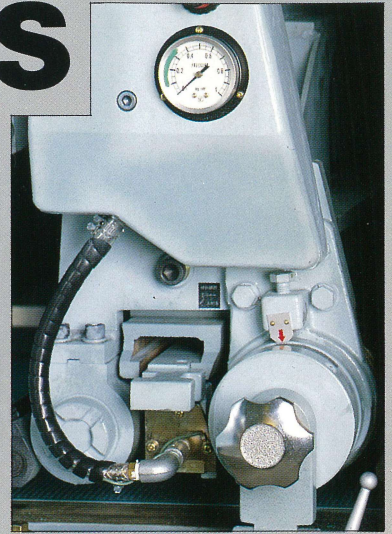


WOODWORKING MACHINES



MARUNAKA TEKKOSHO INC.

“Basic Model Suitable for Flat Surfaces”

Simple, clean, and efficient. Highly automated. Marunaka's spray painting machine has given spray painting a completely new image. The PA is the reciprocating basic model with the spray gun moving back and forth linearly. The shape of the workpiece is accurately read by sensors and recorded. Only the indicated parts are painted. Since

the angle of the spraying gun can be freely changed, single-surface painting is possible. This model is the most suitable for flat workpieces, frames, decoration, and edging material.

The E type, which makes possible uniform and highly efficient electrostatic coating, has been added to the series.

AUTOMATIC SPRAY PAINTING MACHINE

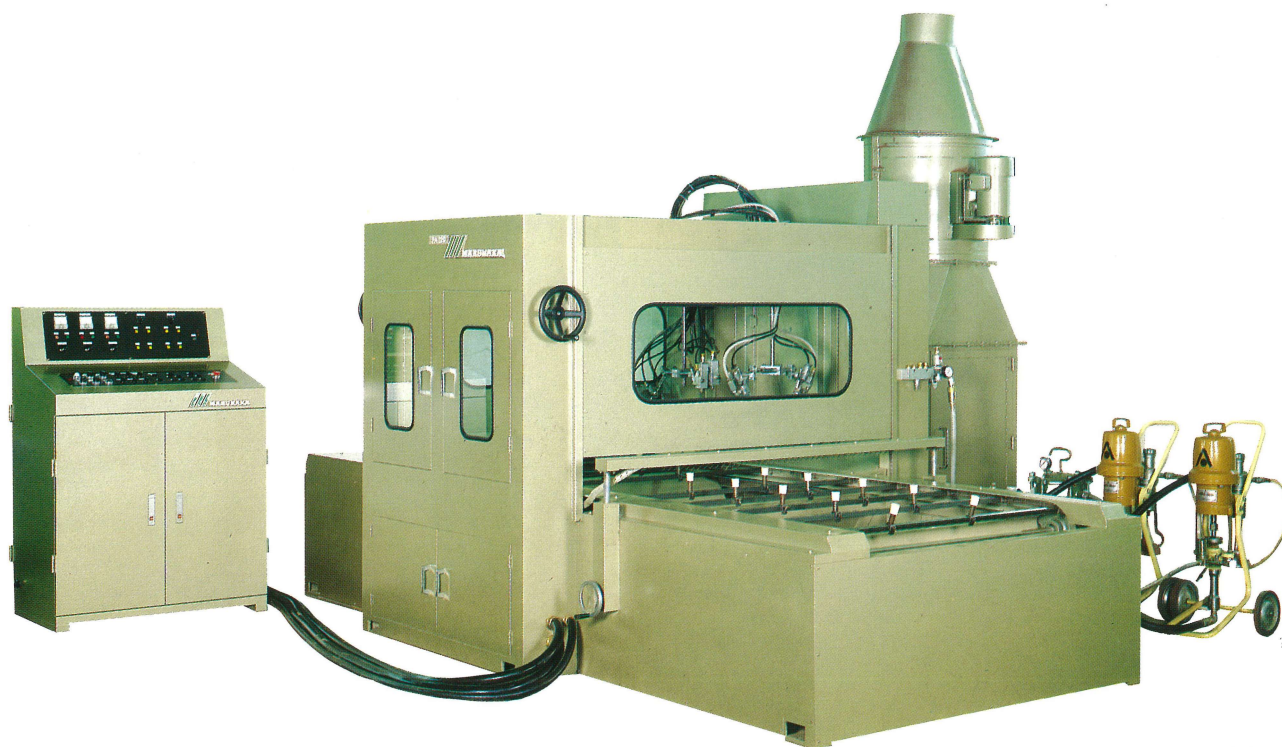


Photo: **PA-120**

■ SPECIFICATIONS

Reciprocating spray head		Unit	Single			Double		
Model			PA-70	PA-120	PA-180	PA-70W	PA-120W	PA-180W
Coating width		mm	700	1,250	1,850	700	1,250	1,850
Max. coating thickness		mm	70					
Feed rate		m/min	0 - 6 (Variable)					
Gun travelling speed		m/min	0 - 60 (Variable)					
Power required for	Feed	kW	0.4	0.4	0.75	0.4	0.4	0.75
	Reciprocating head	kW	0.4	0.4	0.4	0.4 × 2	0.4 × 2	0.4 × 2
Machine dimensions	Overall length	mm	3,000	3,600	3,600	3,700	4,300	4,300
	Overall width	mm	2,000	2,500	3,200	2,000	2,500	3,200
	Overall height	mm	2,000	2,000	2,100	2,000	2,000	2,100

● BLOWER MOTOR FOR DRY BOOTH (option)

Model		PA-70	PA-120	PA-180
Reciprocating head				
Single	kW	0.75	1.5	2.2
Double	kW	1.5	2.2	3.7

● COMPRESSOR FOR AIR SPRAY GUN

Number of spray gun		1	2	4
Compressor motor	kW	3.7	5.5	11

*Compressor motor when using airless spray gun: 2.2kW

“The High Speed of 20,000 rpm Achieves a Beautifully Finished Surface”

The distinctive feature of this high-precision, high-speed router is the capability of changing the spindle speed rapidly within the range of 10,000 to 20,000 rpm by a simple lever manipulation. The adoption of ball bearings of angular contact to support

the spindle and its lubricating system permits consistently high accuracy. In addition, powerful brakes, a dust exhaust fan, a cooling fan, and various other new devices are incorporated for enhanced machinability.

HIGH SPEED ROUTER



Photo: **RO-1**

■ SPECIFICATIONS

	Unit	Ro-1s-1w	
Vertical movement by handwheel	mm	140	
Vertical movement by foot pedal	mm	70	
Max. distance between chuck and table	mm	210	
Max. table tilt	°	45°	
Swing		610	
RPM of spindle	rpm	S	20,000
		W	10,000-20,000
Inner dia. of chuck	Ømm	8, 12, 16	
Power required	kW, P	S	2.2, 2
		W	1.5, 2 or 4
Table area	mm	820 × 540	
Overall width × length × height	mm	820 × 1,370 × 1,400	
Packing volume	m ³	Approx. 3.1m ³	
Weight	kg	470	

“Highly Efficient Processing with Infinitely Variable Feeding Speed.”

Marunaka's highly appraised band saws offer blades with excellent sharpness and durability by the use of the alloy “stellite.” Model JB-M650S adds to the design of the previous model the feature of automatic vertical control of feeding with infinitely variable speed in order to achieve smooth feeding at the most suitable speed of even

long or warped workpieces. Operation has suddenly become much easier and efficiency is significantly increased. This automatic band saw has various new safety features such as circuits for prevention of automatic starting. This unit combines many new refinements with ease of use.

BAND SAW



Photo: **JB-M650S**

■ SPECIFICATIONS

Model		Unit	JB-M650S	JB-M700
Saw wheel diameter		mm	650	700
Saw wheel speed		rpm, Hz	702 · 750, 50 · 60	700
Maximum thickness of workpiece		mm	375	350
Maximum distance between saw and guide		mm	450	400
Distance from saw to frame		mm	625	600
Table tilt (to right)		°	45°	45°
Band saw length		mm	4650	4690
Feeding speed		m/min, Hz	1.7 – 17.2 – 20, 50, 60	—
Power requirement	Saw wheel	kW	3.7	2.2 (3.7 – 5.5)
	Feeding	kW	0.2 single phase	—
	Vertical Adjustment of Feeding	W	25	—
Saw dimensions (width × thickness × length)		mm	102 × 0.7 × 4,650	—
Table height		mm	885	880
Table dimensions	Width	mm	825	780
	Length	mm	800	700
Overall machine dimensions	Width	mm	1,580	1,420
	Length	mm	1,345	900
	Height	mm	2,150	2,100
Weight		kg	750	540

This epoch making planer allows cutting to the desired width. A device that allows planing the edge (side of shorter dimension) of a workpiece is attached. This epoch making automatic single-surface planer model KV-502 combines the functions of two units into one. The edges of boards or other wide workpieces to a maximum width

of 450mm can now be planed reliably. Infinitely variable feeding speed makes possible the planing of a great range of materials under a variety of conditions. The use of three blades makes possible planing to a beautiful finish. Various new features such as a fixed table and digital gauge displays are provided to facilitate line production.

AUTOMATIC SINGLE SURFACE PLANER



Photo: **KV-502**

■ SPECIFICATIONS

Model		Unit	KV-502
Maximum workpiece width		mm	500
Maximum workpiece thickness		mm	300
Maximum workpiece width when planing edge of workpiece		mm	150
Range of thicknesses allowable when planing edge of workpiece		Min. – Max.	90 – 450 (minimum of 50 as option)
Cutter head	Block shape		∅ dia. 100 round body jointer type with 3 blades
	Cutter head speed	rpm (Hz)	5,200 (50)/6,200 (60)
Blade dimensions		mm	510 × 32 × 3.2
Power requirements	Cutting head	kW, 4P	3.7, 4
	Feeder	kW, P	0.75, 4
	Main table vertical adjustment	kW, P	0.4, 4
	Auxiliary table vertical adjustment	kW, P	0.4, 4
Feeding	Input feeding roller diameter	∅mm	80 × 2
	Removal feeding roller diameter	∅mm	80 × 1
	Roller pitch	mm	264
	Speed (infinitely variable over the range given)	m/min (Hz)	6 – 12.5 (50)/7 – 15 (60)
Table rollers		mm	dia. 80 × 3
Overall unit dimensions		mm	1,000
Overall unit dimensions	Width	mm	1,020
	Length	mm	1,080
	Height	mm	1,070 – 1,370
Weight		kg	950

“Top Boards: VE; Pedestals: VD”

The Certo Molder is an automatic copying machine for forming corners. It has a very compact design and can form corners of any size of workpiece. Operation is performed by simply pressing foot switches. Its safety

features are excellent: For example, the cutter is automatically disengaged when workpieces are mounted or dismounted and it will stop automatically if the workpiece is insecurely clamped.

CERTO MOLDER



Photo: VD

■ SPECIFICATIONS

	Unit	VE	VD
Max. workpiece thickness	mm	80	120
Radius of curvature of workpiece	mm	10 - 80	10 - 80
Contact roller dia	mm	100	100
(Root dia. of cutter)	Min. - Max.	mm	mm
		80 - 110	80 - 110
Cutter O. D. (max.)	mm	160	160
Spindle dia.	mm	30 (25.4)	30 (25.4)
RPM of spindle	rpm (Hz)	8,500 (60) 7,000 (50)	8,500 (60) 7,000 (50)
Motor	kW, P	2.2, 2 (3.7)	3.7, 2
Overall width × length × height	mm	1,200 × 1,100 × 1,300	1,200 × 1,100 × 1,400
Weight	kg	320	380

“Standard Type with Emphasis on Ease-of-handling”

Marunaka's Wide Belt Sander has an excellent reputation for effortless sanding and a beautiful finish. It is a standard general use type with a vertically adjustable table. A cushion of air applies a uniform and constant pressure to the surface being worked. Eccentric rollers provide three kinds of

sanding patterns. All sorts of workpieces such as warped or twisted materials or flash panels can be sanded. The latest YS-65X and -130X models have significantly increased ease of operation with the addition of dust-proof seat switches and lamps indicating the proper depth of sanding.

WIDE BELT SANDER

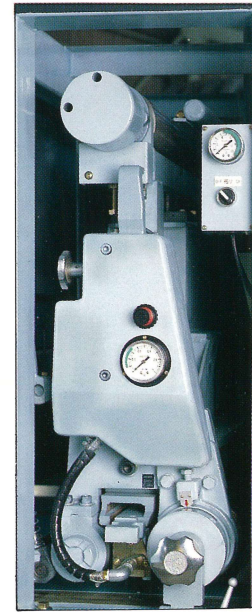


Photo: **YS-65X**

■SPECIFICATIONS

	Unit	SC-30A	SC-45A	YS-65X	YS-100A	YS-130A	YS-130X
Max. working size (width thickness)	mm	310 × 170	460 × 170	660 × 180	1,000 × 160	1,300 × 160	1,300 × 160
Min. sanding width	Drum pad type	mm	300	300	340	470	458
	For base finish	m/sec.	20	20	20	20	20
Sanding belt speed	For coating finish	m/sec.	0 - 10	0 - 10	0 - 10	0 - 12	0 - 12
	Standard	m/min.	8.12	8.12	0 - 18	0 - 18	0 - 18
Feed rate	Option	m/min.	0 - 18	0 - 18	—	—	—
	Standard	kW	7.5	7.5	15	22	30
Sanding belt drive motor	Option	kW	11	11	18.5	30	30
	Standard	kW	0.4	0.4	0.75	1.5	1.5
Feed drive motor	Option	kW	0.75	0.75	—	2.2	—
	Table up/down motor	kW	0.4 (option)	0.4 (option)	0.4	0.75	0.75
Machine dimensions	Width	mm	1,030	1,440	1,700	2,207	2,500
	Length	mm	1,200	1,200	1,460	1,713	1,500
	Height	mm	1,820	1,820	1,880	2,023	1,800
Machine gross weight	kg	1,300	1,500	2,000	3,600	4,000	2,900

*() indicates optional specifications.

CRAFTNICS, Marunaka's New Concept

Ever since its founding, Marunaka has ceaselessly insisted that its products be of top-quality. In order to do this, it has cultivated a spirit of craftsmanship which it feels is necessary. In addition, Marunaka has been continuously collecting relevant information and pushing mecatronics, the leading edge of research and development.

These efforts have crystallized into the form of a new technology, Marunaka's "Crafronics". This has proved to be the answer to the diverse needs of our customers for high-performance, easy-to-use, and durable equipment.



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