , more convenient to use ;add break point continuation function.

>The software is compatible with corel draw, autocad, photoshop and all kind of graphic processing software. Directly original output function , none error.

> Choose high -speed motor and driver, 24 hours long time running without losing step.

>The humanized design makesyou more flexible in production and processing.

> With high quality belt transmission , high speed, high accuracy and wear resistance.

### **SUITABLE MATERIALS:**

Wooden products ,stone, plexiglass, double color plate, plastic cloth, leather, paper, glass and crystal.

### **APPLICATION:**

Advertising, clothing, leather, craft, paper cut toys, wooden craft engraving machine, bamboo carving, crystal carving, special-shaped work piece carving, garment leather.





## PARAMETER

Model	1325 Co2 Laser Cutting Machine
Working size	1300*2500mm
Machine size	3045*2250*1035mm
System	<b>RUIDA</b>
Laser Power	100W/130W/150W
Laser Type	Co2 Laser Tube
Main Board	High Configuration Main Board
Driver	Leadshine Steper Motor & Drive
Guide Rail	High Speed and High Efficiency Linear Guide
Cooling Mode	Water Industry Chiller and Protection System
Machine Size	3500*2300*1300mm
Break Point Continued Carving	With
Positioning Accuracy	<0.01mm
Offline Working	Support
Carving accuracy	0.0125mm
Cutting Thickness	0-25mm
Control System	DSP
Communication Interface	USB
Operation System	Windows XP/ WIN7/ 8
Support Graphics Format	BMP HPGL PLT DST AI
Max Carving Speed	1000mm/s
Max Cutting Speed	400mm/s
Minimum Forming Text	Character 1x1mm, English 0.7x0.7mm
Water Protection	with
Control Software	color screen , touch control system
Compatible Software	Corel draw, autoCAD, Photoshop
Drive Motor	Leadshine 580
Working Voltage	AC 110-220V, 50-60HZ
Working Temperature	0-45 Degree centigrade
Power	Less Than 1600W

## CTC SCREW AIR COMPRESSOR

### PARAMETER

**Power:** 15 kW (20 HP)  
**Operating Pressure:** 10 bar (maximum)

**Air Flow (FAD - Free Air Delivery):** Varies, but generally between 1300 and 2268 l/min. For example, the Atlas Copco G15 model offers 29.1 l/s (104.8 m<sup>3</sup>/hr or 61.7 cfm), according to the Compressor Store.

**Voltage:** 400V / 50Hz / 3 phases is common.  
**Noise Level:** Around 67 dB(A) or lower, depending on the model.

**Dimensions:** Vary by model, but generally around 1200 x 835 x 1220 mm.

**Weight:** Can range from 330 kg to 450 kg



Additional Features and Configurations:

**Integrated Dryer:** Some models include an air dryer to remove moisture from the compressed air, protecting tools and pneumatic systems.

**Tank Size:** May be equipped with a tank, with capacities like 500 liters.

**Cooling:** Air-cooled or water-cooled.

Drive Type: Direct drive or belt drive.

**Control System:** Advanced control systems (like Airpress' ES 4000 S) can optimize performance and integrate the compressor into a network.

**Energy Efficiency:** Many models are designed for energy efficiency, with features like IE3 class synchronous motors notes Airpress.