

APH MACHINE  
India Pvt Ltd

**APH MACHINE  
INDIA PVT. LTD.**

**Delivering Excellence**

# About APH Machine India Pvt. Ltd.

APH Machine India Pvt. Ltd., a proud division of **Patel Engineering Works**, is a premier manufacturer of CNC Work, VMC Work, Horizontal Boring Work, aluminium door & window-making machine & equipment, and aluminium formwork processing solutions. **Since 1968**, with over **56 years** of innovation and expertise, we have been at the forefront of shaping the industry, setting new standards in precision and performance.

With APH Machine has 3 factories, which is located in Vadodara city in Gujarat, India. APH Machine blends advanced technology, expert craftsmanship, and unwavering commitment to quality.

**Our mission is to empower industries with high-performance machinery, ensuring efficiency, accuracy, and durability.**

## Our Product Line

- **CNC Double & Single Head Cutting Saws**
- **End Milling & Copy Router Machines**
- **Punching & Lock Hole Milling Machines**
- **Aluminium Bending Machines**
- **Aluminium Formwork Cutting & Hydraulic Punching Machines**
- **Multi-Head & Single-Head Milling Machines**
- **Custom Special-Purpose Machines**

At APH Machine, we believe in building partnerships, exceeding expectations, and delivering unmatched service. Our promise is simple yet powerful.

**"Delivering Excellence – Sincere Service, Unwavering Commitment"**

**Choose APH... Choose Innovation... Choose Excellence...**

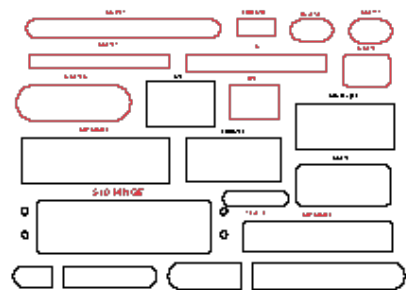


# Mini Copy Router

The Machine Is Used For Copy-Routing For Different Shapes Of Holes & Grooves,  
The Motor Is Accelerated To Achieve The High Milling Speed (22000 Rpm/Min.)  
It Can Process Both Aluminium, Pvc & Upcv Profile.

With The Pneumatic Driving System, It Can Process The Water Slots, Hardware Holes,  
Keyway Holes It Has The Features Of Easy Operation And High Reliability.

- Router Motor Standard Grade (Single Phase Power) 22000r/min
- Cutter Bit (HSS-E 6\*8\*14\*60mm Regular)
- Automatic Motor On/Off Sensor (New in Industries)
- Manual Clamp - De clamp Operation
- Auto & Manual Mode (New in Industries)
- 12mm HE30 Grade Aluminium Base Plate (590\*430\*10mm)
- Die Plate having 17 different slots
- Heavy duty hard chrome Shaft & Lanier Bearing
- Aluminium casting structure for router motor base
- Two Hand operation manual locking system
- Height & Depth adjustment locking system
- MS Powder Coated Body
- Centre & Length Fixture



## Technical Parameters

Power Supply & Input Power	230-240~ 50-60Hz – 1650W
Cutter rotational speed	22000r/min
Overall Size	H650mm * W650mm * L750mm
Processing Range	240*160mm

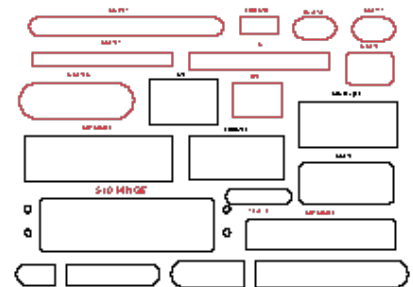


# Pneumatic Copy Router Machine

The machine is used for copy-routing for different shapes of holes & grooves, the motor is accelerated to achieve the high milling speed (22000 rpm/min.) It can process both Aluminium, PVC & UPVC profile.

With the pneumatic driving system, it can process the water slots, hardware holes, Keyway holes it has the features of easy operation and high reliability.

- Makita Make Router Motor (Single Phase Power) 22000r/min
- Cutter Bit (HSS-E 6\*8\*14\*60mm) & (HSS-E 6\*8\*14\*80mm)
- Automatic Motor On/Off Sensor (New in Industries)
- Auto & Manual Mode (New in Industries)
- 12mm HE30 Grade Aluminium Base Plate (590\*430\*10mm)
- Die Plate having 17 different slots
- Heavy Duty hard chrome shaft & Lanier bearing
- Pneumatic Locking System (Air Pressure Requite up to 5 to 7 Kgf/cm2)
- Italian lubricant technology Pneumatic Spray Valve for bur free cutting
- Aluminium casting structure for router motor base
- Two Hand operation manual locking system
- Height & Depth adjustment locking system
- MS Powder Coated Body
- Centre & Length Fixture



## Technical Parameters

Working Air Pressure	5 to 7 Kgf/cm2
Power Supply & Input Power	230-240~ 50-60Hz – 1650W
Cutter rotational speed	22000r/min
Overall Size	H1400mm * W750mm * L750mm
Processing Range	240*160mm





# Heavy Duty Copy Router Machine (CI Casting Body Structure)

The machine is used for copy-routing for different shapes of holes & grooves, the motor is accelerated to achieve the high milling speed (8400 rpm/min.)

It can process industrial profile, Aluminium & UPVC profile.

With the pneumatic driving system, it can process the water slots, hardware holes, Keyway holes it has the features of easy operation and high reliability.

- Heavy Duty Motor (3 Phase 3 HP Power) 8400r/min
- Cutter Bit (HSS-E 8\*8\*14\*60mm Heavy) (HSS-E 8\*8\*14\*80mm)
- Automatic Motor On/Off Sensor
- Auto & Manual Mode
- Heavy Duty CI Casting Base Plate (T100mm \* L650mm \* W435mm)
- Die Plate having 17 different slots
- Heavy Duty hard chrome shaft & Lanier bearing
- Electro Pneumatic Panel
- Pneumatic Locking System (Air Pressure Requite up to 5 to 7 Kg/cm<sup>2</sup>)
- Italian lubricant technology Pneumatic Spray Valve for bur free cutting
- Heavy Duty Cast Iron Base Structure
- Two Hand operation manual locking system
- Height & Depth adjustment locking system
- MS Powder Coated Body
- Centre & Length Fixture

## Technical Parameters

Working Air Pressure	5 to 7 Kg/cm <sup>2</sup>
Power Supply & Input Power	0.75Kw/HP, 415V 50Hz
Cutter rotational speed	8400r/min
Overall Size	H1650mm * W900mm * L750mm
Processing Range	250*300mm



# Aluminium Section Punching Machine

## Single Die (1D), Double Die (2D), Four Die (4D)

This machine used for various punching process in the manufacturing of aluminium & UPVC doors & windows. Punch different kind of profile by changing the punching die.

- 3 Different Model - Single Die(1D), Double Die(2D), Four Die(4D)
- Pneumatic Punching Operation (Air Pressure Requite up to 5 to 7 Kg/cm<sup>2</sup>)
- Heavy Duty Special Design Pneumatic Cylinder (200\*25mm) SPAC Make
- Heavy Duty MS Bottom Base Plate & Top Plate (303\*250\*20mm)
- Heavy MS Powder Coated Body
- With Punch Footpad Pneumatic foot valve control
- Very Easy to change the die with Male-Female die assembly
- Two Pneumatic Cylinder & Two Footpad Pneumatic foot valve control in 4D model for fast production
- In 2D & 4D Model you can use all dies together for fast production

### Technical Parameters

Working Air Pressure	5 to 7 Kg/cm <sup>2</sup>
Punching Travel	25mm & 30mm
Pneumatic Cylinder Make	SPAC
Pneumatic Cylinder Size	200Kg/cm <sup>2</sup> * 25mm Working
Overall Size – 1D Model	H1500mm * W300mm * L350mm
Overall Size – 2D Model	H1500mm * W400mm * L350mm
Overall Size – 4D Model	H1500mm * W650mm * L350mm



# Aluminium End Milling Machine

Used for milling the mullion profile to connect the mullion profile & frame profile. Can mill many profile in one time with high productivity. Milling cutter can be adjusted up/down & left/right to meet different types of profile. Large diameter of end milling cutter, high speed milling gives good quality milling profile surface.

- Model : Automatic & Manual
- END Mill Cutter : As per requirement
- Air Pressure : 5-7 Kgf/cm<sup>2</sup>
- Motor Power : 2HP 3 Phase 2800 RPM
- Horizontal & Vertical Pneumatic clamp arrangement
- Pneumatic Cylinder for Automatic Cutting Operation
- 12mm HE30 Grade Aluminium Base Plate & Aluminium Casting Structure
- Italian lubricant technology Pneumatic Spray Valve for bur free cutting
- High grade MS Powder Coated structure.
- Hard Chrome Rod guide movement.
- Electro Pneumatic Panel

## Technical Parameters

Power Supply	2.20-KW – 3.0HP, V415/220
Motor RPM	2800r/min
Working Air Pressure	5 to 7 Kgf/cm <sup>2</sup>
Pneumatic Cylinder Make	SPAC
Diameter of Main Shaft	32mm
Diameter of Milling Cutter	Max - 180mm
Workable Travelling	310mm
Overall Size – Automatic	H1500mm * W1150mm * L600mm
Overall Size – Manual	H1500mm * W700mm * L600mm



# Single Head Automatic Cutting Machine

- Model: MMSH 350
- Automatic Cutting height adjustment
- Pneumatic & Hydro Pneumatic Cylinder for cutting operation
- Electro Pneumatic Control Panel with Relay Logic Control Card
- Pneumatic Clamp De-Clamp Operation
- Italian lubricant technology Pneumatic Spray Valve for bur free cutting
- Compete high grade CI Casting structure with the head and rotatory base
- Back face support with pneumatic clamping cylinder gives optimum grip and best burr free cutting on profiles.
- Carbide Italian saw blade supplied with a machine to ensure quality cutting.
- Wide range of optional accessories available with the machine like roller track with tape fitted, DRO Monitor with 0000.000 digit display & Magnate scale length gauge.

## Technical Parameters

Power Supply	2.20-KW – 3.0HP, V415/220
Motor RPM	2800r/min
Working Air Pressure	5 to 7 Kgf/cm2
Pneumatic Cylinder Make	SPAC
Saw Blade Size	350mm
Cutting Angle	45` 90` 45` (ANY)
Cutting Width	100mm
Cutting Height	75mm to 100mm
Overall Size – Automatic	H1700mm * W950mm * L700mm
Saw Blade Make	Freud (Made in Italy)
Control Panel	Relay Logic Card
Cutting Coolant	Italian lubricant technology Pneumatic Spray Valve for bur free cutting
Main Body	Heavy Duty CI Body





# Double Head Automatic Cutting Machine

Use for cutting the profile of aluminum door and windows, curtain wall and corner connector.

The feeding system adopts the imported linear guide pair with high accuracy and stability.

Two heads with cutting angles 90, 45, degrees are available.

Automatic feed and cycle run. Digital display with high positioning accuracy.

Touch screen and CNC control system, with high accuracy.

Cushioned pneumatic clamping by push button, saw blade rotates smoothly due to high accurate main spindle.

## TECHNICAL PARAMETER

Input voltage	3 P, 380V,50HZ
Input power	6 KW/7.1KW
Air pressure	0.5~0.8MPa/120psi
Air consumption	200L/min
Motor rotation speed	2800r/min
Cutting length	400~4200mm
Cutting length tolerance	+0.005
Cutting angles	90,45
Cutting width height	160*190MM(90) 160*130MM(45)
Saw blade standard	500/600 * 4.4 * 30xZ * 120
Overall dimensions	5700 * 1650 * 1520mm



# CNC Copy Router Machine

1. Adopted CNC control system with high precision and reliability
2. By using programming software to transform and process G code automatically, easy operation, high efficiency and low labor intensity
3. Working bench can turn 180°,-90°,0°, +90°, it can realize material three sides surface processing by clamping at one time,
4. Machine can process deep and special-shaped holes through workbench turning with high efficiency and operation

## TECHNICAL PARAMETER

Model	CNC 1200	CNC 1500
Air Pressure	0.5-0.6 Mpa	0.5-0.6MPa
X/Y/Z Axis Stroke	1200*300*300mm	1500mm*300mm*300mm
Input Voltage	380v 50Hz Or According To Customer Need	380V 50Hz or As Customer need
Input Power	4.5 Kw	4.5kw
Overall Size	2400*1500*1950mm	2860*1600*2100



# 6 Head Hydraulic Punching Machine

This machine is used for aluminum profile punching.

Punching different kinds of profiles by changing the punching position.

Choose die by turning the working table fitted with six different dies.

## TECHNICAL PARAMETER

Motor power	2.2kw
Rated oil pump pressure	16MPa
Capability of oil box	20L
Press nominal pressure	50KN
Travel times	30/min
Closing height	185mm
Punching travel	30mm
Die size	250x200x215(mm)
Contour dimension	1050*1050*1650*



## VARIABLE ANGLE SINGLE HEAD CUTTING

High speed precision miter Saw machine (Digital display) is used for cutting aluminum profiles Digital display to show any angle cuttin (30-150 angle) from bottom side come out

## TECHNICAL PARAMETER

Saw Blade	500mm/550mm/600mm/650mm
Power Supply	380V/50HZ
Input power	3 KW
Saw Blade	500/600/650/*4.4*30*Z120
Weight	650kg
Dimension	1500*1160*1850mm



# Fully Automatic Aluminium UP-Stroke Cutting Machine (Boll Screw with Servo Stepper Motor Operated)

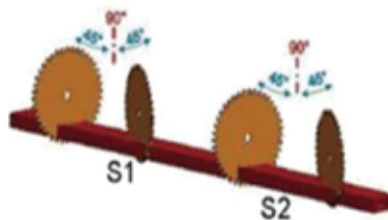
This machine used for cutting the aluminium door & window profile, curtain wall & corner connector, Aluminium heat sink, Aluminium formwork profile & Industrial profile.

- Model: MMUPST 450,500,550 & 600
- Automatic Cutting height adjustment
- Servo Stepper Motor with Ball Screw Cutting Operation **(First time in the industry)**
- CNC Control Panel with 5" & 7" HMI Display, Siemens Controller
- Pneumatic Clamp De-Clamp Operation
- Italian lubricant technology Pneumatic Spray Valve for bur free cutting
- Compete high grade CI Casting structure with the head and rotatory base
- Machine equipped of Siemens electrical kit for best quality performance
- Back face support with pneumatic clamping cylinder gives optimum grip and best burr free cutting on profiles.
- Carbide Italian saw blade supplied with a machine to ensure quality cutting.
- Wide range of optional accessories available with the machine like roller track with tape fitted, DRO Monitor with 0000.000 digit display & Magnate scale length gauge & Servo stepper motor with rack & pinion arrangement for automatic length measurement

First time  
in the  
industry

## Technical Parameters

Power Supply	2.20-KW – 3.0HP, V415/220
Motor RPM	2800r/min
Working Air Pressure	5 to 7 Kg/cm <sup>2</sup>
Pneumatic Cylinder Make	SPAC
Saw Blade Size	450mm / 500mm / 550mm / 600mm
Cutting Angle	45° 90° 45° (ANY) – Automatic with Ser
Cutting Width	225mm to 450mm
Cutting Height	125mm to 250mm
Overall Size – Automatic	H1700mm * W1100mm * L700mm
Saw Blade Make	Freud (Made in Italy)
Control Panel	CNC PLC Control & HMI Display
Cutting Coolant	Italian lubricant technology Pneumatic Spray Valve for bur free cutting
Main Body	Heavy Duty CI Body





# Cnc Bending Machine(3 Axis/4 Axis)

The device is suitable for various metal profile or profile (aluminum alloy doors and windows type material, insulation Duanqiao profiles). This machine adopts imported CNC automatic computer control, make the operation more simple and convenient. A special bend arc software. The ability to detect material of rebound data, eliminate rebound. Able to bend C shape, U shape, ellipse, circle, such as spring shape. Because of the use of numerical control hydraulic system, positioning accuracy  $\leq 0.01\text{mm}$ . The performance of their products reach Europe advanced CNC bending arc machine standard. Famous Servo motor

## Technical Parameters

Model number	WD4-360
Power supply	380V 50Hz (3-phase, 4 wires)
Motor power	6.8 kw
Axis distance	340-410mm
Axis diameter	65mm
X Axis max torsion	2600N
Y Axis push strength	20 TON(MAX 23 TON)
Y axis repeating accuracy	$<0.02\text{mm}$
X axis positioning accuracy	$<0.04\text{mm}$
Y axis feeding size	0-220mm
Min working range	70mm one time finish
Clamp profile range	Height: 260 width: 100mm
Min bending arc diameter	260
Roller rotating speed	1-15r/min
Roller mould max diameter	200mm
Working pressure	0.2-0.3Mpa
Hydraulic push pressure	20 T( 200Mpa)
Overall size	1300*1300*1450mm
weight	1000 KGS



# Hydraulic Punching Machine (6 Dies)

This machine is used for aluminum profile punching.  
Punching different kinds of profiles by changing the punching position.  
Choose die by turning the working table fitted with six different dies.

## Technical Parameters

Motor power	2.2kw
Rated oil pump pressure	16MPa
Capability of oil box	20L
Press nominal pressure	50KN
Travel times	30/min
Closing height	185mm
Punching travel	30mm
Die size	250x200x215(mm)
Contour dimension	1050*1050*1650*



# List of Customers

- Banco Aluminium Limited – Vadodara Gujarat
- Lakshmi Technologies - Bengaluru
- Shreeji International – Africa
- A. S. Industries – Bengaluru
- Bright Electricals – Daman
- Vikayath Cnc – Bengaluru
- V Furnita Pvt. Ltd. – Bengaluru
- Inovizhen Interior Private Limited – Gujarat
- Mitutech Solutions – Bengaluru
- Alich Industries Pvt Ltd – Surat Gujarat
- Oriana Façade – Surat Gujarat
- Sb Fab's – Bengaluru
- Elegant Designs – Mumbai
- Utsav Led Wall – Indore Mp
- Mudra Metal Works – Mumbai
- Nimisys Engineering – Bengaluru
- Pneumatic Vacuum Elevators And Lifts India Pvt. Ltd.
- Elegant Designs – Mumbai
- Ludhiana Glass House – Ludhiana
- Rishit Bunk Makers Pvt. Ltd. – Vadodara Gujarat
- Sujal Infra Pvt. Ltd. – Surat Gujarat
- Suraj Infra Llp – Surat Gujarat
- United Office Systems Pvt. Ltd. – Umbergaon Gujarat
- Almighty Aluminium Formwork Pvt. Ltd. – Rajkor Gujarat
- Building Comforts - Bhubaneswar – Odisha
- Asg Enterprises – Pune
- Space Management Systems India Pvt. Ltd. – Bengaluru
- Caterpillar Signs Pvt. Ltd. – Gandhinagar Gujarat
- Ss Solar Speciality – Ludhiana
- Om Ply Agencies – Hyderabad
- Micro Puftech Pvt. Ltd. – Gandhinagar Gujarat
- M/S. Gudhka Brother – Mumbai
- Alutronic Industries – Jhar Majri - Himachal Pradesh
- Varn Extrusion Private Limited – Surat Gujarat
- Ashiana – Kolkata
- Shraddha Modular Furniture Private Limited
- Rajeshri Enterprises – Jalna Maharashtra
- Kelwyn Door Cares India – New Delhi
- Hectafine Alusystems India Ltd. – New Delhi
- Hectafine Alusystems India Ltd. – Mumbai
- Sleek View – Guwahati – Assam
- Architecture Glazing Solutions – Ghaziabad Up
- Rainbow Expo Systems – Coimbatore
- In Effects Marketing – Hyderabad
- Shree Radheshyam Traders – Bhuj-Kutch Gujarat
- Gopinath Enterprise - Bhuj-Kutch Gujarat
- Baux Inpro Private Limited - Gurugram, Haryana
- Kelwyn Door Cares India – Delhi
- Closma India – Delhi
- Sleek International Pvt. Ltd. - Palghar Mumbai
- Sisa World – Chennai
- Maguda Engineering – Chennai
- Pearl Engg. & Polymers – Chennai
- Atari Infra Engineering – New Zealand
- Avaan International Pvt. Ltd. – Gandhinagar Gujarat
- Somya Glass & Hardware – Indore Mp
- Silver Fox Windows – Indore Mp
- Balaji Alubuilt (P) Ltd. – Indore Mp
- Prism Glass N Light – Mumbai
- Cera Craft Industries – Lucknow Up
- wemake Solutions Pvt. Ltd. – Chennai
- Ishicon Engineering – Pune Mh
- Aluplex India Pvt Ltd – Gadwal – Telangana
- Sri Ayyan Fabs – Bengaluru
- Pikai Enterprises – Allahabad Up
- Alcomo Technologies Llp – Pune
- Sri Lakshmi Balaji Fabrication – Vellore Tn
- Aadityaa Accurate Part Pvt. Ltd. - Vadodara Gujarat
- Stoichem Interio Private Limited - Panchmahals Gujarat
- Spacemaker Solution - Pune
- Sports And Sports International - Gejha Up
- K P Engineering - Ahmedabad Gujarat
- Grifin Corporations Pvt Ltd - Indore Mp
- Matrix Aluminium - Vadodara Gujarat
- Vidya Agencies - Berelly Up
- Arohan Forge Private Limited - Pune
- The Design Box - Vazirabaad Maharashtra
- The Innovatives - Goregaon
- Alenco Alu LLP - Vadodara Gujarat
- A B Enterprises - Bengaluru
- Safe Guard Net - Pune
- System Control - Maniyanur Tn
- Shyam Windows - Vadodara Gujarat
- Gurusai Industries Pvt. Ltd. - Maharashtra
- V-Tech Building Systems Private Limited - Bengaluru
- Computrick Wood & Alu - Ichchhapore Gujarat
- Balaji Plywood & Hardware - Sillod Maharashtra
- Renu Glass Industries - Chikhli Maharashtra
- Iform System Technology Llp - Noida
- Excellent Aluminium - Belgaum Karnataka



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