

Woodbonding®

Technologies



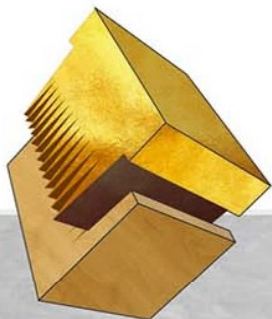
www.umisons.com



**Leadership
through
innovation**



India's 1st Choice in
Wood
JOINT
Machinery



make your wood like gold with **UMISONS®**
 Quality | Features | Cost Effective | Service | Value for Money

Engineering with Human touch...

'Umisons' is the first and only Indian company to focus on WoodBonding Technology and achieve the leadership position through innovative machine developments. Today, nobody else offer as wide a range of various machines that help wood industry save on precious wood and men-hours. That too at the lowest install cost!

The vision that the founder director Pravin Patel had, holds forth with the new generation of Umisons and works well with Indian market. The vision is : make the technology work for the humblest wood-workshop, make workmanship easy, fast, productive and profitable for all Umisons customers. Be humble and humane in dealings, provide customized products, all the necessary guidance and service as and when required.

The trust has been built over the decades along with a huge customer base. India can't do without Umisons m/cs, now more than ever - as markets are becoming more and more competitive. You need an Umisons m/c to win.



any wood
many idea
one name



Precise Counter Profile



find your best choice of machine

Finger Joint Machine



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Wood Assembling



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Panel Saw | Cold Press | CNC Router | Vacuum Membrane Press
Edge Bander | Multi Boring

Auto Finger Shaper

Diamond

High Speed
Double Active

UI-2406A

Hydraulic Drive for
High Quality & High Production



Specialized Hogging Cutters

For faster and finer finger facing.
Diamond package is suitable for
industries like Finger jointed board,
flush doors and block boards.

“Diamond package work well for units that need high quality in high volumes. With new PLC based auto controls on vice unit, the feeding, pressing, end-cutting of the job pieces is made effortless. Suitable for industries like finger jointed board, flush doors and block boards.”

Auto Function Jointer

UI-806 DA

Auto Feed



Auto Feeding



Sensor



End Cutting



Auto Eject



Online Feature

- Auto Feeding
- Sensor
- End Cutting
- Auto Eject

Special work table for "high speed double active"
production Once the job-piece is pressed and ready, it gets
transferred to second level of the table; vacating the place
for next job piece. Thus giving non-stop production.



Auto Finger Shaper

Auto Functions,
except Feeding

UI-1506 A/1206 A

Superior Finger-Jointing Machinery
for high quality in budget cost

“Diamond package work well for units that need high quality in high volumes. With new PLC based auto controls on vice unit, the feeding, pressing, end-cutting of the job pieces is made effortless. Suitable for industries like finger jointed board, flush doors and block boards.”

Auto Function Jointer

UI-806 MF Manual Feed



End Cutting for Sizing



Guide for job holding



Auto Eject

Online Feature

- End Cutting
- Pressing &
- Auto Ejecting



Finger Shaping M/c

Model	Power Require	Working Capacity W/H(mm)
UI-2406A	13 HP	600 / 150
UI-1506A	10.5 HP	375 / 150
UI-1206A	8 HP	300 / 150

Finger Jointing Vice

Model	Working Capacity L/W/H(mm)	Power Require
UI-806DA	2500 / 150 / 100	3.5 HP
UI-806MF	2500 / 150 / 100	3 HP

*Compress Air Required 10kg/cm²

Heavy Duty Package

UI-1206

Heavy Duty Range for
Big Size Hard Wood



Note : Platinum-Heavy duty range also have Manual clamping shaping m/c and Manual Pressing vice, as options

Cost-efficient m/c for mass manufacturers Auto drive finger shaping m/c, Pneumatic clamping model & Pressing Vice unit. For those industries who are aiming fairly high volumes. Particularly in Door, window-frames, flush-doors & big wooden sizes.

Special Vice UI-610 CS



Motorized End Cutter



Finger Shaping M/c

Model	Power Require	Working Capacity W/H(mm)
UI-1506	10.5 HP	375 / 150
UI-1206	8 HP	300 / 150

Finger Jointing Vice

Model	Working Capacity L/W/H(mm)	Power Require
UI-610CS	3000 / 150 / 100	3 HP
UI-610	3000 / 150 / 150	1 HP

Customize Size also Possible

*Compress Air Required 10kg/cm²

Hydro Pneumatic Pressing Vice

UI-610



Standard Package

UI-1206

High-quality m/cs for
the medium scale industriesAuto Drive Model with
Pneumatic Clamping

Motorized End Cutter

Useful In
Plywood
Industries For
Flush Door MakingEnd Cutting System for
Flush Door & Block Board
Industries

Special Vice UI-408 PC

Working Capacity :
L / W / H(mm) : 2500 / 100 / 50This vice is also available with
Hydro pneumatic cutting system-
UI-408 HC

Economy Package

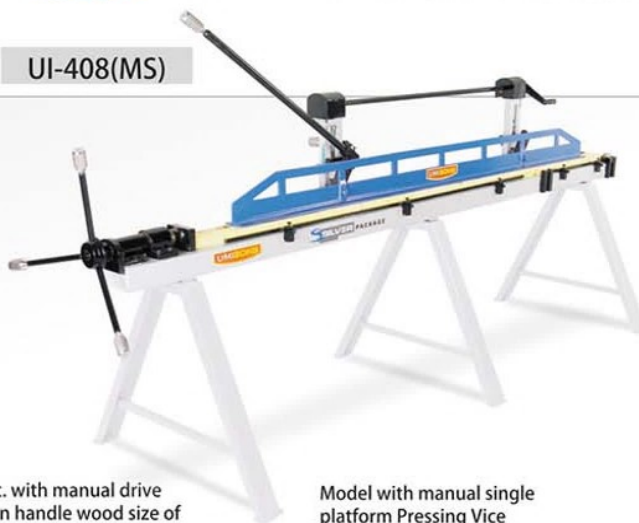
UI-804M

“ Finger shaping M/c. with manual drive
and clamping. It can handle wood size of
small, medium and large ”

SILVER

for the Entrepreneurs
who want to control budgets

UI-408(MS)

Model with manual single
platform Pressing Vice

Finger Shaping M/c

Package	Power Require	Working Capacity W/h(mm)
Gold	8 HP	300 / 100
Silver	4.5 HP	200 / 100

Finger Jointing Vice

Working Capacity L / W / H(mm)	Power Require
2500 / 100 / 50	----
2500 / 100 / 50	----

Panel-cum Door Assembler

UI-2P 1D

High-quality m/cs for
the medium scale industries



A Door Assembly



B Assembled Panel Board
Under hydraulic Pressure



Technical Specification

Panel Assembler	UI-2P 1D
Max. Working Length	2500mm
Max. Working Width	1250mm
Max. Working Thickness	40mm
Power Required (for hydro power pack)	2HP

Door Assembler

Max. Working Length	2150mm
Max. Working Width	1050mm

• For the Panel Board industry. Wood Panels require special bonding to prepare valuable solid wood boards. This m/c with Heavy-duty Hydraulic controls is useful to Door-Windows or panel board manufacturers and furniture makers.

• Door & Panel Assembler (Vertical)
Double side working, multi application One side assemble doors (as shown Pic. A) and second side, (as shown Pic. B) process panel assembly. Thus handling multi-tasking for units that aim to manufacture various types of jobs.

Clamp Carrier (Hydraulic/ Pneumatic)

UI-CC

Easy & Fast Operating
& maximize productivity

Layer : 8 / 10 / 14 / 20

Technical Specification

Panel Assembler	
Max. Working Length	2500mm
Max. Working Width	1320mm
Max. Working Thickness	80mm
Power Required	8HP





Auto Panel Assembler

UI-APA

Speed-Up Your
Production of Panels

JOINING
1 board in
minute*
* by using multiple screw clamp



Technical Specification

Panel Assembler	APA/ PA
Max. Working Length	2500mm
Max. Working Width	1250mm
Max. Working Thickness	50mm
Power Required (for hydro power pack)	3HP/ 2HP
Compress Air Required	10kg / cm ²

- Specially Design for solid wood panel industries who needs high production of finger joint board.
- This machine can make more than **400 boards per Shift**
- Heavy Duty Structure of machine gives more accuracy and strength in all kind of wood.



This m/c is operating by PLC based auto and manual controls.



- ◀ Put the glued strips on trolley and start the function in **UI-APA**, trolley automatically set all strips in the pressing platform and hydraulic cylinder press the sheet.



Give pressure on wooden planks by hydraulic cylinder then fix the screw clamp on wooden sheet top & bottom side by pneumatic gun. Put it outside from machine for natural dry as per adhesive curing time.



Door Assembler

UI-DA

DOOR | WINDOW | SHUTTER



- Used for :**
- Assembling Solid Wood Panel Door
 - Window
 - Shutter

Technical Specification

Door Assembler	
Max. Working Length	2440mm
Max. Working Width	1220mm
Max. Working Thickness	50mm
Power Required (for hydro power pack)	2HP
Compress Air Required	10kg/ cm ²



Wooden Beam Joiner

UI-BJ

Hydraulic

- Stagger butt joints to distribute flaws evenly throughout the beam
- This hydraulic m/c help in making sturdy beams from wooden planks, strips. m/c can be built in customized sizes.

Technical Specification

Wooden Beam Joiner	
Max. Working Length	2440mm
Max. Working Width	450mm x 2
Max. Working Height	150mm
Power Required (for hydro power pack)	2HP





Rebating Machine

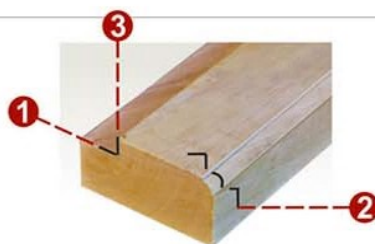
UI-1 PASS F

1 Pass with Auto Feeder

Rebating m/c
is part of both
frame master package

Inbuilt
Dust Collector

Rebating
& Edge designing
in single pass



This is how it does 3 processes in single pass



1. The first saw cuts one side of rebate
2. The molen cutter moulds the design
3. The second saw cuts the second side of rebate.

Faster frame rebating with valuable wood-saving
and frame edge designing

Combined with Frame Corner Jointer, this package
can prepare complete wooden frame; with rebating,
corner jointing and beautiful edge designing. It's a
very useful package for door/window mfrs. and
furniture makers.



1 Pass Machine Manual Feed

UI-1-PASS

Technical Specification

Rebating Machine	1 Pass Auto	1 Pass Manual
Max. Working Thickness	40 - 100mm	40 - 100mm
Max. Working Width	75 - 200mm	75 - 200mm
Max. Rebate Size	55 / 20mm	55 / 20mm
No. of Motors	4	3
Power Required	10 HP	9 HP





Frame Corner Jointer

UI-4 STAR

Door & Window Frame



Now
Replaceable Cutter
is also available



Technical Specification

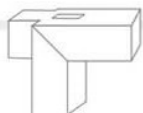
Frame Corner Jointer	4 Star	4 Star(H)
Max. Working Thickness	40 - 75mm	40 - 100mm
Max. Working Width	90 - 150mm	90 - 150mm
Power Required	14HP	14HP(H)
Compress Air Required	10 kg/cm ²	10 kg/cm ²

Here, you don't have to flip the wood to cut opposite slants on a frame piece, just move it to another spindle by keeping the bottom surface of the wood piece same. Thus, slants of the different corners match perfectly.



Double groove,
rectangular
joints for frame
application





Frame Corner Jointer (Combo)

5 STAR

Model with 5 Spindles

Use Dust
Collector
for superior
performance



UI-5 STAR

Traditional Door & Window Frame Maker



For making traditional + 90° Joints
with help of mortiser

Corner Joint



Technical Specification

Frame Corner Jointer	5 Star
Max. Working Thickness	40 - 100mm
Max. Working Width	90 - 150mm
Power Required	17HP
Compress Air Required	10 kg/cm ²

Uniquely Indian & most Economical machine

So easy that any unskilled worker can handle the job. Thus making the mass production fast and profitable. Also, transportation is made efficient, as instead of packing ready frames, all the wooden planks can be stacked singly, saving space.

Tenoning



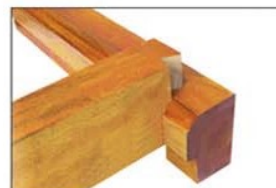
45° Step



D & W Easy Frame

UI-D&W

Traditional Door & Window Frame Maker



Technical Specification

D&W Easy Frame	D&W
Max. Working Thickness	40 - 100mm
Max. Working Width	90 - 150mm
Power Required	11.5 HP
Compress Air Required	10 kg/cm ²



Cuts the matching female-slot of the wooden Plank



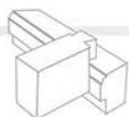
Cut The Dovetailed Male-end Of The Wooden Plank

Wooden Frame-making made Easy, Fast & Profitable



Uniquely Indian & most Economical machine

So easy that any unskilled worker can handle the job. Thus making the mass production fast and profitable. Also, transportation is made efficient, as instead of packing ready frames, all the wooden planks can be stacked singly, saving space.



Use Dust
Collector
for superior
performance



Wooden Frame Sander

UI-WFS

Speed-up your finishing of frames



This machine is specially designed for solid wood frame making industry.

Its give even quality on wooden frame and saves time.



Specifications

Technical Parameters

Maximum Working Width

200 mm

Working Thickness

15 mm To 100 mm

Working Length

>400

Speed Of Feeding

Variable

Revolving Speed Of Sanding Belt

1440 RPM

Size Of Sanding Belt

230 mm X 1550 mm

Roller Dia

160 mm

Motor Power

6 HP

Power Supply Requirement

3 Phase

Compressed Air Pressure

5 kg/ cm²

Dust Attraction Requirement

3 HP



Precise Counter Profile

UI-CP

Reverse Moulding Machine



Perfect counter profile cut
one side in single operation

- Perfect counter profile cut with reference to tenon in a single operation
- Get different sizes and designs with easy spindle adjustments



Face Cutting



Tenon Cutting



Profile Cutting



Gauge Setting
for final size

Technical Specification	UI CP
Max. Working Width	300mm
Max. Working Thick	60mm
Power Required	9.5 HP
Compress Air Required	10kg/cm ²



Spindle Moulder TSM-34



Moulding



Rebating



Grooving



Tenoning



Full Round



Half Round

Auto Feeder



Scan For
Specification



Mitre Gauge with Clamping



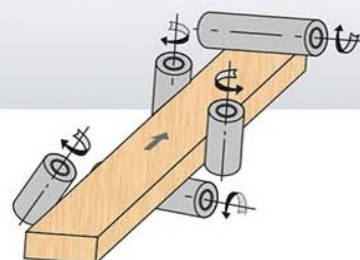
Auto Feeder : (Optional)

4 Side Moulder

UI-521-P



Exquisite production technology with orderly inside



4 Side Moulder

UI-521-S



Specifications	Unit	Technical Parameters UI-521-P / UI-521-S
Working Width	mm	25-210
Working Thickness	mm	8-140
Feeding Speed	m/min	6-36
Spindle Diameter	mm	40
Spindle RPM	r/min	6500
Power Requirement	kw	22
No. Of Spindle	-	4+1
Air Pressure	mpa	0.6

Door Lock Drilling

Make Lock Rail Drilling Easy And Accurate

UI-LRD Manual- 3 Head

Used In

Solid Wood Door - Flush Door -
Pvc Door - Wpc Door



Lock Rail Slot



Top and Bottom
Hinge Boring



Technical Specification	UI-LRD Manual	UI-LRD CNC
Max. Working Length	225mm	225mm
Max. Working Thickness	50mm	50mm
Max. Working Depth	100mm	100mm
Power Require	6 HP - 3 Phase	2.2 Kw - 3 Phase
Compress Air Require	10kg/ cm ²	10kg/ cm ²

Door Lock Drilling & Hinge Drilling CNC

UI-LRD CNC



High-Speed Spindle



Smart Touch PLC



Feature

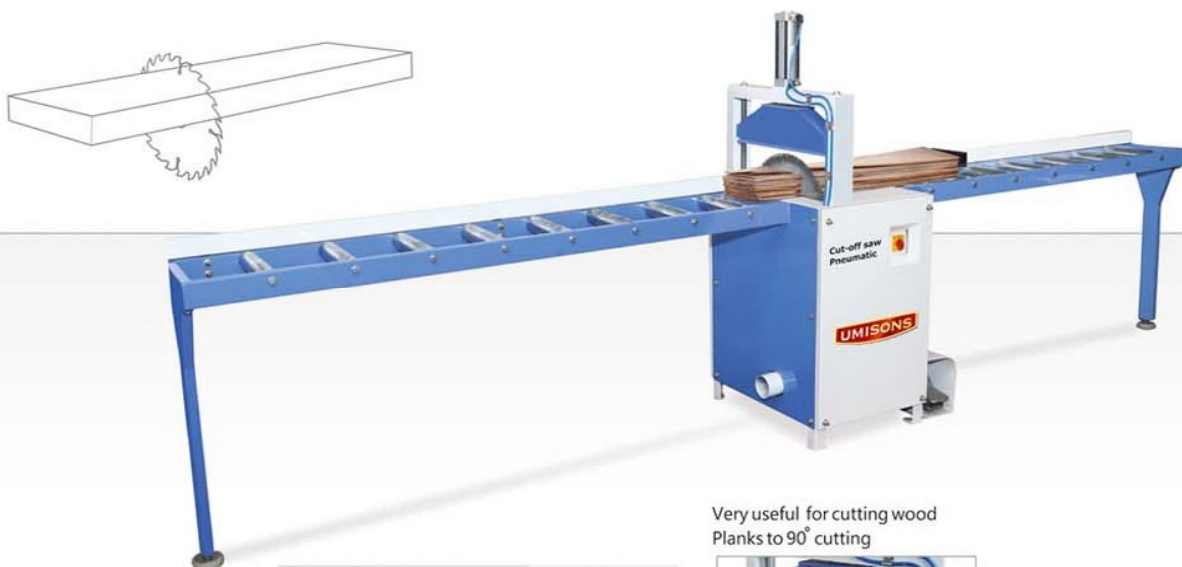
- Precision guide rail runs smoothly.
- Advance control system provides processing efficiency

Cut-off Saw

UI-COS

Pneumatic

Used for even end cutting of small width Ply
Core bunch (Fali) & also for wood planks



Technical Specification	UICOS
Max. Cutter Dia	18"
Work piece Size (W x T)	200 x 100mm
Electric Motor	2 HP
Compress Air Require	10 kg / cm ²

Very useful for cutting wood
Planks to 90° cutting



Glue Applicator

UI-607 / 605

Pneumatic



Reduce adhesive cost
with modern technology.



Technical Specification	UI 607/605
Working Width	150mm
Working Thickness	15 to 50mm

Sliding End Saw

UI-TC

with Liner Bearing Slide



Used for
• End Cutting of wooden planks in 90° for joinery or sizing
purpose

• Available Table Size in Length: 4' / 7'

Including : Ele. Motor 2 HP (3Phase), Switch, "V" Belt
Excluding : Circular Saw

Dust Collector

UI-PDC-50 Pulse Jet Dust Collector



**100%
MADE IN
INDIA**

Dust Collector for
wide belt sander machine &
laminar sander machine

The dust collector systems designed for the wide belt sanders has the reverse pulse jet technology. The suction is done through an arrangement of duct which is connected to the machine with the flexible pipes.

Customized Dust Blower & Duct Inlet

UI-B3



Model		Single Bag	Double Bag	Four Bag	UI-PDC-50/ 100
Motor - 3 Phase		2 HP	3 HP/ 5HP/ 7.5 HP	5 HP/ 7.5HP	5 HP/ 10 HP
Inlet Dia x No.	inch	4" x 2	4" X 3 / 4	4" X 3 / 4	Customize
Air Volume	cfm	1200	1800 / 2700 / 4000	2700 / 4000	3000 / 6000

A useful yet low-cost solution of tackling saw dust in your workshop. Manufacturing any size, any requirement to suit your plan/project. Technically Superior Operationally Economical Dynamically balanced impellers Swivel wheels for easy movements

UI-DC74 4 Bag Model

UI-DC 21 1 Bag Model

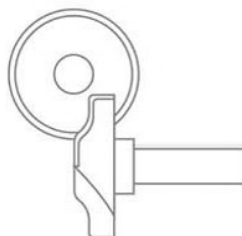


UI-DC 32 2 Bag Model



Multi Grinders

UI-PAC



**SUPPORT
MACHINERY**



Premium Auto Cool Model

With spl. carbide tips planner blade grinding attachment & unique auto-cooling system

Grinder for woodworking tools & Cutters

Common Features for M/cs

Finger Joint Cutter can be sharpened.

Special grinding wheel allows all 3 operations of TCT cutter grinding. Movable setting of height adjustment for ele. motor to bring grinding wheel at job-level.

Technical Specification	Premium Auto-Cool
Electric Motor	0.5 HP 440/220 V
Circular Saw Dia	7" to 18"
Grinding Wheel Dia	150mm
Carbide Planner Blade Size	18"

Function for Multi Grinder



Router Bit



Moulding
Cutter



Grooving
Cutter



Carbide tip Planner Blade

Auto Feed Sander

UI-PC S(H)

Combination of 2 M/c

1. Auto Feed Sander (Heavy Duty)
2. Auto Joint Heat & Press (60")



Valuable wooden core pieces can be joined perfectly

for 'Zero Gap' & 'No Overlapping' in ply-sheets

Imported chain conveyor system give more precise sanding



Chain Conveyor



Perfect Sanding

Auto Joint Heat & Press

UI-PCJ A60

Joining 1 panel layer
in **1 minute**^{*}
60" width



* Working table accommodates core pieces of up to 60" width

Technical Specification

	UI-PCS(H)	UI-PCJ A60
Electric Power	5 HP Motor	3 kW Heater
Working Width	-	60"
Compress Air Require	-	10 kg/cm ²



Core pieces are tapered on Sander, after proper shearing



Tapered edges be glued and placed face-to-face on 'Heat & Press'



Ply Core Zig Zag Cutter

UI-PC Z - 26 / PC Z - 52

Improve Ply Layer & Ensures
High quality of Plywood



Zigzag setting of ply-core pieces improve ply layers, ensuring High Quality of ply wood

For preparing ply-core pieces till now, the plywood industry has been labour-intensive in regard to core layering. This m/c mechanizes the process, that too - very economically. No ply industry can remain viable in global competition era without adopting to 'ZigZag'.



M/c's zigzag cutting press keep punching. Keep putting ply-core pieces under the punch. The gauge will ensure uniform zagzag cut.



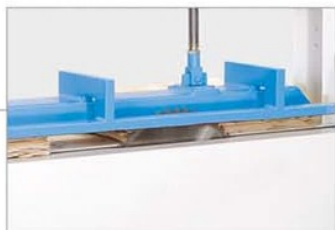
Such zigzag pieces can be match-set opposite one another, while preparing the core-layers. Then gluing of pieces ensure almost zero-gap.

Technical Specification	UI PC-Z 26	UI PC-Z 52
M/c Working Size	26 inch width	52 inch width
Work piece Thickness	up to 3mm of wood core	
Electric Motor	3 HP	5 HP

Core Cutting Saw

UI-CCS

Accurate core veneer cutting
for improve plywood quality



Its cut bunch of core veneer accurately, also saving labour cost and time.



Adjustable gauge for cutting require size of core veneer.



Technical Specification	UI-CCS
Electric Power	5 hp
Max. Working Thickness	70mm
Max. Working Length	1300mm
Compress Air Require	10 kg/cm ²

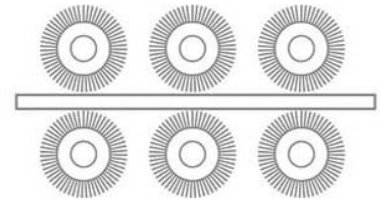


Brush Sanding Machine

UI-BS 6

6 Head / 4 Head

Top & Bottom



Also Available

Steel Wool Sanding Machine

for getting even shining on
Plywood
Flush Door
Block Board
by specially designed buffing brush
(after dipping process)

Technical Specification	UI-BS-6	UI-BS-4
Brush Roller	4 Head + 2 Cleaning Head	4 Head
Brushing Roller Size	210mm Dia x 1320mm Length	210mm Dia x 1320mm Length
Max. Feeding Speed	7 Mtr./ Min.	7 Mtr./ Min.
Sanding Sheet Thickness	Min.4 mm To Max 52 mm	Min.4 mm To Max 52 mm
Power	19 HP	17 HP

•Brush sanding machine is specially developed for uniform sanding operation on plywood, block board and flush door.

•With new brushing concept it will provide consistent grain and roughness as desire against belt process.

•The brush required less brushing time and work long lasting. Save belt replacements time and increase efficiency in sanding operation.



Dipping Machine

UI-DIP

12 Roller

Uniform Operation gives quality dipping
also reduced labour cost

Technical Specification	UI-DIP
No. of Roller	12 Nos.
Roller Diameter	160 mm with neoprene rubber coating
Pump	Branded 1HP pump for lift chemical from tank rollers
Gear Box	2 HP, 50 RPM
Total Power Requirement	3 HP
Chemical Tank	Heavy Dusty MS (SS Sheet) or Plastic (Optional)
Heating System	Electric heater or oil coil (Optional) for Heating Chemical





Plano Wide Belt Sander

Plano Wide Belt Sander

UI-PWBS

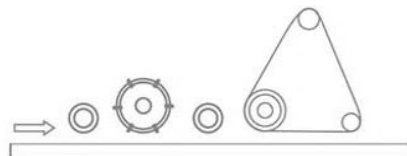
with replaceable knives
Spiral Planning Roll + WIDE BELT SANDER

Use Dust
Collector
for superior
performance



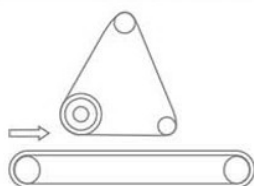
Useful for :

Solid wood finger jointed panel,
Door & Furniture industries

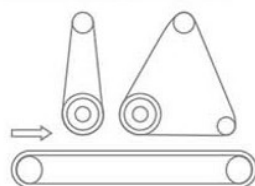


Replaceable Knives Planing Roll gives Precise Planing
& Sanding Belt for superior finishing.

Technical Specification	UI-PWBS
Width of Panel	1300mm
Thickness of Panel	15mm to 50mm
Minimum working length	610mm
Feeding speed	7-20m / min
Total Motor power (KW/HP)	41.25/ 55



UI-1300-SH



UI-1300-DH

Wide Belt Sander

UI-1300 DH

Use Dust
Collector
for superior
performance



UI-1300-SH : for sanding Ply Wood, Block board &
Flush Door

UI-1300-DH : Specially designed Heavy duty machine
for calibration & sanding on plywood, block board & flush door.

Technical Specification	UI-1300-SH	UI-1300-DH
Width of Panel	40 - 1300mm	40 - 1300mm
Thickness of Panel	2.5 - 150mm	2.5 - 150mm
Minimum working length	540mm	540mm
Feeding speed	7 - 30m / min	7 - 30m / min
Total Motor power (KW/HP)	22.12 / 30	63.62 / 85
Compress Air Require	10 kg / cm ²	10 kg / cm ²

Cold Press TCP-100



Dual limit switch to control the pressing of work piece.

- Heavy duty platen designed to take maximum compression loads.
- Pressing platen is synchronized on rack & pinion for smooth up-down movement with eccentric rollers.

Specifications	Unit	Technical Parameters	
		TCP-50	TCP-100
Max. Load Work Table	ton	50	100
Platen Size	mm	2500 x 1250	
Max. Platen Opening	mm	1000	
No. Of Hydraulic Cylinders	nos	2	4
Bore Size Of Hydraulic Cylinders	mm	125	
Total Power - 3 Phase	hp	5	

Panel Saw TPS-32



Smooth-running and powerful saw unit.

Pneumatic Clamp (Optional) :

Pneumatic clamp allows more maneuverability in panel handling, sizing and cutting.

Model : PC + Three step allows more flexibility for handling small pieces

Model : PC Single step

Specifications	Unit	Technical Parameters
Sliding Table Length	mm	3200
Sliding Table Width	mm	375
Max. Diameter / Bore -		
Saw Blade	mm	300 x 30
Max. Diameter / Bore - Scoring Blade	mm	120 x 20
Saw Blade Speed	rpm	4000 / 5000
Scoring Blade Speed	rpm	8500
Tilting Of Saw Unit	degree	90°-45° (manual)
Motor For Saw Blade / Scoring Blade	hp	7.5 / 1
Total Power - 3 Phase	hp	8.5



Scoring saw precision lever mechanism



Digital Read Out (DRO-R) OPTIONAL



Digital Read Out (DRO) OPTIONAL

Optional : DRO that displays the job length digitally. This enables a setting precision accuracy of +/- 0.1 mm.

CNC Router TCR-1325



CNC Router with Vacuum Table
Also Available



Scan For
Specification



Rotary attachment (Optional)

Vacuum Membrane Press TVP-48



Scan For
Specification



Heating by tube heater



Work table with single side opening
for easy loading

Edge Bander TEB-25



Scan For
Specification



Coil holding
capacity



Pneumatic
cutter



Gluing



45°
Tilt table

Multi Boring 2 Head TMB-22



Scan For
Specification





Very many ideas of
**maximizing the
wood-usage &
profits**

Mfg. by:

UMISONS INDUSTRIES

122/1/2, Rajdeep Estate

Opp. Kailash Petrol Pump, N.H.8, Naroda,
Ahmedabad-382 330, Gujarat (India)

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