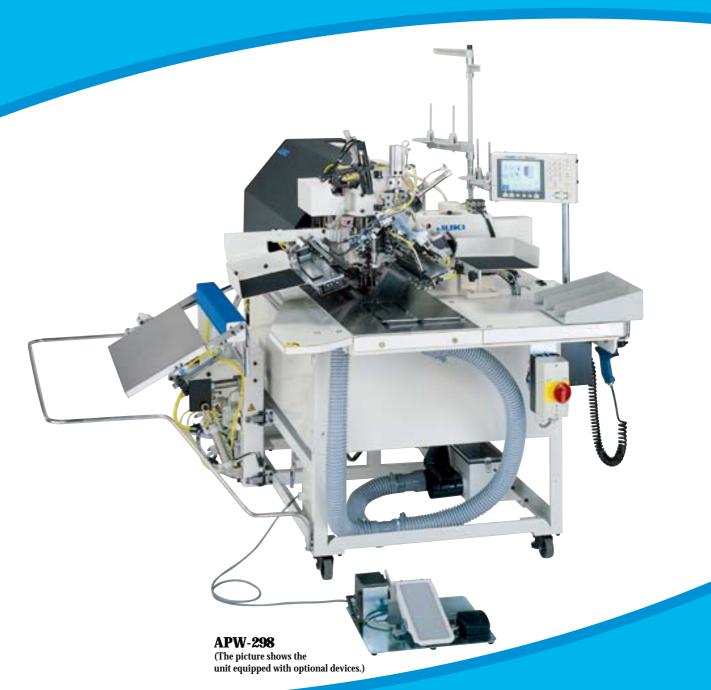


Automatic Pocket Welting Machine with Automatic Welting Patch Feeder

$\begin{array}{c} APW-297 \\ APW-297B \\ APW-298 \\ \text{(for sewing bottoms)} \end{array}$

The machine dramatically upgrades seam quality and increases productivity in every sewing process, including the after-process.

THIS IS HIGH-GRADE MACHINE LEADS THE INDUSTRY TOWARD THE NEW CENTURY.



APW-297 APW-298

- In addition to improved seam quality and increased productivity, the APW-297 and APW-298 also delivers dramatic improvements in basic performance such as better maintainability, reduction in thread length after thread trimming, and the adoption of a needle-feed type machine head and direct-drive machine-activating method.
- Newly developed welting patch cutting device and automatic flap/ pocket bag feeder are now optionally available. These components work to upgrade seam quality and further increase productivity over all processes, including the after-process.



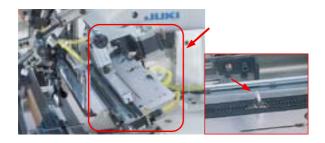
APW-297

NEWLY DEVELOPED DEVICES (OPTIONAL) FOR UPGRADING THE BASIC PERFORMANCE OF THE MACHINE

*The same optional parts are offered for the APW-297 and APW-298. Since optional parts can't be retrofitted to the machine after purchase, be sure to specify any that you may need when placing your order

Welting patch cutting device: SA102

- The knife is motor-driven. To cut the welting patch as short as possible, it automatically adjusts itself to the sewing length established on the operation panel. This enables more consistent welting patch feed and folding operations.
- The welting patch cutting knife is located under the welting patch table. This keeps the knife from damaging the garment body. In addition, the knife can be changed with ease.
- Welting patch cutting, a job conventionally done by hand in the after-process, is no longer required. The result is a substantial reduction in the processing time.
- The clamp exclusively used during welting patches cutting allows the cutting device to cut welting patches even when the binder is in the lower position. This further eliminates wasted time due to welting patch cutting.



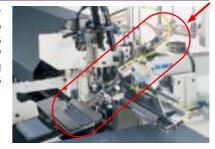
Automatic flap and pocket bag feeder: SA104

- The device works to sew the flap and pocket bag at the same time with the pocket bag placed on the flap.
- Simultaneous sewing of a flap and pocket bag produces beautifully finished welts free from uneven material feed. In addition, there's no longer any need to attach the pocket bag on the flap side, a task normally required in the after process.



Automatic flap feeder: SA103

◆ The fulcrum at the center of the automatic flap feeder claw clamps flaps securely and automatically feeds them to the sewing position. This promises increased productivity.



HIGHER PRODUCTIVITY

The length of thread remaining after thread trimming is further reduced to eliminate thread picking

- The length of thread remaining at the beginning and end of the seam has been shortened to 15 mm for needle thread and 22 mm for bobbin thread.
- Thread picking to streamline the after process is no longer required.
- The shortened remaining length of thread can reduce bobbin thread waste, increase the number of welts sewn per bobbin, and reduce the frequency of bobbin thread changing.



Shortened cycle time

- When running at its maximum sewing speed of 3,000 rpm, the machine increases the traveling speed of the clamp foot and promises an extremely rapid response time at startup and stop. This explains the machine's unrivalled production speeds among automatic welting machines.
- The operator can set the next welting patch, flap (with the automatic flap feeder), and garment to be sewn while still sewing those currently set. This shortens the cycle time and increases productivity.

Productivity:

Sewing welts without flaps → 2,900 pcs./8 hours Sewing welts with flaps → 2,400 pcs./8 hours (with the automatic flap feeder)

(Sewing conditions: Sewing length...150 mm; Allowance...25%)

THE MACHINE IS EQUIPPED WITH EXCELLENT CAPABILITIES AS STANDARD

Needle-feed system using a stepping motor

- The needle-feed completely synchronizes with the clamp foot travel. This reduces resistance between the clamp foot and material, thereby improving seam quality.
- The operator can set the length of needlefeed and the ON-OFF condition of the needle-feed system on the operation panel. As a result, the machine can quickly respond to a wide variety of materials and sewing conditions.
- The operator can also establish the needle-

feed length for reverse feed sewing individually on the operation panel.





utomatic welting patch

- To ensure consistent welting patch feed, the automatic welting patch feeder securely clamps welting patches made of soft materials or without interlining cloth.
- With the automatic welting patch feeder, the operator can set the next welting patch to be sewn while the machine is still sewing the current welt. This increases productivity



(*The photo shows the automatic welting patch feeder with the welting patch cutting device installed.)

The direct drive method is adopted to drive the machine

- The direct drive reduces machine time by instantly responding to machine startup and stop commands from the operator.
- The direct drive uses no belt. This eliminates sewing troubles caused by the belt such as contamination of the material and thread entanglement.
- The direct drive reduces noise and vibration during operation to create a more comfortable work environment.



Compact AC sevomotor

ewly developed division

- The front binder goes up during sewing. This upgrades productivity by allowing the operator to easily set the next garment to be sewn while the machine is still sewing the current one.
- The binder comes straight down after clamping a welting patch. This prevents the welting patches from sagging due to air resistance, thereby improving the consistency of welting patch feed. In addition, the operator has a wider view around the sewing area when the binder is in the upper position.



The front binder goes up

Crank-type folding plate

- The folding plate folds the welting patch and presses it down. This ensures that the folding plate can flexibly respond to changes in material thickness.
- The folding plate clamps welting patches securely and prevents slippage of welting patches made of slippery material.



Before folding



Foldina

e-size operation panel improved capabilities

- The panel is an interactive type that uses large icons for easy operation.
- The error messages that appear on the display are highly detailed and given in characters. The messages clearly inform the operator of the appropriate corrective action.



As many as 100 different patterns can be stored in memory and 10 different cycle sewing programs can be established.

- As many as 100 different sewing patterns can be stored in memory, each with its own settings for sewing length, operation of the knife, operation of the stacker, and other sewing conditions. In addition, new patterns can be created quickly using the copy function.
- For cycle sewing, as many as 10 different programs can be registered. As many as 5 different sewing patterns can be programmed in combination in each program.



APW-298 for slanted pocket with flap

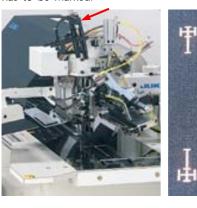
- The function to separately drive the needle bars allows flexible setting of the welt angle, - a key advantage in the sewing of various kinds of pocket shapes such as slant pockets and welt pockets.
- The machine is equipped as standard with JUKI's unique seven-set turret-type corner knife. By responding to various sewing conditions such as slanted sewing angles, different sets of corner knives can be used separately to produce welts with increased accuracy.



THE MACHINE IS EQUIPPED AS STANDARD WITH A HOST OF CAPABILITIES THAT INCREASE EFFICIENCY

Dart reference marking lamp

The lamp makes it easier to set a garment body on the machine. Moreover, the positioning of the garment body no longer has to be marked.



Bobbin thread remaining amount detecting device

The detecting device warns the operator to replace the bobbin thread before it runs out. This prevents sewing troubles such as re-sewing.



Bobbin thread winder

Since the bobbin thread winder is driven by an external motor mounted outside the sewing machine, the bobbin thread can be quickly wound while the machine is at rest. This improves the workability of bobbin thread changing.



OPTIONS * The same optional parts are offered for the APW-297 and APW-298. They can be retrofitted to either machine.

Dart stretcher: SA106

• The dart stretcher holds the end of the material when making a welt on a darted part of the material to make it easier to set the darted part and improve the reliability of the welting.



■ Right single-welt and double-

welt changeover device: SA111

• The device opens/closes the clamp foot

by fingertip control. This enables easy

changeover of the sewing machine

specification between double-welt and

right-single-welt types simply by

changing the binder.

Automatic pocket bag presser:

used to hold pocket bags under the garment body when welting and pocket bag sewing are performed concurrently.



SA107

• The automatic pocket bag presser is



• To improve workability, the automatic interlining feeder automatically delivers rolled interlining cloth onto the table and cuts it.

SA109

Suction device: SA108

 The device picks up the garment body by suction force to facilitate setting of materials on the machine.

Use the device with suction motor (SA91).

Suction motor: SA91

• This is the blower motor for the suction device (SA108).

Stand for standing work: SA110

● This stand is mounted under the main body of the machine to adjust the height of the main body to standing work.

Clamp bar stacker: SP44

- Since the main body of the stacker swings around to catch a material, even smaller garment bodies can be consistently stacked (350 mm from the pocket position at the minimum). Stacked garment bodies are secured with the bar.
- This prevents a stacked garment body from slipping down.



Auxiliary receiving plate (right): ŠA73N (Part No.:GSA-730000A0B)

This is the receiving plate for accessories

for welting patches, etc.

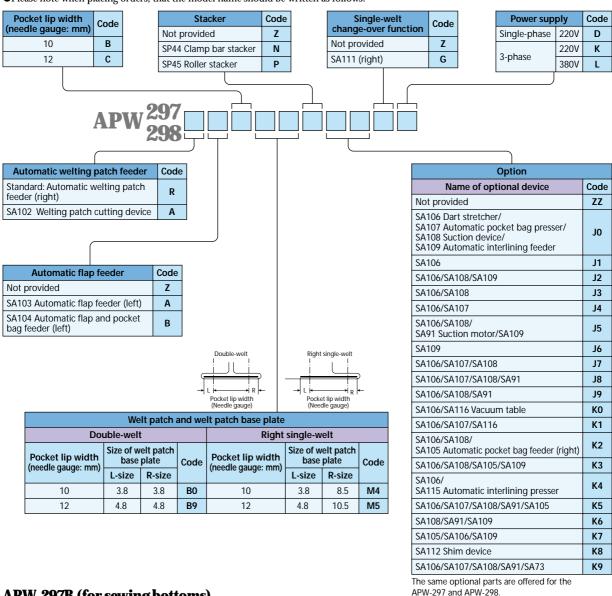
Shim device: SA112 (Part No.: GSA-112000A0)

◆ This device encloses a garment body between its upper and lower parts and feeds it to the needle entry area. It is especially useful for difficult-to-feed garment bodies.



WHEN YOU PLACE ORDERS

•Please note when placing orders, that the model name should be written as follows:



APW-297B (for sewing bottoms)

(needle gauge: mm)

10

12

L-size

3.8

4.8

R-size

3.8

4.8

	cket lip width	Code	Stacker		Code		Coo	de	Power supply		Code
(nee	dle gauge: mm)		Not provid	ed	Z	change-over func			Single-phase	220V	D
10 B			SP44 Clam	p bar stacker	N	Not provided	Z		2	220V	K
	12	С	SP45 Rolle	r stacker	Р	SA111 (left)	Н		3-phase	380V	L
APW297											
			7	二二							
	(
Διι	tomatic welting r	atch fooder	Code						Option		
Automatic welting patch feeder Code Standard: Automatic welting patch								Namo of o	ptional device		Code
feeder (left)							Not pro		ptional device		ZZ
SA102 Welting patch cutting device B							<u> </u>	Darts stretcl	hor		J1
(left)											
								SA108 Suct			J3
Double-welt						Left single-welt	SA106/S presser	SA107 Auto	matic pocket ba	ag	J4
Automatic flap feeder Code						g	•	SA107/SA10	าย		J7
Not provided Z									08/SA91 Suction	motor	J8
SA103 Automatic flap feeder (right) C Light R						→ L i← → i R ← Pocket lip width				motor	
				Pocket lip width (Needle gauge)		(Needle gauge)	SA106/SA108/SA91 J9				
Welt patch and welt patch base plat							SA106/SA116 Vacuum table				K0
	Double-welt				Left single-welt			SA107/SA11	16		K1
	Pocket lip width			Pocket lip w		Size of welt patch base plate Code					

R-size

3.8

4.8

L-size

8.5

10.5

M6

M7

B0

В9

(needle gauge: mm)

10

12

SPECIFICATIONS

Model name		al mama	APW-297	APW-297B	APW-298			
		ername	For straight pocket with flap	For sewing bottoms	For slanted pocket with flap			
Max. sewing speed			3,000rpm (1,000 ~ 3,000rpm)					
	Regular stitching		Standard: 2.5mm (2.0 ~ 3.4mm)					
Stitch length	Fastening	Safety stitching		m (0.5 ~ 1.5mm)				
	stitching	Back-tack stitching		m (0.5 ~ 3.4mm)				
Kinds of welts			Parallel double-welt, pa (with/withou		Parallel double-welt, parallel single-welt, slant double-welt, slant single-welt, trapezoidal stitching (with/without flaps)			
Sewing length (welt length)			18 ~ 180mm* (in increments of 1mm) (as small as 25mm when the corner knife is used)					
Number of patterns that can be stored in memory			100 patterns					
Number of cycles that can be stored in memory			10 programs (1 program Combination of 5 patterns at the maximum)					
Needle gauge			10mm, 12mm, 14mm (optional **)					
Needle (at the time of delivery)			ORGAN Mt × 190 Standard (# SCHMETZ 190R Standard (Nn		ORGAN DP x 17 Standard (#16) #16 ~ #18 SCHMETZ SY3355 Standard (Nm100) Nm100 ~ Nm110			
Needle bar stroke			34.4mr	n	33.4mm			
Thread			SPUN #50					
Hook			Vertical-axis 1.6 fold-capacity hook					
Machine head			2-needle, needle-feed, I with center knife	ockstitch machine	2-needle, needle-feed, lockstitch machine with organized split needle bar and center knife			
Machine head motor			Compact AC servomotor (direct-drive system)					
Thread take-up			Slide type					
Lubrication			By an oiler (machine head and hook)					
Lubricating oil			JUKI New Defrix oil No. 2 (equivalent to ISO VG32)					
Needle-feed system			Stepping motor control					
Cloth feeding system			By servomotor drive					
Automatic welting patch feeder			Provided as standard					
Bobbin thread remaining amount detecting device			Provided as standard					
Bobbin winder			By an external motor					
Power consumption			550W					
Compressed air and air consumption			0.5MPa (5.0kgf/cri̇), 40Nℓ/min					
Total weight			330kg 350kg					
Dimensions (excluding the stacker)			980mm (W) x 1,650mm (D) x 1,200mm (H)					

- * The machine also supports longer sewing length (220mm).

 ** When the needle gauge of 14mm is used, the corresponding optional parts must be purchased.



APW-298 (The picture shows the unit equipped with optional devices.)

• To order, please contact your nearest JUKI distributor.



8-2-1, KOKURYO-CHO, CHOFU-SHI, TOKYO 182-8655, JAPAN PHONE: (81) 3-3480-2357, 2358 FAX: (81) 3-3430-4909, 4914 http://www.juki.com

* Specifications and appearance are subject to change without prior notice for improvement.

* Read the instruction manual before putting the machine into service to ensure safety.

* This catalog is printed on recycle paper.

