

**Your Best Partner for Solidwood  
Furniture Manufacturing**  
**Stable | Efficient | Safe | Precision**



**Continuous Innovation | Independent Manufacturing**  
**Excellent Reputation | Excellent Service**

**JAK**

**MACHINERY**

**POSSIBLE IS ANYTHING**



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## COMPANY PROFILE

Founded in 2015, JAK Machinery has become a leader in advanced CNC woodworking technology in India.

With the trust of 300+ customers across the country, we continuously innovate to meet evolving industry needs. Our commitment to safety, speed, and user-friendliness allows us to manufacture cutting-edge yet affordable CNC machines, empowering woodworkers across India.



### Mission

To revolutionize the Solidwood furniture manufacturing process

### Vision

To become & remain the one & only prominent name in Solidwood furniture manufacturing automation



START-UP

REMOTE SUPPORT

TRAINING

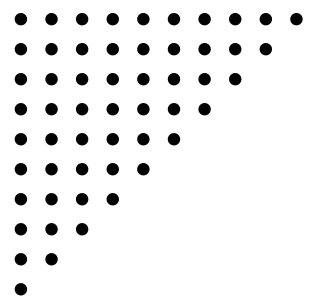
DESIGN SUPPORT

SPARE PARTS

MAINTENANCE CONTRACT

## PRODUCT CATALOG

|                                      |       |
|--------------------------------------|-------|
| ◇◇ CNC ROUTER SERIES_____            | 01-06 |
| ◇◇ CNC 5 AXIS ROUTER MACHINE_____    | 07-08 |
| ◇◇ CNC LATHE SERIES_____             | 09-16 |
| ◇◇ CNC MILLING MACHINE SERIES_____   | 17-20 |
| ◇◇ CNC TENON AND MORTISE SERIES_____ | 21-22 |
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# JAK CNC ROUTERS

Not Just a Machine,  
But the Solutions

**Success Relies On**



Design



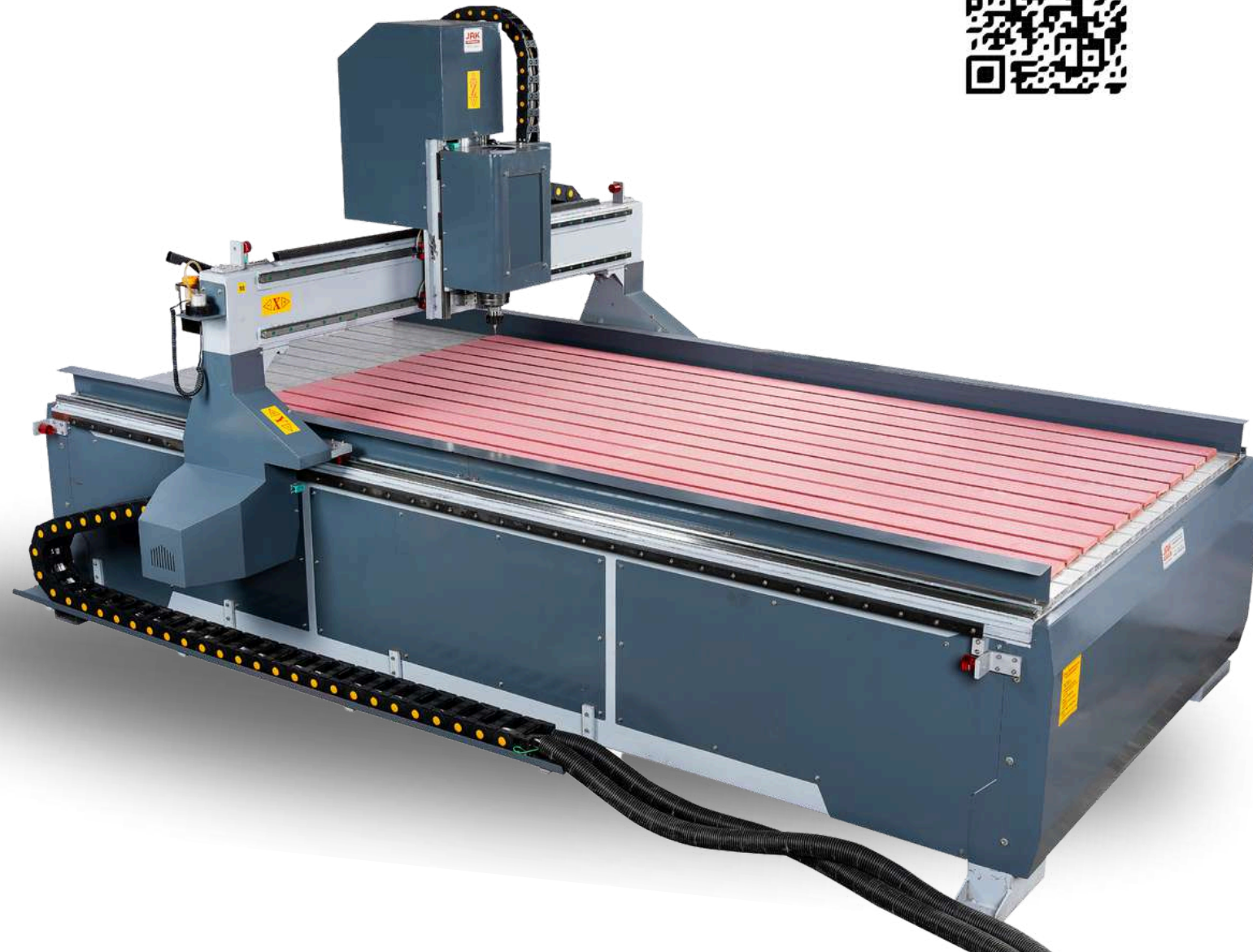
Tooling



Machine

◇ R-MTC  
CNC ROUTER

Scan the qr for operation video



◇ Product Advantage

This is most **basic router model**.

Machine have 3 Axis for various operation like 2D cutting , 3D carving , drilling etc.

The head is called Spindle - which need to install tool manually

◇ Equipment Detail



◇ Configuration instructions

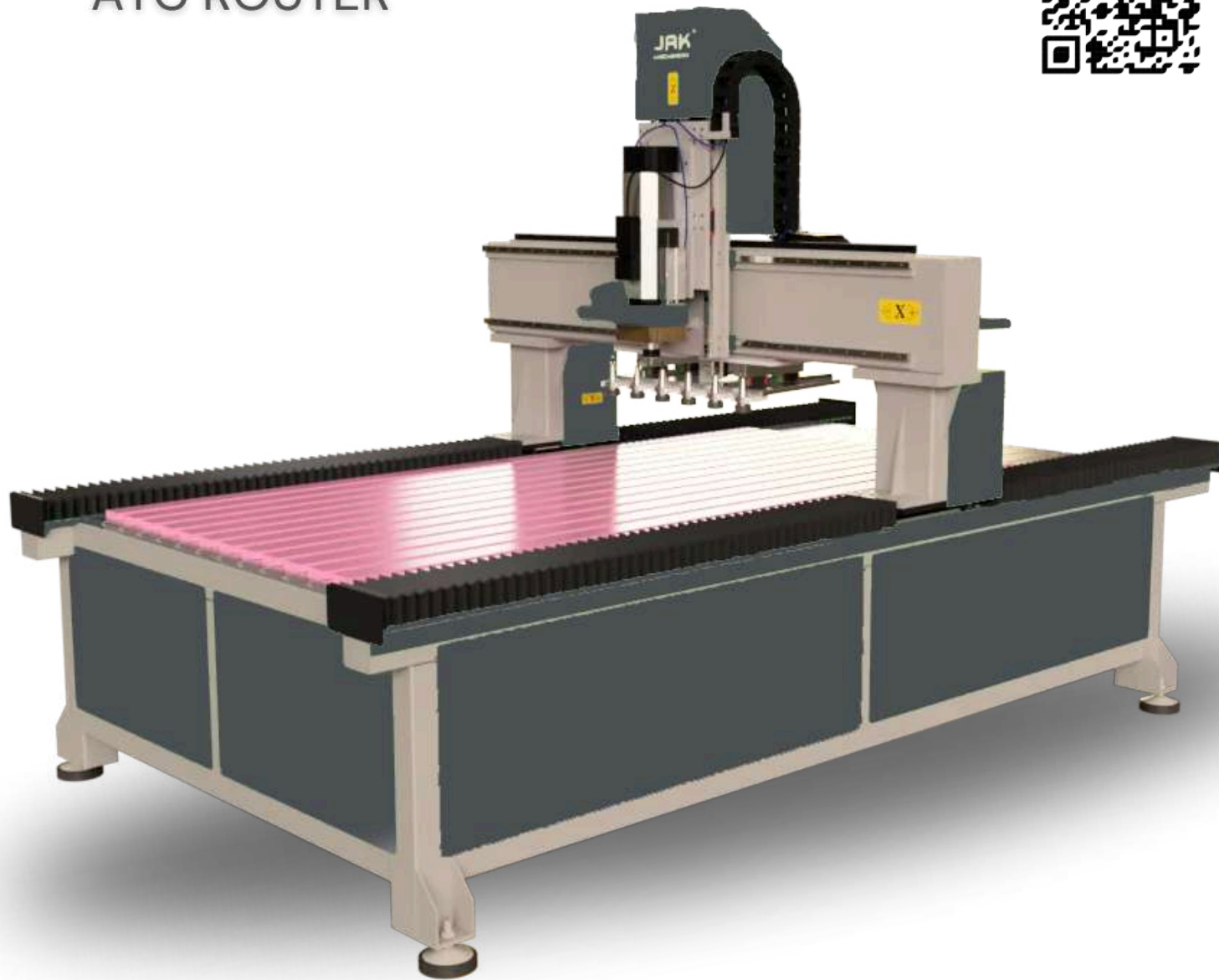
|                               |   |                   |
|-------------------------------|---|-------------------|
| <b>Router Type</b>            | Single Head Router                                    | Multi Head Router |
| <b>Bed Size</b>               | 4x8 Feet (customizable)                               |                   |
| <b>Max Material Thickness</b> | 3 inch (Customizable)                                 |                   |
| <b>Carving Spindle Type</b>   | MTC - Manual Tool Change                              |                   |
| <b>Bed Type</b>               | T-Slot Aluminum                                       | Vacuum Bed        |
| <b>Max Rapid Speed</b>        | 14000 mm/min  |                   |
| <b>Axis Motion Motor</b>      | Servo Motor   |                   |
| <b>Spindle Specification</b>  | 3.5 kW / 4.5 kW / 6 kW<br>Air Cooled, 18000 rpm, ER32 |                   |

◇ Real shot of processed product



◇ R-ATC  
ATC ROUTER

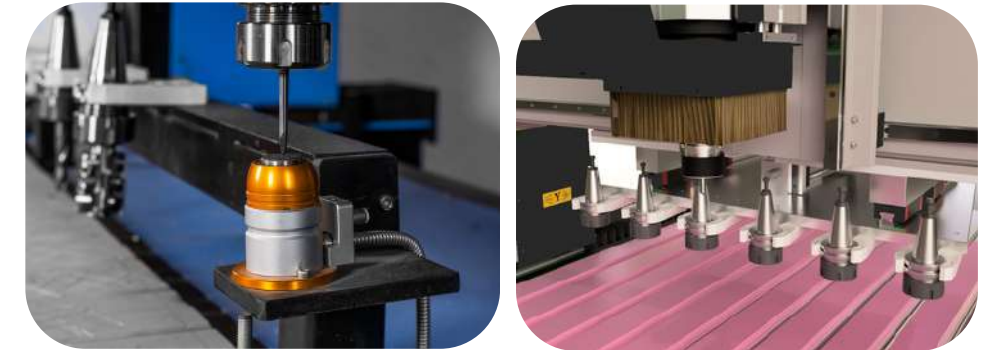
Scan the qr for operation video



◇ Product Advantage

D Profile Cutting and Pocketing, Drilling, 3D Carving, 2.5D Carving(V Carving)  
Auto Dust Collection, Auto Tool zero, Auto Stop, Auto Origin, Auto Lubrication  
User Friendly Interface, Realtime Simulation, Realtime Speed Changing, Timelaps and  
counter , Data management, Online Health Check up

◇ Equipment Detail



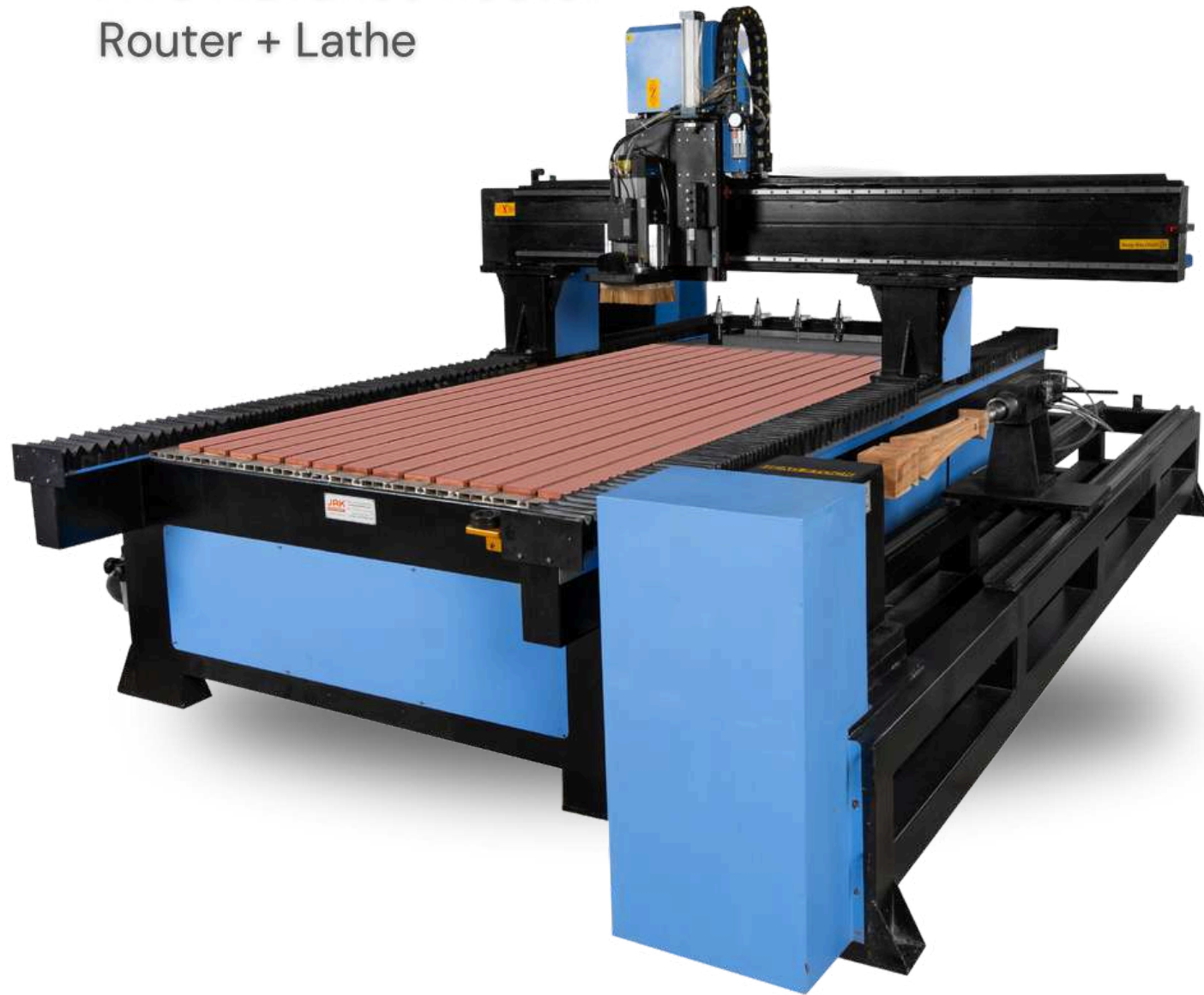
◇ Configuration instructions

|                               |  |                   |
|-------------------------------|--|-------------------|
| <b>Router Type</b>            | Single Head Router   | Multi Head Router |
| <b>Bed Size</b>               | 4x8 Feet (customizable)  |                   |
| <b>Max Material Thickness</b> | 3 inch (Customizable)  |                   |
| <b>Carving Spindle Type</b>   | ATC - Automatic Tool Change<br>6 Tool Station (ISO30 - ER32 Collets) |                   |
| <b>Bed Type</b>               | T-Slot Aluminum  | Vacuum Bed        |
| <b>Max Rapid Speed</b>        | 14000 mm/min   |                   |
| <b>Axis Motion Motor</b>      | Servo Motor  |                   |
| <b>Spindle Specification</b>  | 3.5 kW / 4.5 kW / 6 kW<br>Air Cooled, 18000 rpm, ER32                |                   |

◇ Real shot of processed product



## ◇◇ ATC Advance Router Router + Lathe



### ◇◇ Product Advantage

It is perfect to cut any material that is available in flat sheet form; it is good for plywood, PVC, wood, MDF, ACP, etc. to make furniture, doors, cabinmates, and so many other things

It is perfect to make any cylindrical or rotary part mostly from wood blocks, which are generally used in table legs, pillars, and similar applications.



Scan the qr for operation video

### ◇◇ Configuration instructions

|                                 |  |
|---------------------------------|--|
| <b>Functions</b>                | <b>Router Mode</b> : Flat Area Carving<br>(Area : 4x8 Feet, Material Thickness : 100 mm)<br><b>Lath Mode</b> : Turning + 4 Axis Carving<br>(Length : 6 Feet, Width : 6x6 inch) |
| <b>Number of Axis</b>           | 4 Axis (Simultaneous)  |
| <b>Bed Type</b>                 | Vacuum Bed / T-Slot Aluminum   |
| <b>Carving Spindle Type</b>     | ATC - Automatic Tool Change  |
| <b>ATC Carving Tool Station</b> | 6 Tool Station (ISO30 - ER32 Collets)  |
| <b>Max Rapid Speed</b>          | 14000 mm/min   |
| <b>Position Accuracy</b>        | 0.05 mm (50 Micron)  |
| <b>Power Consumption</b>        | 13KW (3 Phase)   |
| <b>Weight</b>                   | 1700 KG  |

### ◇◇ Real shot of processed product



## 5 Axis Router Machine Dual Station



Scan the qr for operation video

### Real shot of processed product



### Product Description

5 Axis CNC router is somewhat like the 3, 4 axis CNC router, but it has 2 additional axis can move along. The 2 additional axis allow for shorter project time due to their capability of cutting 5 edges of the material simultaneously.

### Machine Configuration / Parameters

| NO | Description             | Parameter                         |
|----|-------------------------|-----------------------------------|
| 1  | Collet diameter         | ER32 3.175-12.7                   |
| 2  | Spindle rotating speed  | 0-24000rpm/min                    |
| 3  | Idling speed            | 0-40m/min                         |
| 4  | Working speed           | 0-20m/min                         |
| 5  | Working accuracy        | 0.2mm                             |
| 6  | Repeat accuracy         | 0.0254mm                          |
| 7  | Diagonal error          | <0.5mm                            |
| 8  | Instruction format      | G code, u00, mmg, plt,nc.         |
| 9  | Environment temperature | 0-45 °C                           |
| 10 | Environment humidity    | 30%-75%                           |
| 11 | Working area            | 1200*1100*800mm/1200*1100*800mm*2 |
| 12 | Package dimension       | 4000*2300*2300mm/3000*2300*2300mm |
| 13 | Gross weight            | 3500KG/3000KG                     |
| 14 | Net weight              | 3600KG/3100KG                     |
| 15 | Working voltage         | 380V 3phase 50Hz                  |



# Great Machine for Your StartUp

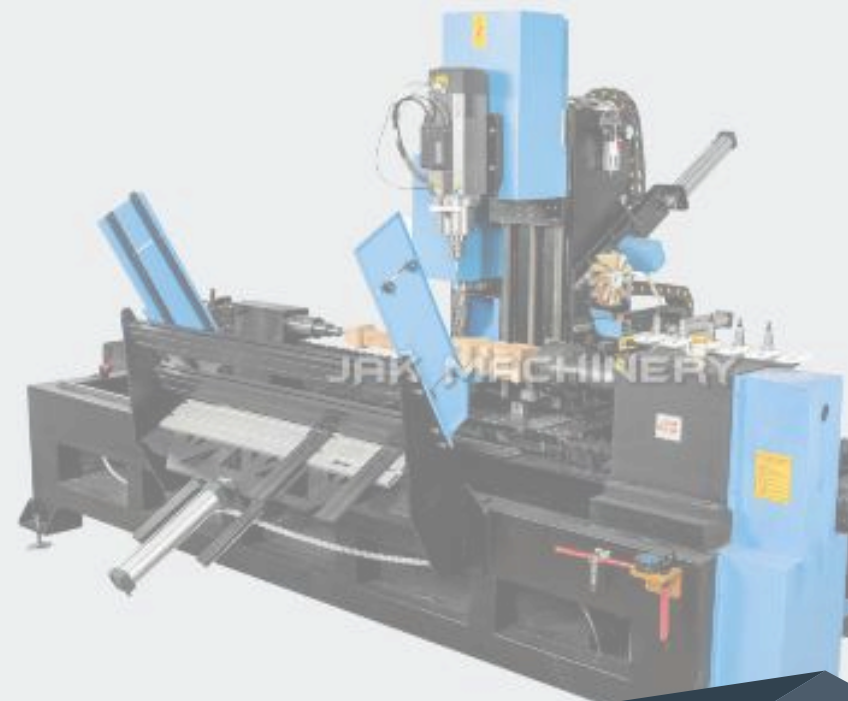
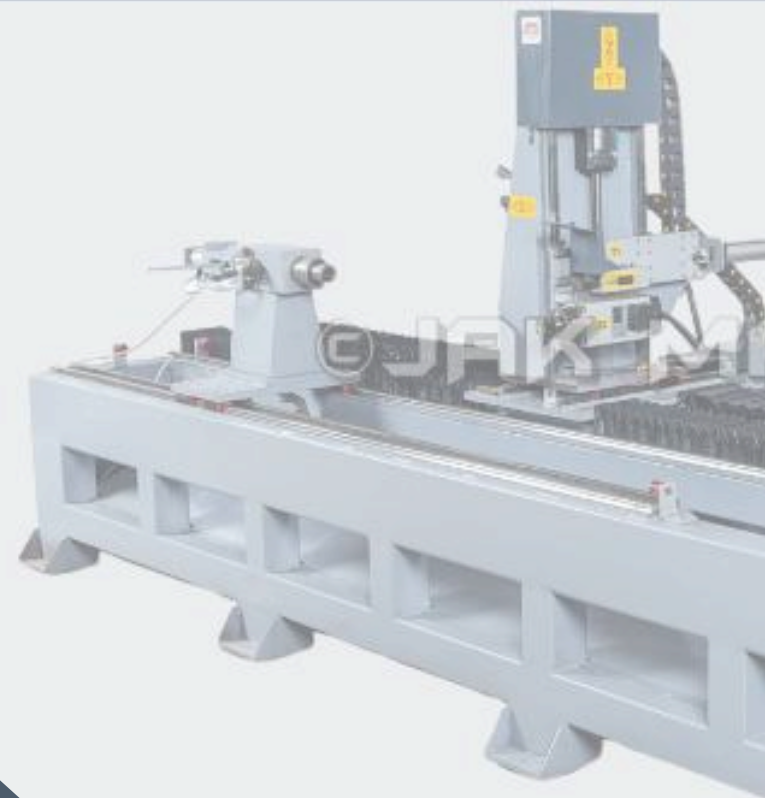
Fast and consistent productions

Increase your creativity

Protect your design data

Freedom from labour threat

## Wide Range of **CNC** **Lathe Machine**

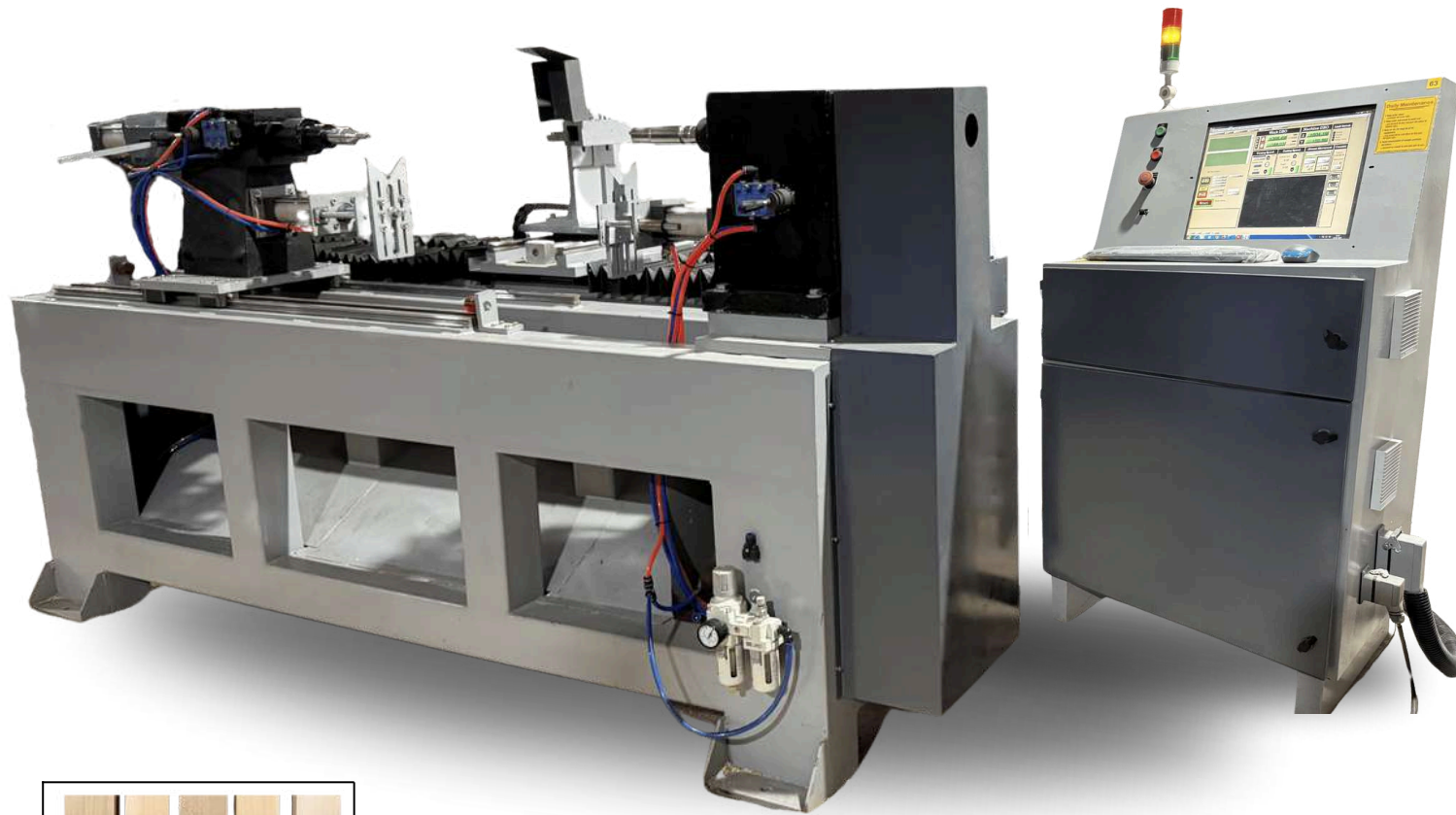




# 2X-T-AC CNC 2 AXIS LATHE



Scan the qr for operation video



# Make your Custom Machine

that suites your business most !



### Functions

One or more Operations on wood

- T - Turning
- TC - Turning Carving
- TCS - Turning Carving Shapping
- TCSF - Turning Carving Shaping
- Finishing
- TB - Turning Boring
- TBC - Turning Boring Cutting



### Tool Change

Type of Tool change for Carving

- MTC - Manual Tool Change
- ATC - Auto Tool Change



### Axis

Number of Movement in various directions

- 3X - 3 Axis
- 4X - 4 Axis
- 5X - 5 Axis



### Feeding Style

How would you like to load and unload wood

- AC - Auto Center
- AF - Auto Feeding



3 Axis Carving



4 Axis Carving



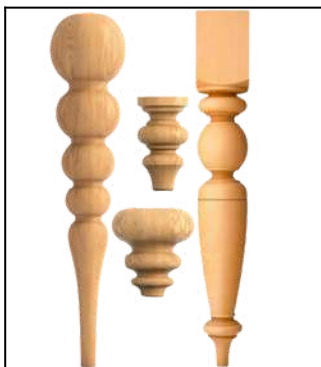
Shaping



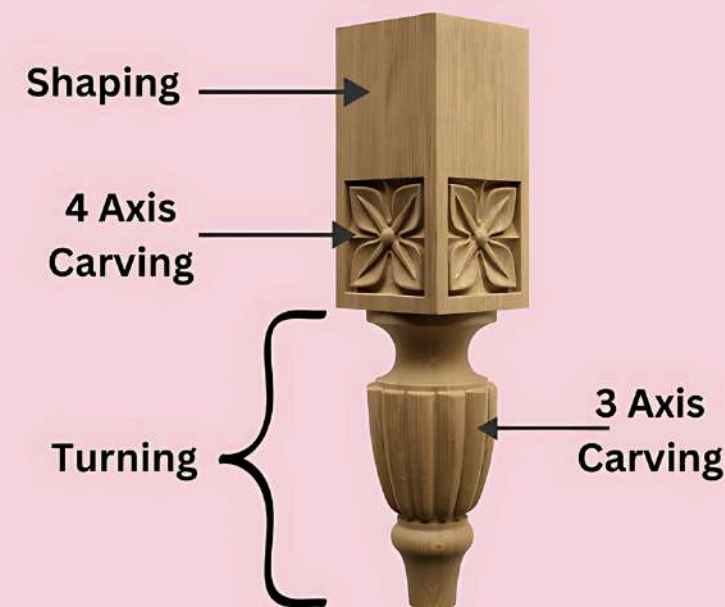
Turning

## Configuration instructions

|                          |                                 |
|--------------------------|---------------------------------|
| <b>Max Rapid Speed</b>   | 8000 mm/min                     |
| <b>Max Wood Width</b>    | 4x4 Inch / 6x6 inch / Customize |
| <b>Power Consumption</b> | 13KW ( 3 Phase )                |
| <b>Max Wood Length</b>   | 3 Feet / 4 feet / Customize     |
| <b>Position Accuracy</b> | 0.05 mm (50 Micron)             |



## What are the Different Functions ?



**Turning** : Simple Lath Function - Making Cylindrical designs

**Carving** :

- 3 Axis Carving - Straight/ Spiral slots and cylindrical carving on turning face
- 4 Axis Carving - 4 side 2D/3D carving on flat and cylindrical surface
- 5 Axis Carving - 5 side 2D/3D carving on on flat and cylindrical surface

**Shaping** : Face Planning and creative design

**Finishing** : Sandpaper on turning face

**Boring** : Hollow making for bowl, vase, glass etc.

◆ 4X-TC-MTC  
4 Axis Turning Carving CNC Wood lathe



◆ Product Advantage

Multi-functional Wood Lath Machine having capability of Turning and 4 axis Carving Operations like Wood Turning , Mortise, Slotting , Carving, Drilling can be done in single setup !



Scan the qr for operation video

◆ Configuration instructions

|                              |   |
|------------------------------|---|
| <b>Max Rapid Speed</b>       | 8000 mm/min   |
| <b>Max Wood Width</b>        | 4x4 Inch / 6x6 inch / Customize                       |
| <b>Spindle Specification</b> | 3.5 kW / 4.5 kW / 6 kW<br>Air Cooled, 18000 rpm, ER32 |
| <b>Power Consumption</b>     | 13KW ( 3 Phase )                                      |
| <b>Max Wood Length</b>       | 3 Feet / 4 feet / Customize                           |
| <b>Position Accuracy</b>     | 0.05 mm (50 Micron)                                   |

◆ Real shot of processed product



◆ Equipment Detail



◇◇ 4X-TCSF-MTC  
4 Axis CNC Wood Lathe

Scan the qr for operation video

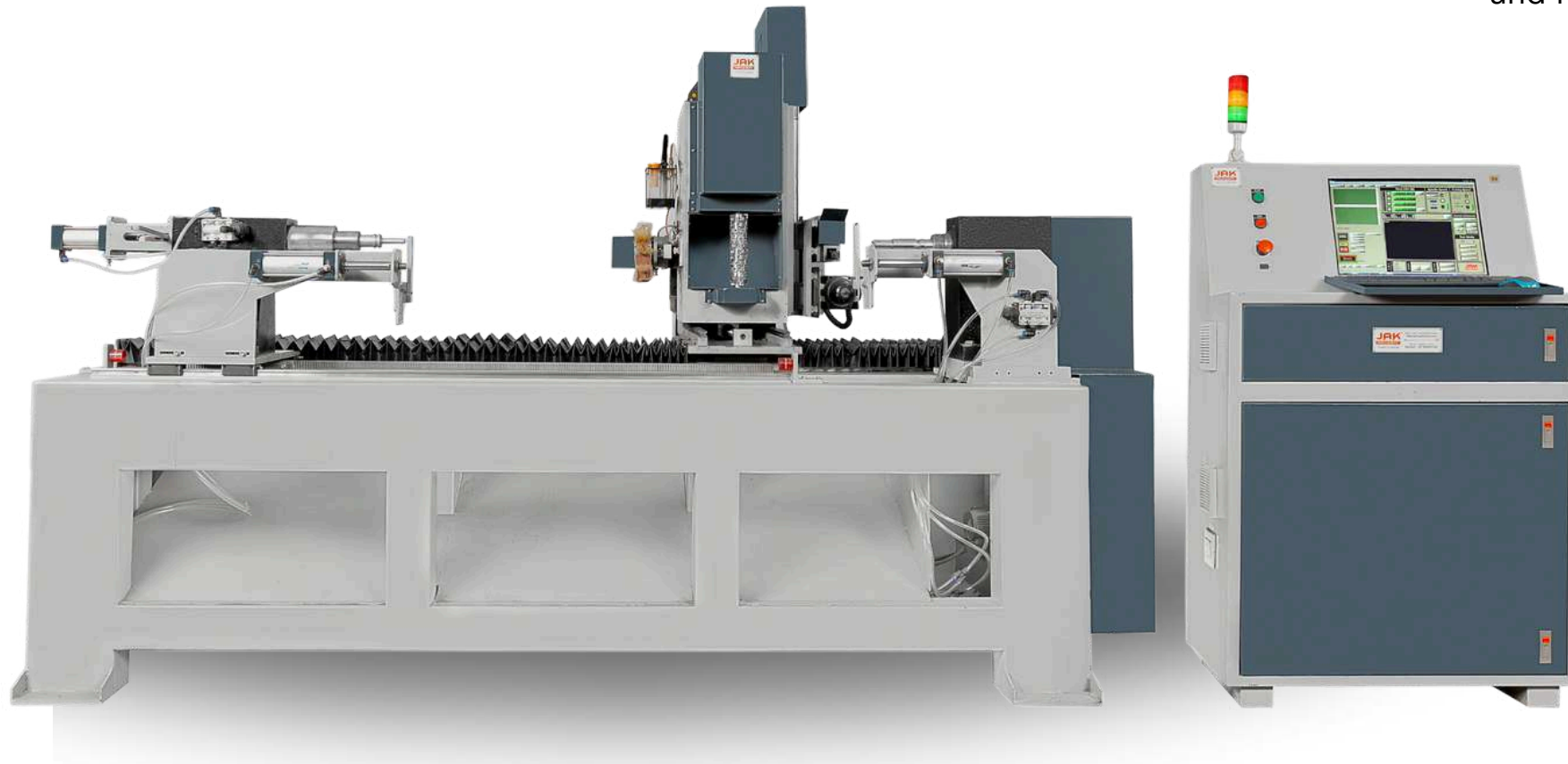


◇◇ Product Advantage

Multi-functional Wood Lath Machine having capability of Turning , Carving , Shaping and Finishing(TCSF)

Almost all the operations like Wood Planning , Turning , Mortise, Slotting , Carving and Finishing can be done in single setup !

◇◇ Configuration instructions



| Carving Spindle Type         | ATC<br>Auto Tool Change                               | MTC<br>Manual Tool Change |
|------------------------------|---|---------------------------|
| <b>Max Rapid Speed</b>       | 8000 mm/min   |                           |
| <b>Max Wood Width</b>        | 4x4 Inch / 6x6 inch / Customize                       |                           |
| <b>Spindle Specification</b> | 3.5 kW / 4.5 kW / 6 kW<br>Air Cooled, 18000 rpm, ER32 |                           |
| <b>Power Consumption</b>     | 13KW ( 3 Phase )                                      |                           |
| <b>Max Wood Length</b>       | 3 Feet / 4 feet / Customize                           |                           |
| <b>Position Accuracy</b>     | 0.05 mm (50 Micron)                                   |                           |

◇◇ Real shot of processed product

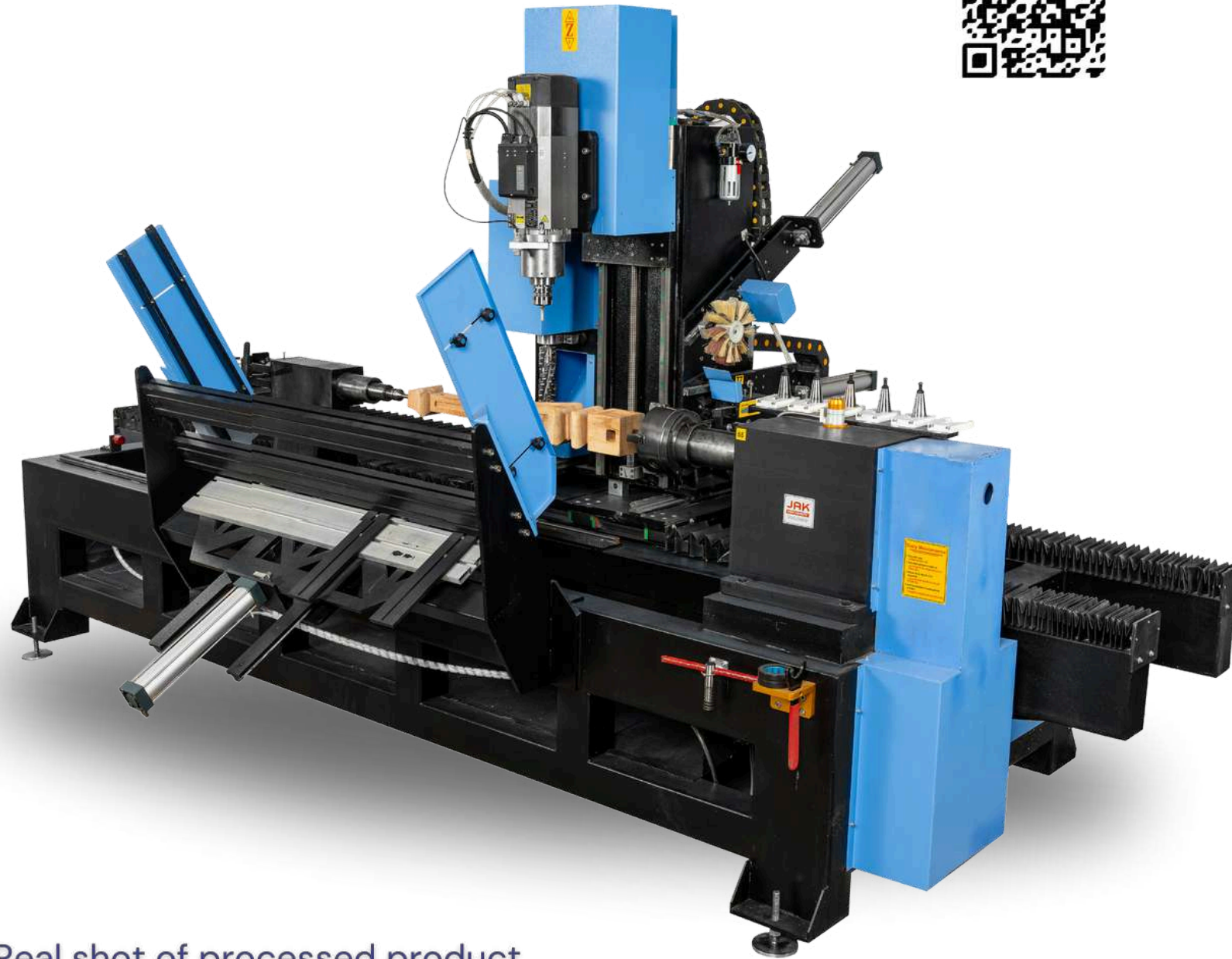


◇◇ Equipment Detail



◇◇ 5X-TCSF-AF-ATC  
CNC 5 Axis ATC Wood Lathe

Scan the qr for operation video



◇◇ Product Advantage

Multi-functional 5Axis Wood Lath Machine having capability of **Turning , Carving , Shaping and Finishing (TCSF)**.

Feeding System is Fully Automatic - Feed that 5-10 wood planks all together loading and Unloading is automatically equip with High Speed Servo Motor, Maximum Wood size can be customized.

Function is equipped with **Automatic Tool Change with 6 Tool Station**

◇◇ Configuration instructions

|                              |   |                           |
|------------------------------|---|---------------------------|
| <b>Carving Spindle Type</b>  | ATC<br>Auto Tool Change                               | MTC<br>Manual Tool Change |
| <b>Max Rapid Speed</b>       | 8000 mm/min   |                           |
| <b>Max Wood Width</b>        | 4x4 Inch / 6x6 inch / Customize                       |                           |
| <b>Spindle Specification</b> | 3.5 kW / 4.5 kW / 6 kW<br>Air Cooled, 18000 rpm, ER32 |                           |
| <b>Power Consumption</b>     | 13KW ( 3 Phase )                                      |                           |
| <b>Max Wood Length</b>       | 3 Feet / 4 feet / Customize                           |                           |
| <b>Position Accuracy</b>     | 0.05 mm (50 Micron)                                   |                           |

◇◇ Real shot of processed product



◇◇ Equipment Detail



## ◇◇ CNC MILLING MACHINE 16 End Double Station

### ◇◇ Processing Method

The workpiece of the four-sided milling, drilling, slotting, rounding, and so on.



Fully Dustproof design to reduce maintenance



Original locking mechanism to ensure that the wood is not bent

### ◇◇ SPECIFICATIONS

|                                  |  |
|----------------------------------|--|
| X Maximum Stroke                 | 2200mm   |
| Y Maximum Stroke                 | 1200mm   |
| Z Maximum Stroke                 | 200mm  |
| A Maximum Stroke                 | 180 Degree   |
| B Maximum Stroke                 | Unlimited  |
| Maximum Workpiece Turning Radius | 130mm  |
| Maximum Workpiece Length         | 1200mm   |
| Motor Characteristics            | Manual tool change double-head high speed motor 5.5KW(ER32) 4, Max speed 12000rpm, 3.7KW (ER34) 4, Max speed |
| Operation Mode                   | Double Table, Alternate working  |
| Electrical Characteristics       | Three Phase 380V 30KW  |
| Air Source                       | 6 Bars   |
| Total Mechanical Weigth          | About 5500Kg   |



Scan the qr for operation video

# ◇◇ CNC MILLING MACHINE

## 32 End Milling



### ◇◇ Processing Method

Milling on the four sides of the workpiece, drilling, grooving, threading, etc.



Process 8 pieces at same time, with same efficiency



Original locking mechanism to ensure that the wood is not bent

### ◇◇ SPECIFICATIONS

|  |  |
|--|--|
| Processing range (width X thickness X length)        | 230 x 230 x 1200mm   |
| Processing Mode                                      | Single Surface Processing  |
| One machining per table                              | 8 pieces   |
| Maximum number of cutting tools per wood             | 4 Types  |
| X Axis Maximum travel                                | 800mm  |
| Maximum Y-Axis travel                                | 1200mm   |
| Maximum Z-Axis travel                                | 400mm  |
| Maximum A-Axis travel                                | 180 Degree   |
| Maximum B-Axis travel                                | Unlimited  |
| Double Head High-Speed motor with manual tool change | 5.5KW (ER32) 8, Max Speed 12000rpm<br>3.7KW (ER24) 8, Max Speed 18000rpm |
| Power Characteristic                                 | Three-Phase 380V 30KW  |
| Air Source   | 6 Bars   |
| Total Mechanical Weigth                              | About 6500Kg   |



Scan the qr for operation video

## ◆◆ Tenon and Mortise Machine



### ◆ Product Advantage

India's most advanced machine for Joinery of solid Wood furniture parts like Dining table and chairs. Equipped with Easiest Parametric Automatic programmer, user friendly machine for **Tenon and mortise making**. It is designed to create strong and precise joints, specifically the tenon and mortise joint.

### ◆ Configuration instructions

|                                |  |
|--------------------------------|--|
| <b>Functions</b>               | Tenon and Mortise  |
| <b>Input Program type</b>      | Parametic gcode OR CNC gcode   |
| <b>Max Wood Size</b>           | Max Cross Section : 3x6 inch<br>Max Wood Lenth : 3 Feet  |
| <b>Max Tenon mortise depth</b> | 2 inch (can be customised)   |
| <b>Number of Axis</b>          | <b>Option 1 :</b> 3 CNC Linear Axis +<br>1 Manual Rotational Axis<br><b>Option 2 :</b> 3 CNC Linear Axis +<br>2 Manual Rotational Axis |
| <b>Number of Tool</b>          | <b>Option 1 :</b> Single Tool (Manual Tool Change)<br><b>Option 2 :</b> Dual Tool (Auto tool change)                                   |
| <b>Number of Station</b>       | Single / Dual Station  |

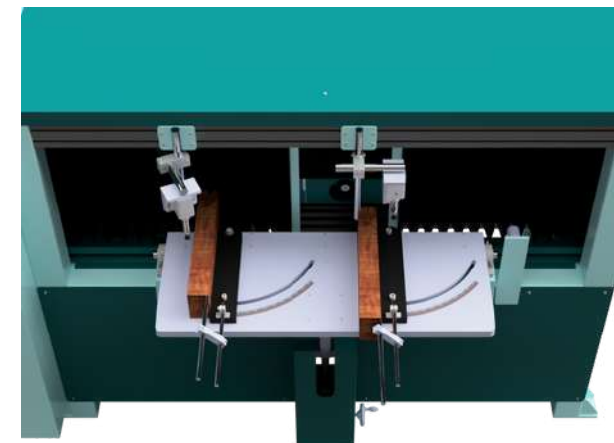
### ◆ Real shot of processed product



Scan the qr for operation video



### ◆ Equipment Detail



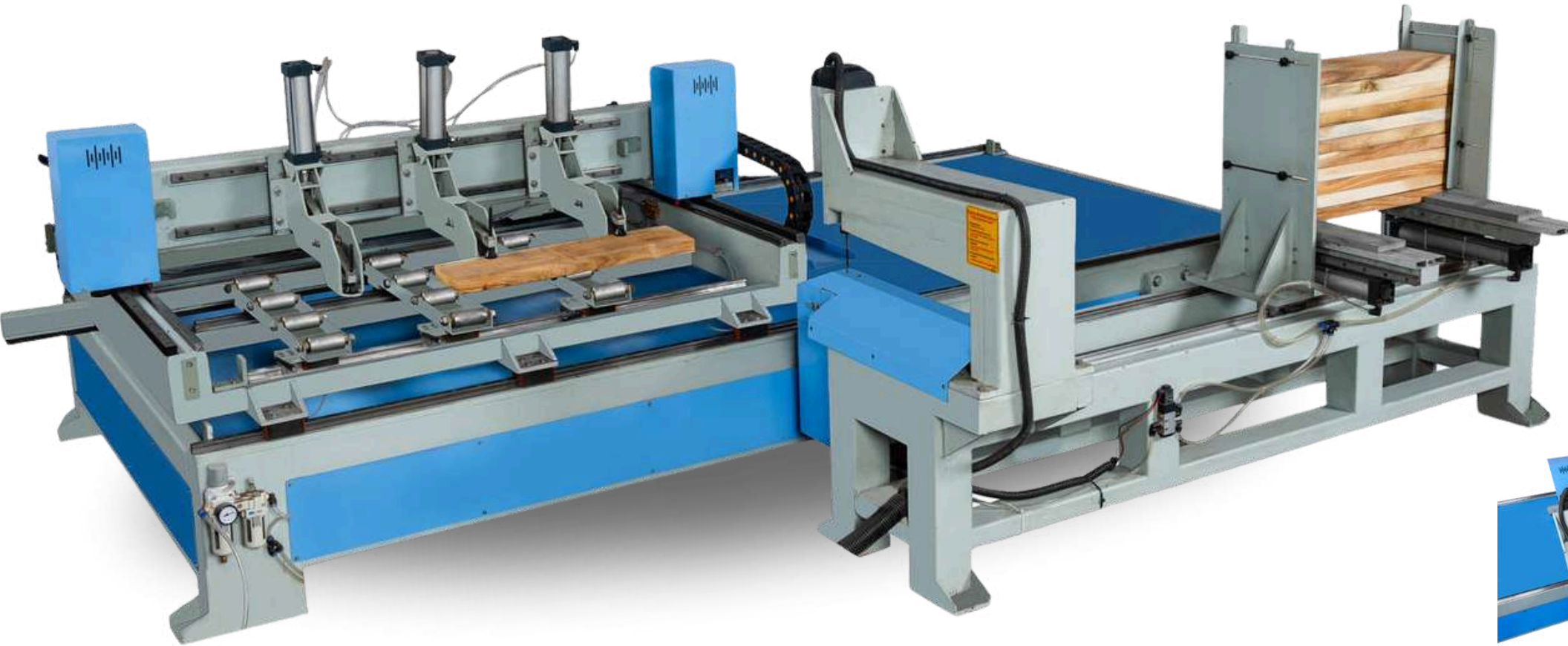
## ◆ CNC Mill Band Saw (Autofeed)

### ◆ Product Advantage

CNC Mill Band Saw Machine is designed for crafting wooden furniture, a game-changer in the woodworking industry.

Take your furniture production to the next level with this cutting-edge technology.

### ◆ Equipment Detail



### ◆ Configuration instructions

|                           |   |
|---------------------------|---|
| <b>Max Wood Size</b>      | 48x20 inch (Manual Loading)<br>8x48 inch (Auto Loading) |
| <b>Max Wood Thickness</b> | 4 inch (Can be customized)                              |
| <b>Power Requirement</b>  | 15 kw, 3 phase  |
| <b>Number of Axis</b>     | 2 Axis  |
| <b>Machine Size</b>       | 8x10x6 Feet   |
| <b>Machine weight</b>     | 1500 Kg   |

### ◆ Real shot of processed product





## Our Esteemed clients

Over 300+ businesses across India,  
ranging from small workshops to  
large-scale manufacturers in the  
woodworking industry.



STONEMEN

# CNCPARTS.IN

## CNC Tools and Accessories Store

Order Online - Fast Dispatch



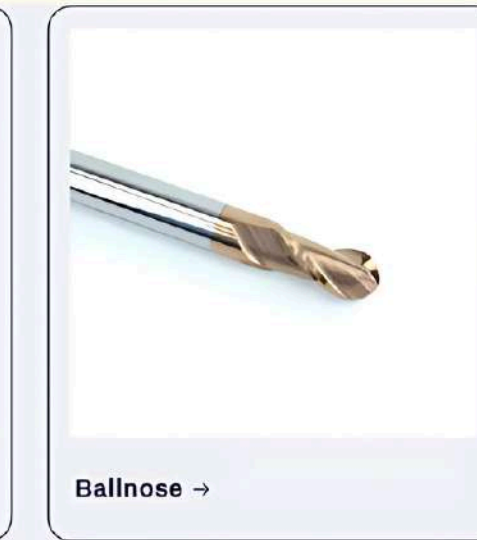
10% Off for JAK Machine Owner



Flat Endmill →



Spiral Endmill →



Ballnose →



taper ball nose →



Form Tool →



Dust Collector →

# CNC Design Marketplace

Instant design Download for CNC Router

An Initiative by JAK Machinery

