



*Technology ingrained in tradition...*



RADHE TECHNOLOGIES  
[www.radhetechologies.com](http://www.radhetechologies.com)  
+91 93 27 67 27 39



## ABOUT US

The professional cnc router and laser cutting machine manufacturer in India. Our machines including ATC CNC router, Wood CNC Router, Stone CNC Router, Metal CNC Router, EPS CNC Router, 4 Axis CNC Router, 5 Axis CNC Router, Plasma Cutting Machine. We offer an engineered range of CNC Cutting Machines that is useful in cutting various kinds of material objects in several engineering industries. We manufacture these CNC Cutting Machines using high quality of machineries and are widely demanded due to dimensional accuracy, durability and toughness. These CNC Cutting Machines are provided as per the International Standards.

## ALL TYPES OF CUSTOMISED CNC MACHINE



**RT**  
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## RT CNC ROUTER MACHINE

Machine also available in Size | 1300x2500  
1500x3000

**Mfg. of all type of  
CNC Router Machine  
All Types Customised  
CNC Machine**



WORK MATERIAL : WOOD, MDF, ACRYLIC, ACP, PVC, HARD WOOD, CORIAN, THERMOCL

# TECHNICAL SPECIFICATION

## WORKING PARAMETERS

Cutting Area	1300mm x 2500mm
X-Axis Running Area	1300mm
Y-Axis Running Area	2500mm
Z-Axis Running Area	200mm

## MOTOR

SERVO MOTOR	Company : Sigma / Aero Motion
EASY MOTOR	Company : Leadshine / Yakotec

## ELECTRICAL REQUIREMENT

Electric Voltage	380V / 220V
Phase	Triphase / Singlephase
Frequency/ Current	50Hz/60Amp

## AXIS MOVEMENT SYSTEM

X And Y AXIS	Rack & Pinion (24mm, Company: YYC / Mimy Taiwan)
Z axis	Ball Screw (25mm, Company: Hiwin Taiwan)
AXIS SLIDER	Linear Motion Guide (25mm, Hiwin Taiwan)

## MACHINE PARAMETER

Controller	NK 105 / A11
Spindle 6kw / 3.5kw	6kw - 18000RPM - Air Cooling   3.5kw - 18000RPM - Air Cooling
Machine Bed Structure	Heavy Structure Made Of Mild Steel 150x150mm 6mm pipe use

## DIMENSIONS

Length	Width	Height
3000mm	2000mm	1800mm





## ◀ NK 105 CONTROLLER

NK 105 Is a hand held, offline, and easy to operate controller. It is no need to connect with a PC during the machine working. It is easily operate and Learned, especially for the freshman.

## ALUMINIUM ▶ T-SLOT TABLE



Work table with "T"-slot for mechanical fastening

The working table of the machine is made of panels of special reinforced aluminum separated by grooves to accommodate the clamps. A frequent step in the placement of the grooves makes it possible to fasten the workpiece of almost any size and does not require additional manipulation. The surface of the table, in the processing area, is covered with a special protective layer of wear-resistant plastic. In the event of errors and passing the tool below the workpiece zero point, the protective layer keeps the tool and the table from damage.



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## ◀ BASE FRAME

Heavy structure a 150x150mm 6mm pipe Body  
The base frame is fabricated from heavy-duty tubular steel that is welded, precision machined and stress relieved so that the foundation remains true and steady over the operational life of the machine.



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# HIWIN LINEAR GUIDE ►

XYZ Axis Motion Square Rail,  
The Hiwin Square rail higher stability  
and rigidity, which makes the gantry moving  
and spindle moving at high speed with high  
precision. and hiwin square rail is  
more durable.



## ◀ 6 KW SPINDLE

6KW HQD Brand PowerFull Air Cooling Spindle.  
this precision spindle requires no maintenance.  
Fully programmable Speeds From  
6,000 to 18,000RPM.



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## PLANETARY ► GEARBOX

Tornex Brand High Precision planetary GearBox  
These gear reducers are with high precision,  
and it can increase torque. therefore make  
the motor more powerful.



## ◀ SERVO MOTOR

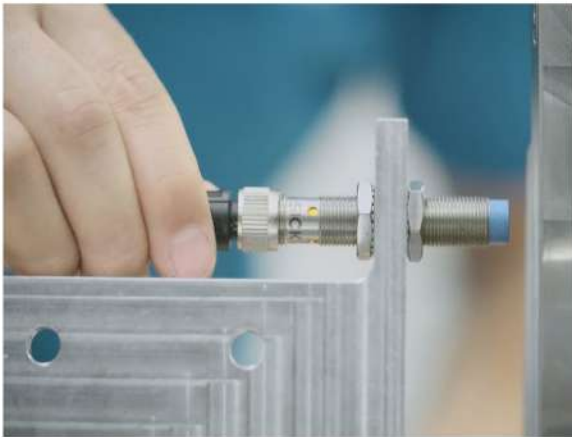
Radhe Technologies Brand AC Servo Motors.  
these motors require no regular maintenance  
therefore, reducing any maintenance downtime.



## XY HELICAL RACK & PINION



Imperium CNC Router uses precision helical gear racks on the X and Y axis. The mounting of the rack is inverted to help keep dust and debris from building up on the drive system, this assures smooth motion and long term reliability. This eliminates gearbox stretch inaccuracies assuring high-speed machining while the system positions the spindle accurately.



## PROXIMITY SENSOR LIMIT SWITCH

The limit sensor is the second limit protection. Teknik EGT 12X04XAN024 PROXI is famous brand and the sensor is with high quality. The function of this device is to prevent the machine from overtraveling, and avoid unnecessary losses.

The sensor is installed on all XYZ axis.

## OIL LUBRICATION SYSTEM

The machine comes the whole lubrication system to make sure all the transmission system will be well lubricated, which will make the machine service life longer.



## AUTO LUBRICATION PUMP



# OPTIONAL PARTS



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功率 (kw)	2.2KW
电压 (v)	380V或220V
风量 (m³/h)	5200
吸尘口尺寸 (mm)	100×3
集尘器尺寸 (mm)	480×4
包装尺寸 (mm)	1420×495×645
总尺寸 (mm)	1420×495×2100
重量 (kg)	50±

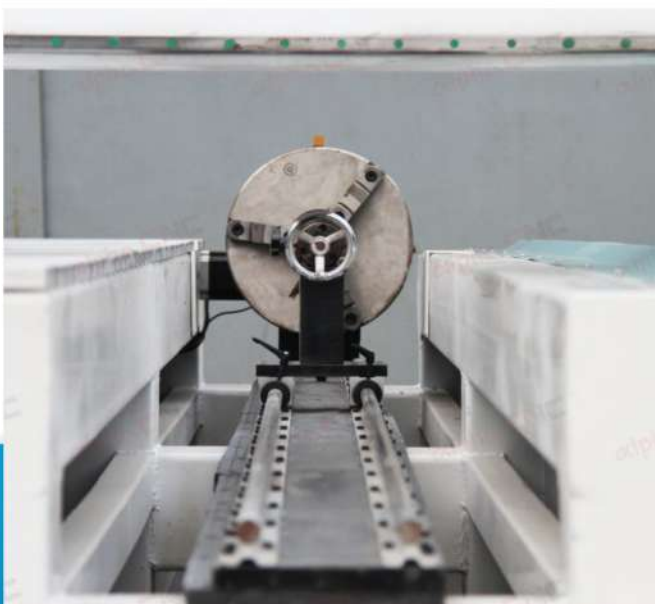


## ◀ DUST COLLECTOR

Big dust collector with 2 bags, which is powerful enough for collect the. It will make your workshop without dust.

## OIL MIST COOLANT SYSTEM ▶

The Oil mist Coolant System is ideal for coolant tools for cutting metal. The unit's microdispenser delivers a very small amount of high-performance vegetable-based lubricant to the cutting tool by atomizing the lubricant in a high-velocity air stream. The result is higher material removal rates, improved finish, tighter tolerances and increased productivity.



## ◀ ROTARY AXIS

Imperium 4-Axis rotary table assembly comes complete with a 3-jaw chuck, tail stock, and linear guide track for easy tail stock movement and center alignment. The addition of Alpha's 4-axis rotary table assembly adds greater functionality to the machine's capabilities allowing for 4-axis cutting in both 2D and 3D carving and indexing functions. (Alpha has 0-100mm, 0-150mm, 0-200mm, 0-250mm, 0-300mm diameter rotary axis for your choice)



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## 1. X Y Z Axis 2. HIWIN SQUARE RAIL



The CNC Router has a 1 inch thick phenolic vacuum table surface mounted onto the steel base frame, keeping a rigid and consistent platform for your sheets and parts to be supported. The vacuum table surface is multi-zoned which allows the operator to easily switch from full sheet processing to smaller part processing, (which requires a smaller segmented area). Zones can be turned off easily via control valves on the front of the machine. Gasketing can also be routed to accommodate various material sizes and styles.



## VACUUM FUNCTION SWITCH

The APS Series Machine also includes a heavy-duty aluminum T-Slot profile in multiple locations across the table surface. This T-Slot accepts Alpha's square M6 T-nuts. 5.5kw/7.5kw dry Rotary Vane Vacuum Pump Comes standard with motor starter, vacuum gauge, primary and secondary filter, check valve and all necessary plumbing to connect to router.



## 5.5KW/7.5KW VACUUM PUMP(FOR OPTION)

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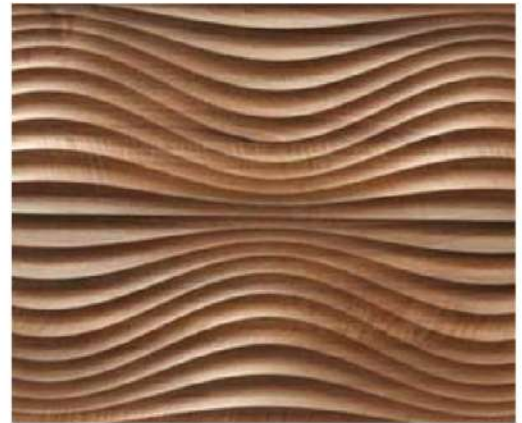
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# IMPERIUM APPLICATIONS

## SPEAKER MAKING



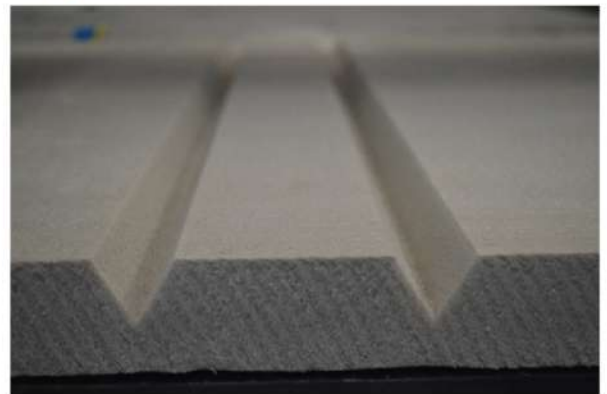
## WALL DECORATION



## CRAFTS



## FOAM CUTTING



## ACRYLIC PROCESSING



## MUSICAL INSTRUMENT MAKING







# IMPERIUM APPLICATIONS

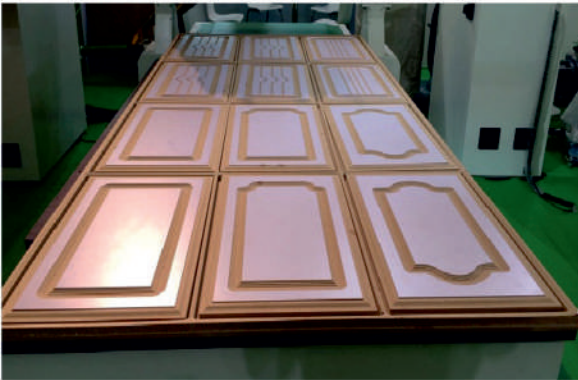
## SIGN MAKING



## DOOR MAKING



## CABINET MAKING



## FURNITURE DECORATION



## DECORATIVE PARTITION MAKING



## FURNITURE MAKING

