

PRIMA^{series}

Catalogue of special m/cs for Wood-craft



Absolute Leader  [©]
For now. Forever.

Widest range of machinery that the industry need, for perfect selection

Highest selling machines in every segments, assuring market reliability

Largest manufacturer with biggest sales and service network in India

The Brand with a promise of best quality, latest technology and greatest value for money



Redefining Panel Process Technology



Panel Process Machines & Solutions



Solid Wood-Working Machinery

© Copyright. All rights reserved by

JAI INDUSTRIES Gujarat, India.

+91 79 2291 1400 \ 1900 \ 1990 • sales@JAIindustries.com • www.JAIindustries.com

Rev. 01 | 02 | 19 |

manav media



Be better equipped for specialized wood-craft-work with premium range of solid wood machinery from :



For now. Forever.



Better Engineering



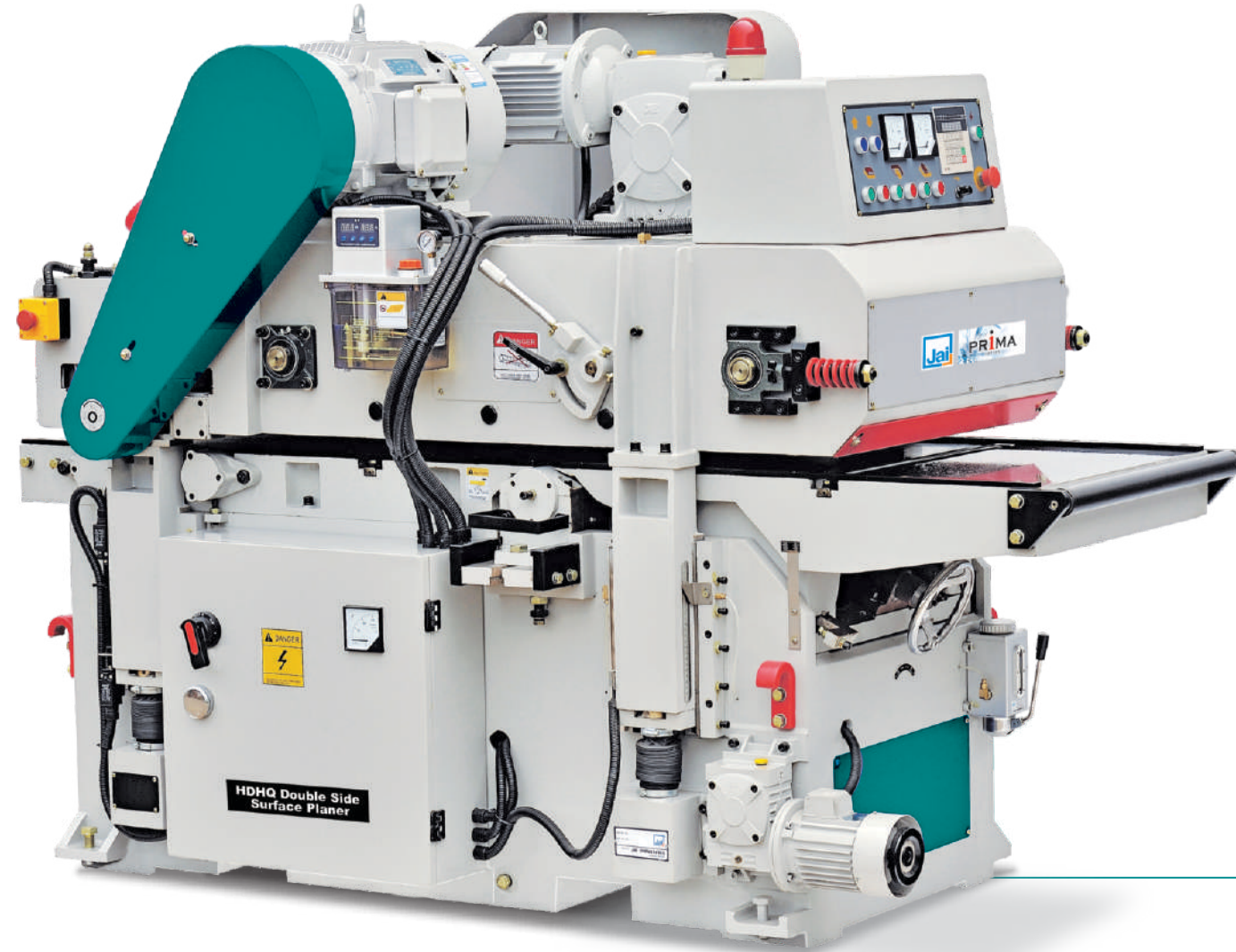
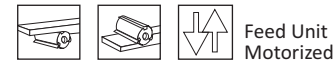
Best Features



Greater Economy

Index

HDHQ Double Side Surface Planer	2-3
Four Side Moulder.....	4
Straight Line Rip Saw.....	5
Oscillation Mortiser.....	6
Round End Tenoner.....	6
Dovetailers.....	7
Wide Belt Sander.....	8
Clamp Carriers.....	9
Other useful machines.....	10-11



Salient Features :

- Powerful cutting capacity
- Good shock-absorb and stable Cast Iron quality
- Independent heavy duty motors for both Spiral cutter rolls
- Spiral cutter rolls improve cutting quality & speed
- Variable feed speed
- Numerical display unit for thickness setting
- Auto lubrication device keeps the machine always lubricated during working



Top & Bottom 6 line spiral steel cutter roll as standard accessory

Sr.	Specifications	Unit	J-4430 (S)	J-4630 (S)
1	Working width	mm	430	630
2	Working thickness	mm	200	200
3	Min. working length	mm	260	260
4	Max. cutting depth (Top cutter roll)	mm	8	8
5	Max. cutting depth (Bottom cutter roll)	mm	5	5
6	Cutter roll diameter	mm	1010	1010
7	Spindle speed	rpm	5000	5000
8	Variable feed speed	m/min	0 - 16	0 - 16
9	Feed motor	hp	3	4
10	Top cutter roll motor	hp	10	15
11	Bottom cutter roll motor	hp	10	10
12	Feeding unit up-down motor	hp	0.5	0.5
13	Total power	hp	23.5	29.5

Note : S = Spiral Roll

Model J-4430 & J-4630 without spiral roll also available
Use Dust Collector with m/c for superior performance

Powerful m/c with good stability & shock absorbing capacity, improved cutting quality & variable feed speed

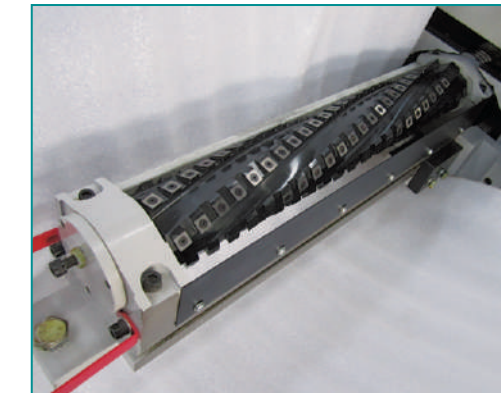
Equipped with pressure plate that guarantees smooth machining of short workpiece, increasing production output



The feeding unit can be adjusted up-wards and down-wards. The elevating range reaches 10 mm, and thus the processing precision can be enhanced with powerful feeding



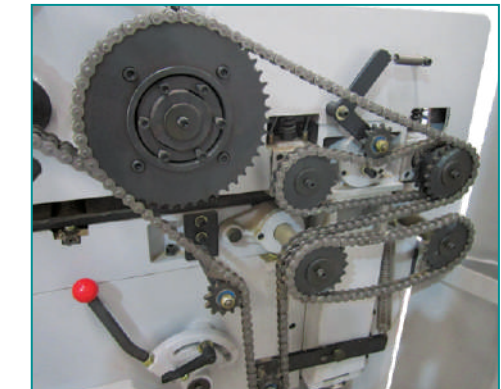
Auto lubrication system circularly lubricate the entire machine, ensures efficient operation and increases service life of m/c



It can be conveniently pulled out on a support for easy replacing or setting the cutting blades



High quality hard chrome plating process gives smooth surface to table. Such wear resistance gives smooth level forever

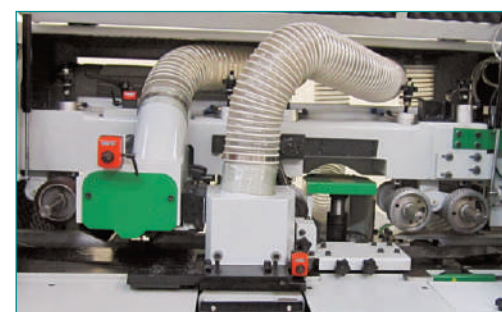
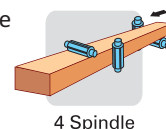


Provided with drive feed roller structure, ensuring a stronger and smoother feeding equipped with overloading protection mechanism



Equipped with imported numerical display unit. The thickness processing can be controlled directly on control panel. The precision can be up to 0.1 mm and the feed speed can be adjusted

Various models available



All spindles are adjustable and their key devices are positioned on front of the machine for convenience.



Feed rollers are driven through gearbox to give smooth feeding. Power drives for all spindles for heavy duty cutting requirements.

**Width, Thickness & Shape in one pass.
Thus Cost Effectively enhancing productivity**

Salient Features :

- Sturdy built heavy-duty machine to suit Indian working condition for precise application of four side operation in one pass.
- Use for mass production of door frames, window frames, wooden floors etc.
- Separate motors for each spindle to ensure efficient power transmission.
- Power full drives for the cutter blocks delivers high torque for heavy duty cutting requirements.
- Top feed rollers for easy feeding of work piece with variation in thickness.
- Bed lubrication to reduce friction and improve feeding of timbers.
- Sealed safety enclose to reduce noise levels, improve extraction and operator safety.

Sr.	Specifications	Unit	J-4423
1	Working width min / max	mm	25 / 230
2	Working thickness min / max	mm	8 / 120
3	Feeding speed	m/min	6 to 12
4	Top & bottom spindle cutter dia	mm	120Φ
5	LH & RH spindle cutter dia min / max	mm	100Φ / 180Φ
6	Spindle shaft dia	mm	40Φ
7	Top & bottom spindle cutter motor	hp	7.5 / 5.0
8	LH & RH spindle cutter motor	hp	5.0 / 5.0
9	Feeding motor	hp	3
10	Feed beam up-down motor	hp	0.5
11	Air pressure required	kg/cm ²	5 to 7
12	Total power	hp	26

Use Dust Collector with m/c for superior performance

A unique m/c, much safer than upper rip saw due to its patented engineering design & parts



Anti-kickback device, avoids kick- backing of wood, ensure safe cutting



Automatic lubrication system circularly lubricated the entire machine, insure efficient operation and increase service life.



Special material conveyor chain blocks with teeth for better friction and resistance, make workpiece feeding smoother.



User friendly Control Panel. Feeding speed of conveyor can be regulated from panel



Machine is equipped with Laser Light as standard feature

Salient Features :

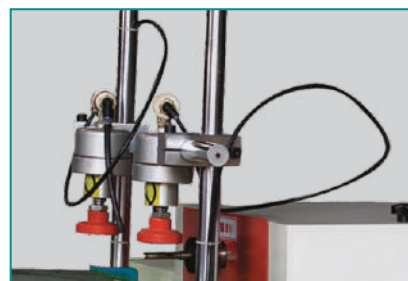
- Conveyor chain blocks and guide rails of high quality special materials, auto lubri-cation, high precision and long service life.
- Electrical lifting feed table, for frequently adjusting the height, reduce labour intensity and improve efficiency.
- Variable (frequency converter controls) feeding speed, much more suitable for processing various wood.
- Patented unique splitting cutter prevents saw blade seizing during process.
- Patented tooth design on side of conveyor chain block, cut off the wood pieces jammed beside saw blade, minimizing probability of blade stuck. Helps avoid injuries.
- It is much safer than upper rip saw due to saw shaft rotating in different direction.

Sr.	Specifications	Unit	J-1153	J-1163	J-1164
			Top Cutter	Bottom Cutter	
1	Max. working thickness	mm	5 ~ 85	5 ~ 75	5 ~ 115
2	Min. working length	mm	230	200	200
3	Max. saw size	mm	305Φ	355Φ	455
4	Spindle diameter	mm	25.4Φ	50.8Φ	50.8
5	Feeding speed	m/min	13.3 - 23.3	10 - 30	5 - 22
6	Spindle speed	rpm	3750	3200	2920
7	Size of dust collection port-Dia.	mm	100Φ	125Φ	125Φ
8	Feeding motor	hp	1	2	3
9	Lifting motor	hp	0.33	0.33	0.33
10	Main spindle motor	hp	10	15	20
11	Total power	hp	11	17.33	23.33

Model J-1153 (Top Cutter) also available
Use Dust Collector with m/c for superior performance



Highly reliable workability.
A m/c with more features,
better engineering



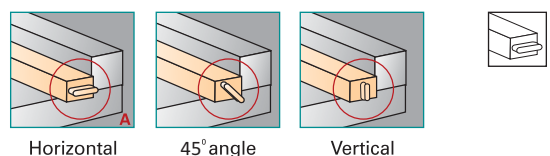
Pneumatic Clamping for better gripping

Sr.	Specifications	Unit	J-1940
1	Mortise width - maximum	mm	115
2	Mortise depth - maximum	mm	90
3	Table stroke	mm	80
4	Tilting of table	degree	± 20°
5	Spindle speed	rpm	9500
6	Total power	hp	3



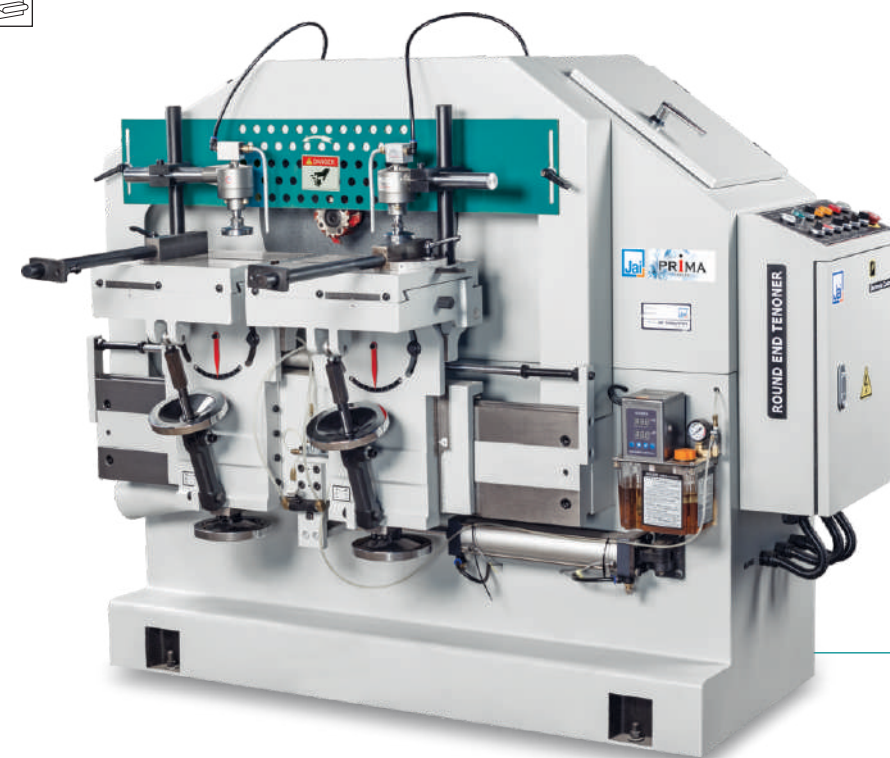
Round End Tenoner • J-1941

Various tenon axis angles :



Heavy duty & high-tech m/c
for high productivity.
Gives horizontal, vertical &
45° tenon axis angles

Sr.	Specifications	Unit	J-1941
1	Tenon width - maximum	mm	100
2	Tenon thickness - maximum	mm	25
3	Tenon depth - maximum	mm	70
4	Tenon diameter - maximum	mm	25 Φ
5	Spindle diameter	mm	30 Φ
6	Adjusting angle of work table (Front)	degree	10°
7	Adjusting angle of work table (Left & Right)	degree	± 10°
8	Spindle speed	rpm	7500
9	Main motor power	hp	3
10	Feeding motor power	hp	1
11	Total power	hp	4



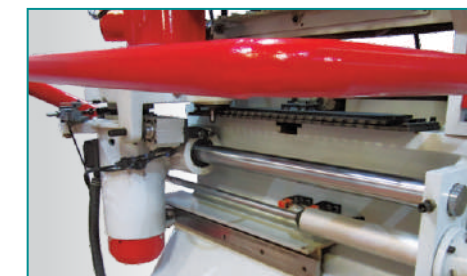
Dovetailer Auto

J-1950 (A)

Efficient & economical, with high spindle speed



Continuous auto tenoning motion cycle
provides efficiency & economy



Tenoning head feeds on hard chrome plated
guide rod, for maximum stability of tenoning
operation and maximum wear resistance



All the machine controls are centralized on one
control panel for convenience

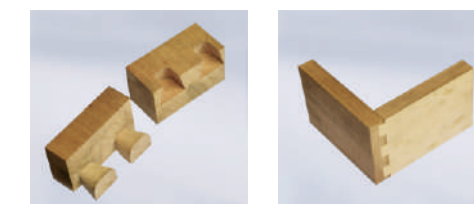
Dovetailer Manual

J-1950



General Features :

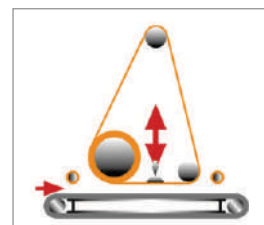
- Process dovetailed tenons/mortises simultaneously for accurate jointing
- Width and depth of dovetailed tenon/mortise are adjustable
- Pneumatic clamps provided for convenient work piece clamping
- High Spindle speed
- Simple to operate, simple to maintain



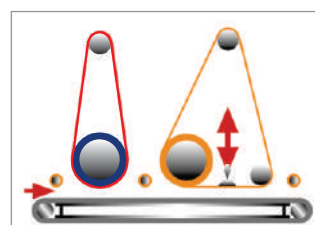
Sr.	Specifications	Unit	J-1950 (A)	J-1950
1	Max. working width	mm	480	550
2	Max. working thickness	mm	25	25
3	Feed stroke	mm	50	50
4	Shaft diameter	mm	12.7	12.7
5	Spindle speed	rpm	18000	18000
6	Motor power	hp	2	2

Various models available

Fine sanding of wood & veneer for quality finish. With high-end electric control system & engineering features



RP



R-RP



Sr.	Model No.	Unit	J-1300 RP	J-1300 R-RP
1	Working width	mm	40 - 1300	40 - 1300
2	Min. working length	mm	580	580
3	Working thickness	mm	2.5 - 150	2.5 - 150
4	Sanding belt speed (Front)	m/s	18	24
5	Sanding belt speed (Rear)	m/s	n/a	18
6	Feeding speed	m/min	0 - 19	0 - 19
7	Front roller diameter	mm	210	240
8	Rear roller diameter	mm	n/a	210
9	Main motor power	kw	18.5	22 + 15
10	Feed belt motor power	kw	3	3
11	Working table motor power	kw	0.37	0.37
12	Brush motor power	kw	0.25	0.25
13	Air pressure required	kg/cm ²	5 to 7	5 to 7
14	Total power	kw	22.12	40.62

Use Dust Collector with m/c for superior performance

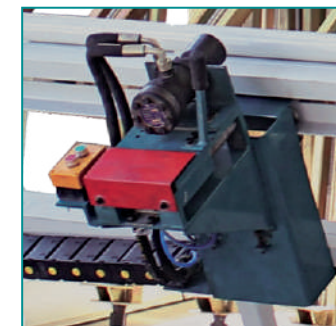


Model J-1300 R-RP : This wide belt sander is designed for three functions: thickness calibration, surface sanding and fine surface polishing. The two sanding belt can be used at the same time, or you can only use the 1st sanding belt or only used the 2nd sanding belt separately. Besides, the polishing pad can be adjusted up-and-down to change the pressure according to different work piece.

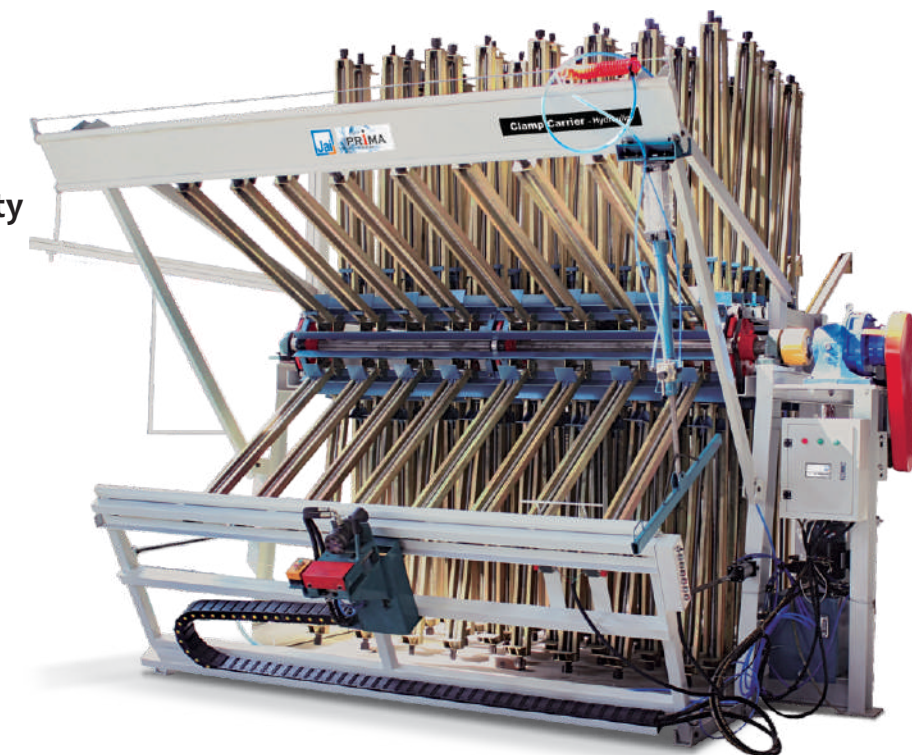
Clamp Carrier - Hydraulic

J-1408 (H)

Heavy duty clamps provide powerful, uniform & fast clamping. Minimize operator fatigue & maximize productivity



The machine equipped with hydraulically operated clamp tighteners, providing extremely powerful, uniform and fast clamping performance.

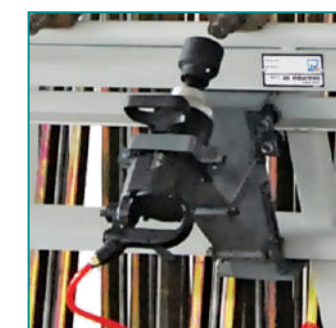


Sr.	Specifications	Unit	J-1408 P	J-1408 H	J-2008 P	J-2008 H
1	Max. pressing length	mm	2600	2600	2600	2600
2	Max. pressing width	mm	1250	1250	1250	1250
3	Pressing thickness	mm	10 - 90	10 - 90	10 - 90	10 - 90
4	No of sections	no	14 Rows	14 Rows	20 Rows	20 Rows
5	No of clamps per each section	no	8	8	8	8
6	No hold down bar	No	1	1	1	1
7	No of pneumatic motor gun	Set	1	1	1	1
8	Voltage & rotary power	hp	415V / 50Hz / 1.5 hp	1.5	415V / 50Hz / 1.5 hp	1.5
9	Hydraulic pump motor power	hp	-	5	-	5
10	Approx. machine net weight	kg	4600	4800	5800	6000
11	Overall dimension	mm	4500 x 3800 x 3650	4500 x 3800 x 3650	5000 x 3800 x 3650	5000 x 3800 x 3650

P = Pneumatic
H = Hydraulic

Clamp Carrier - Pneumatic

J-1408 (P)

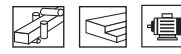


The machine equipped with pneumatically operated clamp tighteners, providing extremely uniform and fast clamping performance.

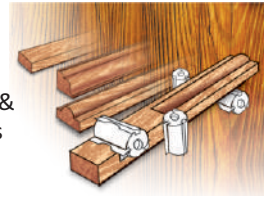


Other useful machines

Four Side Moulder • J-4230

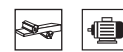


Width, thickness & shape in one pass



Model	Four Side Moulder J-4230
Working width - min / max	40 - 225 / 1 1/2" - 9"
Working thickness - min / max	6 - 150 / 1/4" - 6"
Feeding speed - feet per min	12
Spindle shaft diameter	40 / 1.575"
Spindle electric motor - No x HP / RPM	4 x 5 / 2800
Feeding electric motor - No x HP / RPM	3 x 0.5 / 1440
Total power required - HP	21.5

Two side Thickness Planer • J-2318



(Heavy duty with Anti kick-back mechanism)



Specially designed spiral, serrated 2 in-feed rolls for positive feeding



Models	Two side Thickness Planer J-2318	Thickness Planers J-603	J-624 (H)
Machine size	18" x 7"	24" x 8"	24" x 9"
Upper, bottom	5 / 1440, 3 / 1440	5 / 1440	5 / 1440
Power reqd HP / RPM			

Thickness Planers • J-603



(With Anti kick-back mechanism)



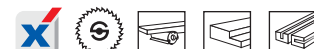
J-624(H)



(With Anti kick-back mechanism)



Surfo Max-S® • J-3018

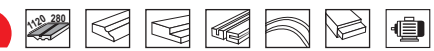


Model	Surfomax-S J-3018
Machine size	18" x 78"
Power reqd HP / RPM	5 / 1440



★ Various models & sizes available in these range

HDHQ Spindle Moulder • J-1504 (ST)



(Heavy Duty, High Quality with Sliding Table)



Modula Auto Feeder

Model : AF-38 : 3 Roller, 8 speed, 1 HP 3Ø motor for J-1504 (ST)
It can be ordered any time separately

Tilting Arbour Circular Saw • J-634 (ST)



(With Sliding Table)

Model	HDHQ Tilting Arbour Circular Saw J-1634	Tilting Arbour Circular Saw J-634 (ST)
Circular dia. / Cut depth / speed - RPM	14" x 4 1/2" x 4000	14" x 4 1/2" x 4000
Power reqd HP / RPM	5 / 1440	3 / 1440



HDHQ Tilting Arbour Circular Saw • J-1634



(Heavy Duty, High Quality with Sliding Table)



Angular & Cross cutting with easy sliding



Modula Panel Saw • J-3200.in +



* 5 Years warranty on sliding table

Model No.	Unit	J-3200.in +
Sliding table length	mm	3200
Sliding table width	mm	415
Max. diameter / bore - saw blade	mm	355 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 - manual	degree	90° - 45° (manual) with electronic digital read out
Motor for saw blade / scoring blade	hp	7.5 / 1



Salient Features :

- Sturdily built heavy duty m/c. Precise burr free cutting
- Electronic Digital readout of saw unit tilt
- Rip fence with fine setting for precise positioning

★ Ask for detailed catalogue of these machine