

APW-N Series

APW-895N / Lockstitch, Automatic Welting Machine (for straight pockets with flaps)
APW-896N / Lockstitch, Automatic Welting Machine (for slanted pockets with flaps)

The machine is flexibly adaptable to the sewing of various pockets.



APW-896N with option installed

APW-895N/896N

APW-895N/896N

Machine time is reduced to provide increased productivity

Increased productivity

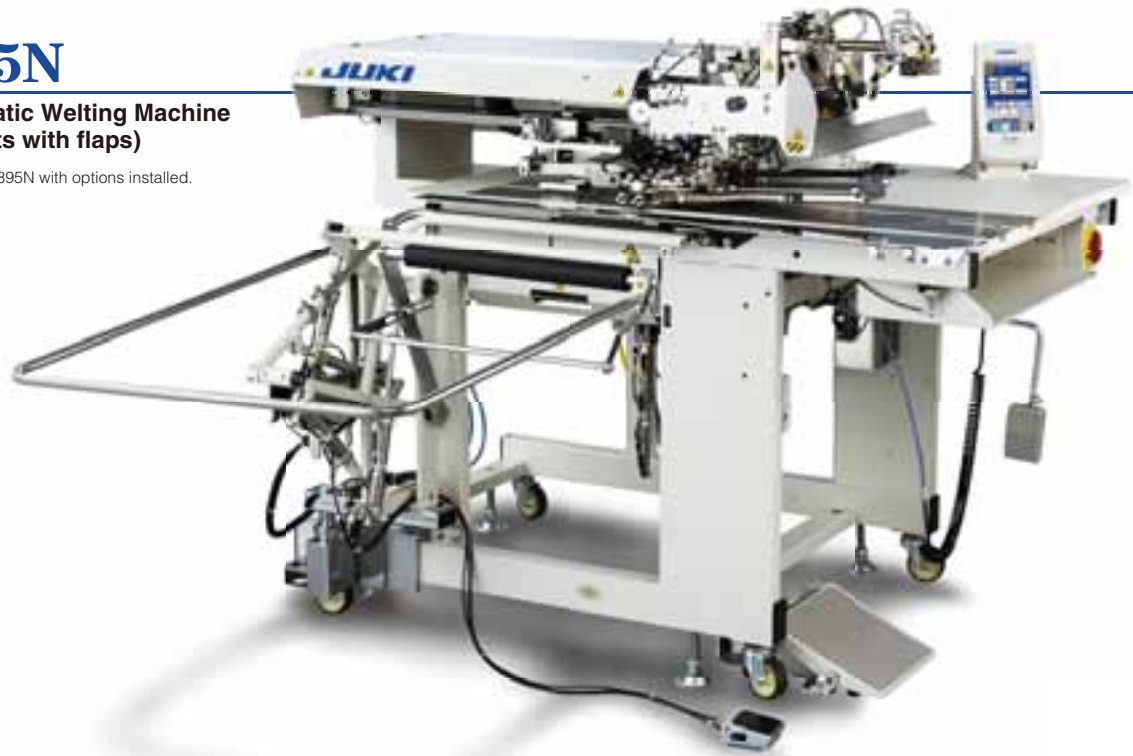
In addition to the high-speed machine head with a maximum speed of 3,000 sti/min, faster movement (jump and forwarding) of the clamp foot achieves a shorter machine time.

Welting process without flaps	Welting process with flaps
1900~2300 pcs. / 8 hours	1600~1900 pcs. / 8 hours

APW-895N

Lockstitch, Automatic Welting Machine
(for straight pockets with flaps)

* The picture shows the APW-895N with options installed.



APW-896N

Lockstitch, Automatic Welting Machine
(for slanted pockets with flaps)

* The picture shows the APW-896N with options installed.



APW-895N/896N



The machine supports the sewing of straight pockets (with flaps) on suits, jackets and pants.
Double-/single-welt sewing can be changed over by the simple touch of a key on the operation panel.
Increased adjustable range of sewing lengths (min. 18mm to max. 220mm)



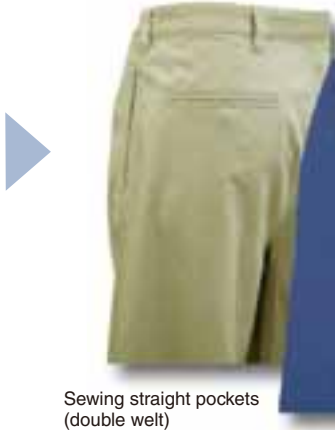
*The picture shows the APW-896N.



Sewing pockets with flaps



*The picture shows the APW-896N.



Sewing straight pockets
(double welt)



Sewing straight pockets
(single welt)

APW-896N



In addition to the APW-895N's functions, the APW-896N supports the sewing of slanted pockets (for sewing slanted flaps).
The world's first computer-controlled sidewise cutting position of the corner knives enables easy adjustments of the knives simply by operating the panel.



The sewing of slanted pockets
(sewing slanted flaps)

JUKI ECO PRODUCTS

The APW-896N Series are an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.



●The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

For details of JUKI ECO PRODUCTS, refer to: http://www.juki.co.jp/eco_e/index.html

*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment.
The Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.

Functions common to both the APW-895N and APW-896N

Time required for setup changing is substantially shortened

- The machine is equipped with a simple gauge changing mechanism which enables the changing and adjustment of the position of the hook driving shaft saddle from the top of the bed without tilting the machine head. The time required to change a needle gauge is less than a half of that required by conventional machines.
- The position of the folding plate and needle does not change even when double-/single-welt sewing is changed over. This means that the folding plate does not need any adjustment.
- The machine is provided as standard with a micro-adjusting function for adjusting the clamp foot position. This enables both accurate and quick adjustments of the welting width.

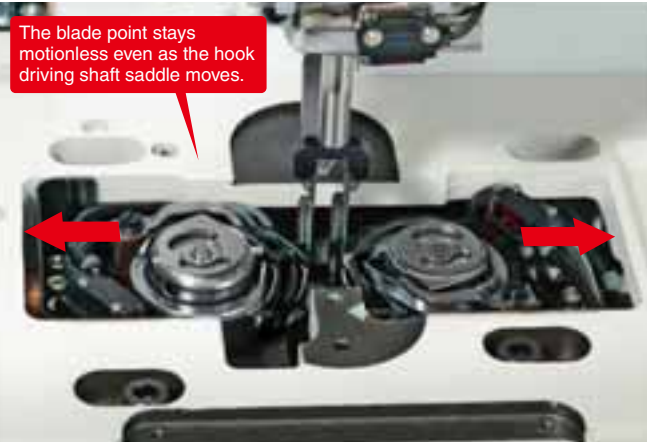


Image of adjusting the hook driving shaft saddle
*The picture shows the APW-896N.

Highly-visible and easy-to-use large color LCD touch-panel (IP-420)

The graphic display and touch panel on the large color LCD help dramatically increase ease of use. Basic operations are carried out with the graphic screen and pictogram buttons. Guidance messages are given in your selected language.

External mediuma

Now the USB-ready main body of the sewing machine uses many different kinds of media.

The memory storage capability of the main body of the sewing machine has been dramatically enhanced. Now the USB-ready main body of the sewing machine uses many different kinds of media. In addition to the Compact Flash card, the main body of the sewing machine is provided as standard with a USB connector. Now, data can be input/output to/from various kinds of media (SD (Secure Digital Card), CF (Compact Flash), SM (Smart Media) etc.) by means of a USB thumb device and a card reader.

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Increased sharpness of the center knife

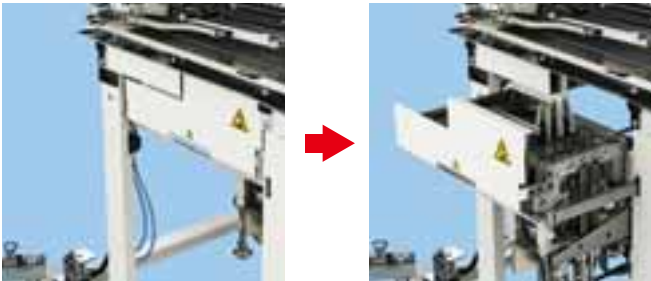
An independently driven (speed can be changed) stepping motor is adopted for the center knife. The center knife therefore remains unaffected by the sewing speed and cuts more sharply and cleanly. In addition, the knife shape is improved to prevent bending and demonstrates increased sharpness when an elastic material is being sewn.



*The picture shows the APW-896N.

The corner knives are easily adjustable

The corner knives, which can be drawn out in the entire knife unit is adopted. The knives are easily adjusted and can also be changed with ease. The slim corner knife cover helps reduce material thrusting, thereby achieving material cutting with accuracy.



*The picture shows the APW-896N.

Newly developed stacker which is able to handle small articles

Two kinds of stackers are available; i.e., clamp bar stacker (SP-46N) and roller stacker (SP-47N). With the stacker, the machine is able to handle materials with a shortest distance of 250 mm from its edge to the pocket. A stacking sensor is also provided as standard to prevent stacking errors.



SP-47N: Roller stacker



SP-46N: Clamp bar stacker

OPTION

Shim device: SA-118NS

The device feeds a highly-frictional garment body (material fabric) sandwiched vertically between the clamp foot and shim.



*The picture shows the APW-896N.

Other options

Model	Description	Feature
SP-48	Grasp stacker	The general-purpose stacker has a wide range of applications, including men's wear, ladies' wear, sportswear, jumpers, etc.
SA-117N	Dart stretcher	It is capable of smoothing wrinkles in a garment body with the edges of the material fabric clamped.
SA-119N	Suction device	This suction device is intended for sewing tables with monolithic right and left parts
SA-121N	Flap pattern matching marker	When using a patterned flap, the pattern matching position can be checked with a marking lamp
SA-126	Bundle clamp* (Part No.: 40045778)	It clamps parts for items such as trousers while stacked to carry out operations. This device is to be used in combination with the roller stacker (SP-47).
SA-131N	Additional marker	It is a marking lamp that adds reference lines.
SA-134	Right angle detecting sensor	It is a sensor to detect the right-flap angle. (The automatic left-flap angle detecting function is provided as standard.)
SA-136N	Interfacing presser	It is a pneumatic type interlining presser. Place an order when using the standard table.

*Please order for the bundle clamp SA-126 and suction motor SA-127 as parts.

- Suction device: SA-119N (for sewing tables with separated right and left parts)
- Suction motor*: SA-127 (Part No.: 40045779)

The device improves the ease of the material placement by sucking the garment body. The device should be used in combination with a suction motor (SA-127).
*The SA-127 is not required if a commercially available suction motor or suction device is provided at your factory.



*The picture shows the APW-896N.

Automatic interlining feeder: SA-120N

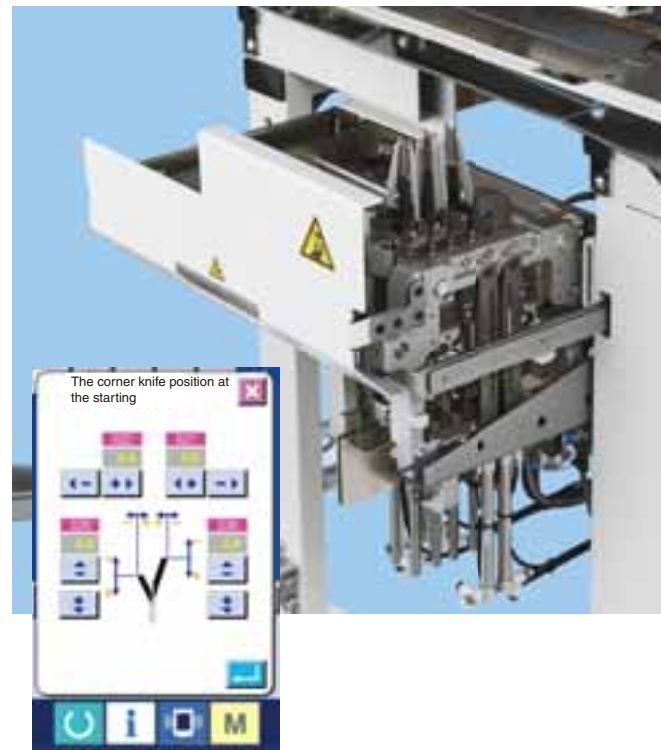
The device automatically feeds rolled interlining onto the table and cuts it. It helps reduce the time required to place the interlining, thereby increasing productivity and workability.



APW-896N

The world's first "corner-knife cutting adjustment" through the operation panel is achieved

There are many different kinds of welting patches in terms of specifications and materials. The corner knife cutting at the corner part of a welt needs fine adjustments. This can now be easily adjusted in 0.1 mm steps only through the operation panel since the corner knife comes with "computer control of the cutting position" and an "independent right- and left-blade lifting/lowering" mechanism. Fine adjustments of the amount of knife cutting to the stitch can be done both in the crosswise and lengthwise directions, not through the use of a tool, but simply by operating the operation panel. This substantially reduces the adjustment time and finishes high-quality welt.



Equal stitch-length right/left backtacking function is installed

The machine comes with an added function for equalizing the right and left backstitch length for the sewing of slanted pockets. This function helps improve the backstitch seam quality.



The machine is provided as standard with the "automatic left-flap angle detecting function"

By pressing the automatic angle detection button on the operation panel when sewing a left flap, the two sensors detect the flap angle to adjust the sewing starting (sewing end) position of the right and left needles when sewing a left flap.

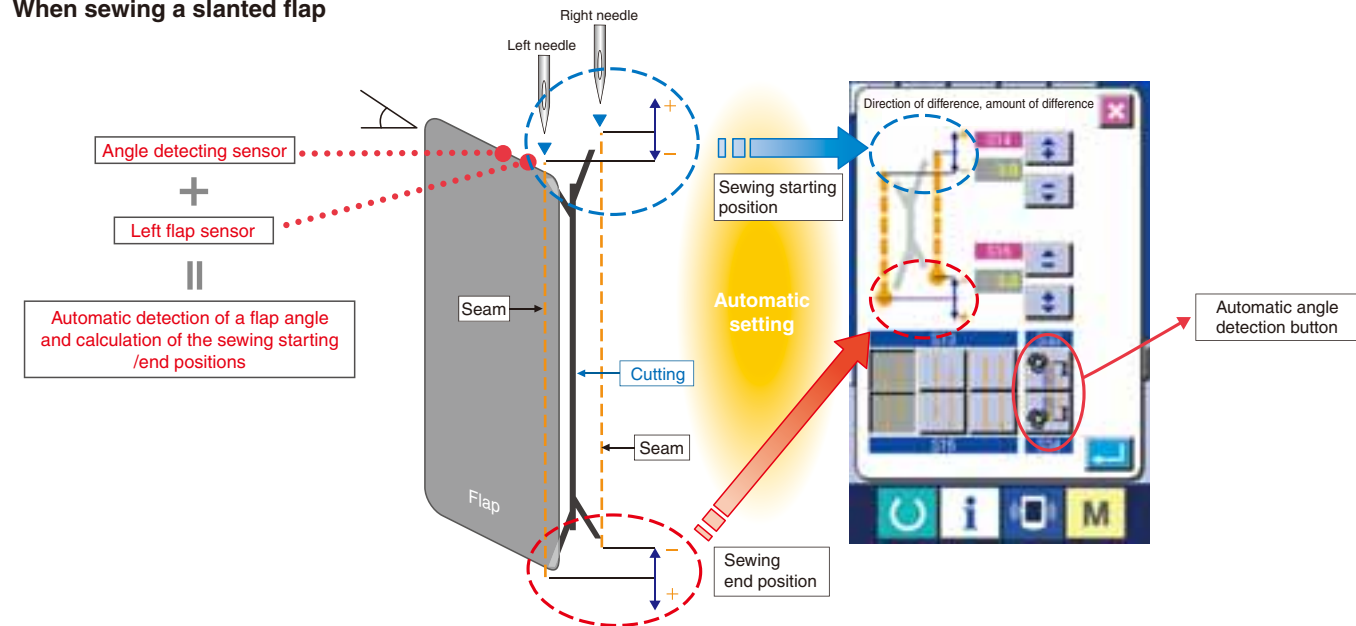
*This function is provided as standard only on left-flap sewing.

*When automatic detection finds a difference of less than 0.5 mm, parallel stitching is performed.

*For the sewing of single welt, the flap-angle detecting sensors cannot be used. Only the flap sensor can be used.

Automatic left-flap angle detecting function

When sewing a slanted flap



■ WHEN YOU PLACE ORDERS

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

[Machine head]

Model type	Code
For straight pockets with flaps	895N
For slanted pockets with flaps	896N

*Select "L"(Wide&Long) in case that the needle gauge size is more than 22mm and/or the sewing length (welt length) is more than 220mm.

Specifications	Code
Standard	S
Wide & Long (APW-895N only)	L

APW-895NS/APW-896NS

		Needle gauge - Welting patch ruler size				Code
Specification	Needle gauge	Double-welt ruler (installed on the main body)		Single-welt ruler (accessory supplied with the machine)		
		L-size	R-size	L-size	R-size	
Standard	8mm	3.3mm	3.3mm	7.3mm	7.3mm	08
	10mm	4.3mm	4.3mm	9.3mm	9.3mm	10
	12mm	5.3mm	5.3mm	11.3mm	11.3mm	12
	14mm	6.3mm	6.3mm	13.3mm	13.3mm	14
	16mm	7.3mm	7.3mm	15.3mm	15.3mm	16
	18mm	8.3mm	8.3mm	17.3mm	17.3mm	18
	20mm	9.3mm	9.3mm	19.3mm	19.3mm	20

APW-895NL

Needle gauge - Welting patch ruler size						Code
Specification	Needle gauge	Double-welt ruler (installed on the main body)		Single-welt ruler (accessory supplied with the machine)		
		L-size	R-size	L-size	R-size	
Wide & Long	22mm	10.3mm	10.3mm	21.3mm	21.3mm	22
	24mm	11.3mm	11.3mm	23.3mm	23.3mm	24
	26mm	12.3mm	12.3mm	25.3mm	25.3mm	26
	28mm	13.3mm	13.3mm	27.3mm	27.3mm	28
	30mm	14.3mm	14.3mm	29.3mm	29.3mm	30
	32mm	15.3mm	15.3mm	31.3mm	31.3mm	32

Stacker	Code
Not provided	Z
SP-46N (clamp bar stacker)	Q
SP-47N (roller stacker)	R
SP-46N + SP-47N	S

*Please order for grasp stacker SP-48 as device.

Power supply	Code
Single-phase 200~240V	K
3-phase 200~240V	D
3-phase 380V (provided with SA-128)	W

Options (When you have chosen specification type "S"(standard))										Code	Options (When you have chosen specification type "L"(Wide & Long))			Code
SA-117N* Dart stretcher	SA-118NS Shim device	SA-119N Suction device	SA-119NE Suction device	SA-120N Automatic interlining feeder	SA-121N Pattern-matching marking device	SA-131N Additional marker	SA-134 Right angle detecting sensor	SA-136N Interfacing presser	SA-141 Marking light		SA-118NL Shim device	SA-131N Additional marker	SA-141 Marking light	

APW-895NS

●		●			●		●		M3
					●		●		Q1
					●		●	●	S1

APW-896NS

●		●					●			P1
	●						●			P2
●	●					●	●			P6
						●	●			P7
	●					●	●			P9
						●	●	●		Q3
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●	●					●	●		●	R8
						●	●		●	R9
	●					●	●		●	S0
						●	●	●		S2
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●			●	●		●			●	S6

APW-895NL

—	—	—	ZZ
	●		M7
●			N0
	●	●	R5
●		●	T0
●	●	●	T1

APW-895NS/APW-896NS

—	—	—	—	—	—	—	—	—	—	ZZ
●										L0
●					●					L1
●				●						L2
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	●					●			●	R7

*The SA-117N can be used for gauge sizes of 8 mm to 12 mm.

*To order, please contact your nearest JUKI distributor.

SPECIFICATIONS

Model name	APW-895N	APW-896N
Flap type	Rectangular flap	Rectangular / Slanted flap
Sewing speed	Max. 3,000 sti/min (1,000~3,000 sti/min)*	
Kind of welts	Parallel double welt, parallel single welt (with/without flaps)	Parallel double welts, parallel single welts, slanted double welts, slanted single welts, trapezoidal sewing (with/without flaps)
Stitch length	Standard 2.5mm (2.0~3.4mm)	
Stitch length (fastening stitching)	Condensation stitching: Standard 1.0mm (0.5~1.5mm) Back-tack stitching: Standard 2.0mm (0.5~3.0mm) *Changeable between condensation / back tack stitching	
Corner-knife cutting adjusting method	Mechanical adjustment	Electronic adjustment
Needle	ORGAN DP x 17 Standard #16 (#14~#18), SCHMETZ 190R Standard #100 (#100~#110)	
Thread	SPUN #60 (recommend)	
Hook	Vertical-axis 1.7-fold capacity hook	
Number of independent sewing patterns	99 patterns (999 patterns when a CF memory card is used)	
Number of cycle sewing patterns	20 patterns	
Number of alternate sewing patterns	20 patterns	
Machine head	2-needle, lockstitch machine (LH-895)	2-needle, lockstitch machine with organized split needle bar (LH-896)
Cloth feeding system	Driven by a stepping motor	
Power requirement	Single-phasae 200~240V, 3-phase 200~380V 50Hz / 60Hz	
Power consumption	350VA	
Compressed air / Air consumption	0.5MPa, 40dm ³ /min (ANR)	
Weight	238.5kg	259.0kg
Dimensions	1,095mm(W)×1,500mm(D)×1,200mm(H) (Width 1580mm = Stacker included) (Height 1800mm = Thread stand included)	

Model name	With / Without (corner knife and center knife)	Sewing length (welt length)	Needle gauge (mm)
APW-895NS	Without	Min. 18mm~Max. 220mm (settable in increments of 0.1mm)	8, 10, 12, 14, 16, 18, 20
	With	Min. 35mm When a solenoid valve is used: Min. 21mm *For a needle gauge width of 14mm or more, the minimum sewing length is 50mm.	
APW-895NL	Without	Min. 18mm~Max. 300mm (settable in increments of 0.1mm)	22, 24, 26, 28, 30, 32
	With	Min. 50mm~Max. 250mm (settable in increments of 0.1mm)	
APW-896N	Without	Min. 18mm~Max. 220mm (settable in increments of 0.1mm)	8, 10, 12, 14, 16, 18, 20
	With	Needle gauge 12mm or less: Min. 21mm~Max. 220mm Needle gauge 14mm or more: Min. 50mm~Max. 220mm	

**sti/min" stands for "Stitches per Minute."

JUKI
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* 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 catalogue prints with environment-friendly soyink on recycle paper.



Registered Organization : JUKI CORPORATION Head Office
The Scope of the Registration : The activities of research,
development, design, sales, distribution, and maintenance
services of industrial sewing machines, household sewing
machines and industrial robots, etc., including sales and
maintenance services of data entry systems.