

JUKI®

Automatic Pocket Setter <For Jeans>

AVP-875S

AVP-875A

(With an automatic bobbin winding and feeding device AW-2)

High-performance machine that folds pockets with sharp, crisp-looking edges and sews at the high speeds needed for optimal pocket attachment to jeans.



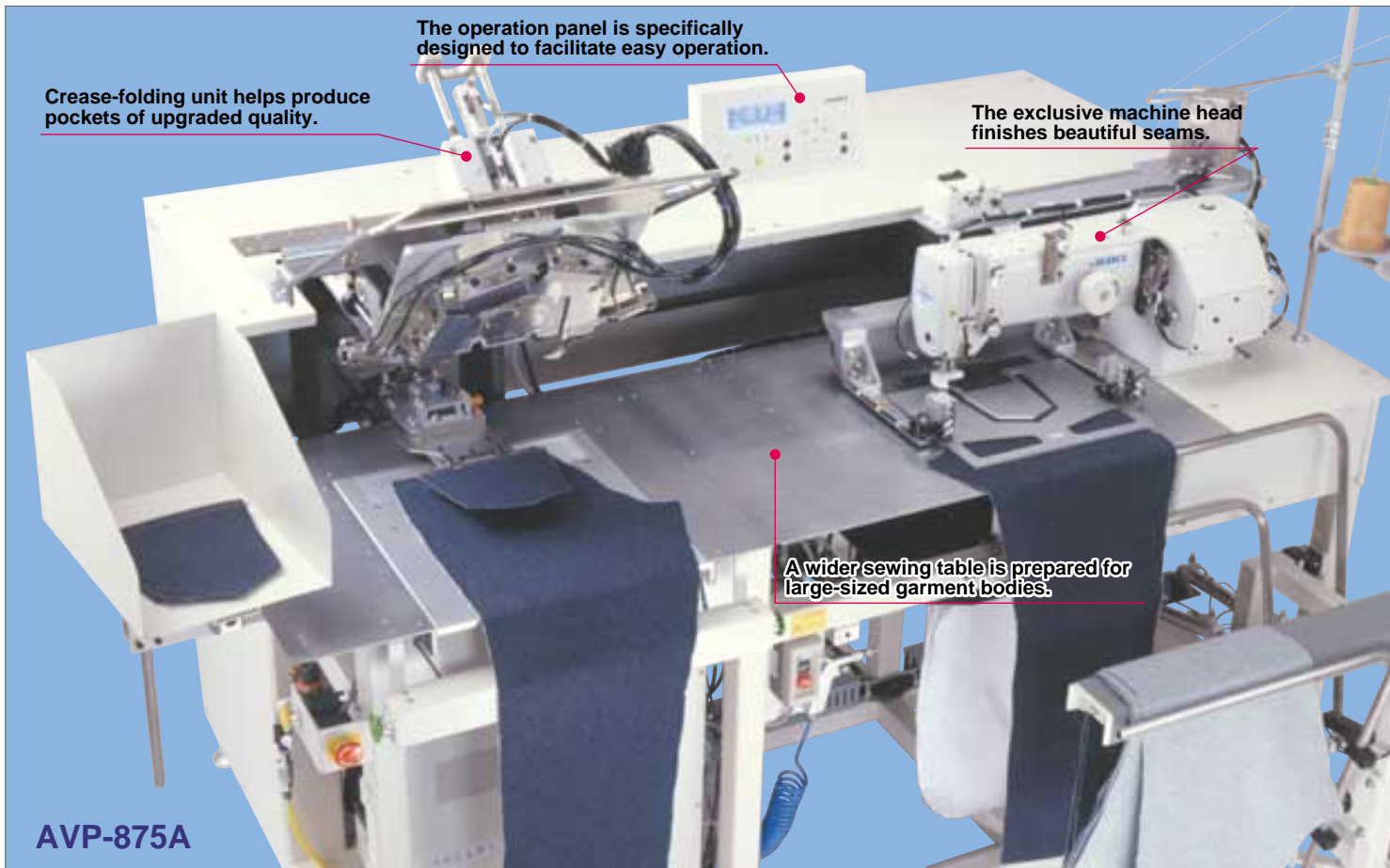
AVP-875A

AVP-875

JUKI automatic pocket setter is a highly advanced machine that automatically performs pocket setting procedures for jeans ranging from folding the hip pocket piece, setting it onto the garment body, sewing it, and stacking the finished product. The result is even more consistent quality and higher productivity.

When the machine is equipped with the optional jig for a pre-folded pocket style, pocket pieces folded in advance, upstream from the machine's standard pocket-setting functions, can be sewn onto the garment body while disabling only the pocket-piece folding function. This production style using the optional pocket style jig makes it possible to apply the machine for the production of various products in small lots at a reduced cost.

The machine can be used in two different ways, i.e., as a regular pocket setter when the production lot is large, or as a pre-folded pocket setter when the lot is small. In this way, the AVP-875 offers increased availability.



1 The machine demonstrates improved productivity.

The machine automatizes a series of pocket-setting processes, concurrently folding and sewing sequential pocket cloths in the production line, thereby resulting in substantial labor savings. With its newly developed large-hooked zigzag-stitching lockstitch machine head, the machine runs at a maximum sewing speed of 4,000rpm and executes all of its operations with split-second response. The sum result: dramatically reduced cycle time and increased productivity.

2 The machine folds pocket cloths with beautiful, sharp creases and absolutely no material slippage.

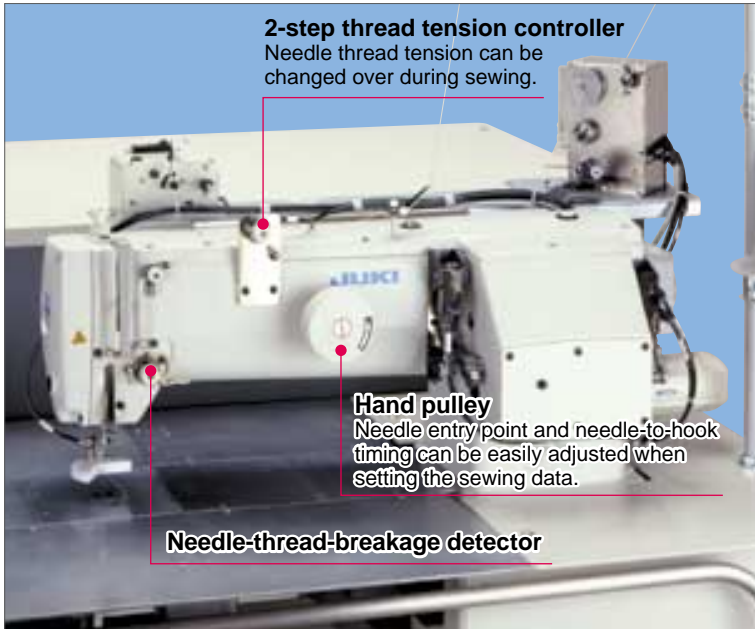
A pocket cloth is folded on the table surface and properly tensed by a pocket style jig to create sharp creases without material slippage or bulging. The pocket cloth is vertically shifted and pulled to the suitable tautness for placement on the garment body. This prevents the pocket cloth from slipping out of the correct position and makes it easy to adjust folding timing. With this pocket-folding and pocket-positioning mechanism, the machine is widely adaptable to various materials.

4 The machine achieves consistent seam quality.

The work clamp plate clamps the pocket cloth at the center of the sewing area so that the entire pocket cloth is pressed down evenly, thereby preventing the cloth from flopping. In addition, by installing JUKI's unique hook-driving-shaft offset mechanism in the machine head, the machine produces beautiful seams with consistency while preventing the stitch skipping or thread breakage that is liable to occur when the needle throws to the right and left.

5 The machine is ready for large garment bodies.

The folding unit is sufficiently spaced from the machine head. This means large garment bodies never interfere with each other even when right and left garment bodies are alternately processed on the machine. The machine widely adapts to materials of various sizes and many different sewing specifications.

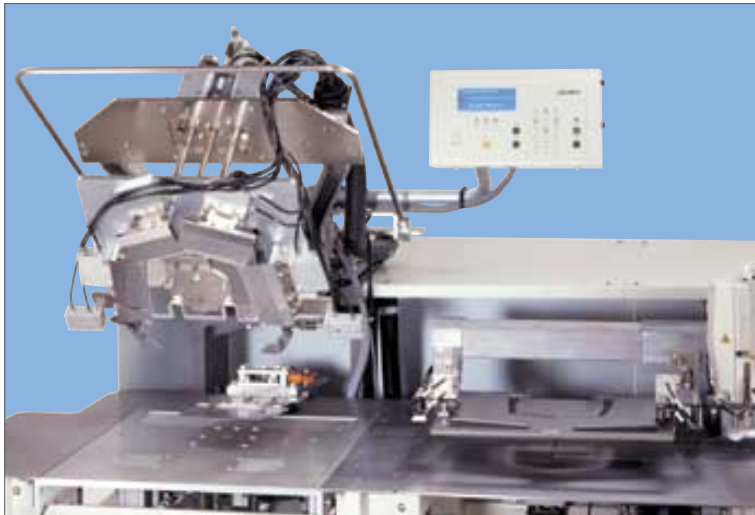


2-step thread tension controller
Needle thread tension can be changed over during sewing.

Hand pulley
Needle entry point and needle-to-hook timing can be easily adjusted when setting the sewing data.

Needle-thread-breakage detector

The large-hooked zigzag stitching lockstitch machine head runs at a maximum sewing speed of 4,000rpm and comes with JUKI's unique offset mechanism for the hook driving shaft.



Pocket style jigs can be replaced with no tools. A new pocket style jig can be installed in the machine and fully adjusted in only about five minutes.

3

The pocket style jig can be easily replaced and adjusted.

Replacing the pocket style jig, including adjustment, takes only about five minutes. The pocket style jig can be attached/removed without the use of any tools. By reducing the downtime required for pocket style jig replacement, the machine can respond more flexibly to small-lot production. The folding position after the replacement can be finely adjusted with a few easy modifications of the sewing data on the operation panel, and a series of operating procedures can be checked step by step by changing over the operation mode.

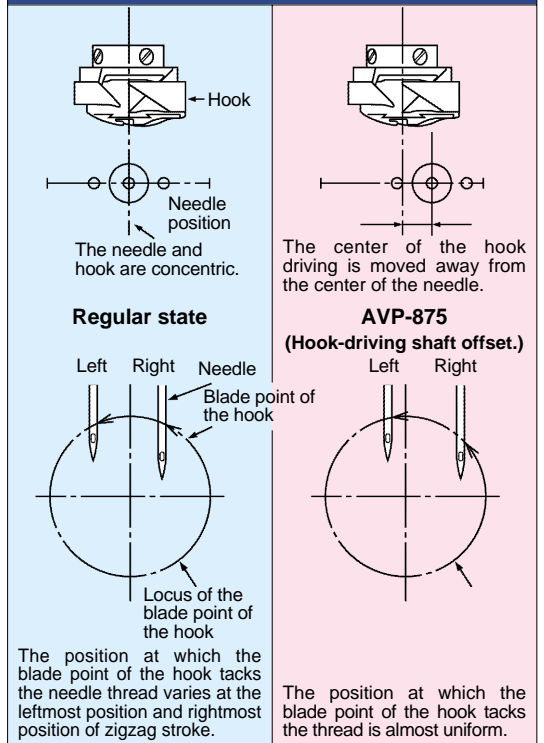
●Denim • Blade-shape bottom type



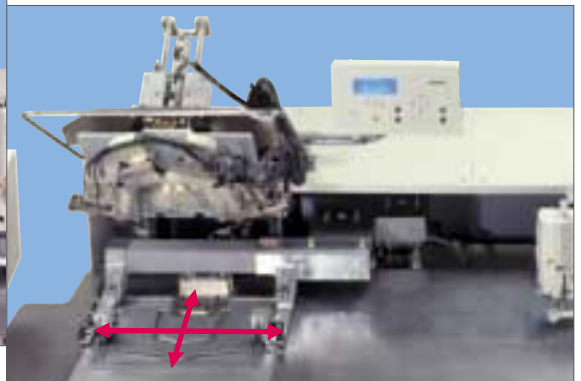
●Corduroy • Round-shape bottom type



JUKI's unique hook driving shaft offset mechanism



The blade point of the hook tucks the thread at a constant position even if the needle throws to the right and left, thereby helping reduce stitch skipping and thread breakage.



After replacing the pocket style jig, the folding position of the pocket cloth can be finely adjusted via the operation panel in a few short moments.

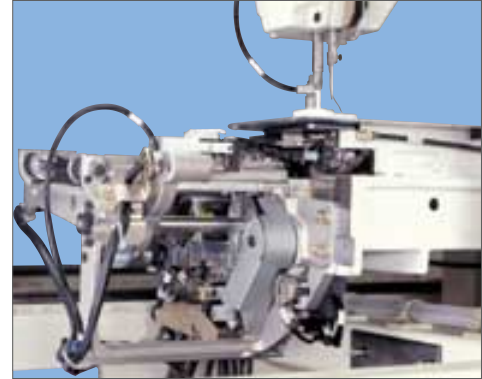


The stacker provides a capacity of 64 pieces of finished products. In addition, the stacker is equipped as standard with a stacker-capacity detector.

Automatic Bobbin Winding and Feeding Device AW-2

The world's first automatic bobbin thread winding and feeding device that fully automatizes the bobbin thread replacement procedure.

Automatic bobbin thread replacement has been a desired function since the manufacture of the very first lockstitch machines many years ago. This is the world's first automatic bobbin thread winding and feeding device that fully automatizes the bobbin thread replacement procedure. Saving the time ordinarily required for bobbin thread replacement, this device helps the pocket setter for jeans maximize its already excellent production capacity.



- Thanks to a sophisticated design pooling all of JUKI's available technologies, the automatic bobbin thread winding and feeding device (AW-2) can automatically execute all steps of bobbin replacement, including removal/installation of the bobbin, removal of the thread remaining on the bobbin, and threading of the bobbin case. There are absolutely no manual steps required to replace the bobbin - the operator is entirely free.
- Bobbin replacement by the automatic bobbin thread winding and feeding device is fully synchronized with the sewing operation of the AVP-875. With this device, the operator can operate the machine rhythmically, fully concentrating his or her attention on the sewing work. The downtime conventionally associated with bobbin replacement has been eliminated.
- The automatic bobbin thread winding and feeding device also controls the amount of thread remaining on the bobbin during replacement to eliminate thread waste.
- When the AVP-875 is equipped with the AW-2, the AW-2 increases production capacity by as much as 10%.
(Note: Increases in productivity with the AVP-875 vary with the operating conditions.)



AVP-875A

Productivity is increased

A trial calculation of productivity

<Trial calculation conditions>

Thread: Span #20

Bobbin thread consumption: 1.2 m/pocket

Time required to manually replace the bobbin: 25 sec/case

Cycle time: 10.5 sec/pocket

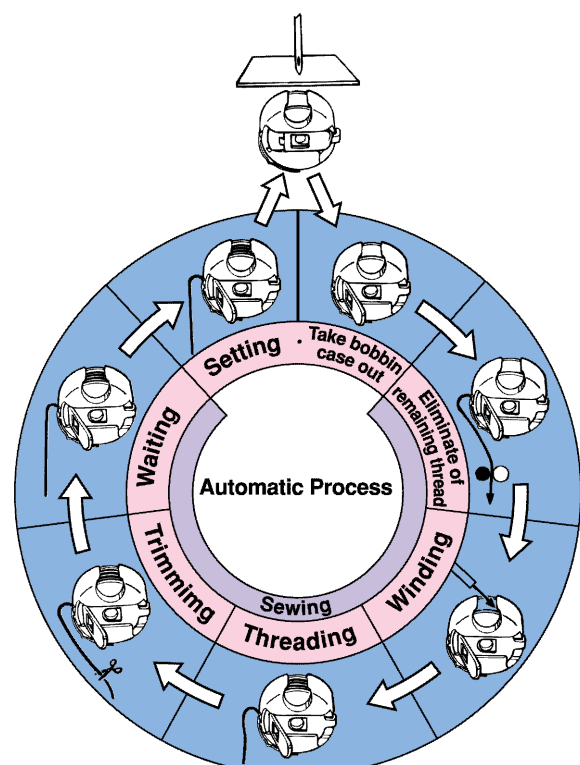
Allowance rate (excluding bobbin replacement): 15 %

	AVP-875A	AVP-875S
Time lost due to causes other than bobbin replacement	3,946 seconds in 8 hours	3,775 seconds in 8 hours
Time lost due to bobbin replacement	0 seconds in 8 hours	2,664 seconds in 8 hours
Total time lost in one day (allowance rate)	3,946 seconds in 8 hours (16 %)	6,421 seconds in 8 hours (29 %)
Daily production (8-hour operation)	2,367 pockets	2,131 pockets
Effect of introduction of AW-2	Production: Increase by 236 pockets in 8 hours (11 % increase) Time lost: Reduced by 2,475 seconds in 8 hours (39 % reduction) Allowance rate: 13 % decrease	

* The time lost for the AVP-875 includes the time required to operate the AW-2 (189 seconds in 8 hours).

* Daily production and effect of introduction of the AW-2 vary with sewing conditions.

Automatic bobbin winding and feeding cycle



Replacement parts for pocket style jig



Creasing gauge



Presser plate



Form plate

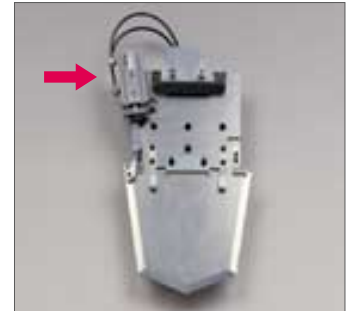


Label-inserting device (optional)

A label can be inserted either into the right- or left-hand side of a pocket cloth. A cylinder-type label-inserting device that can be directly mounted on the pattern board is also available. When placing an order for a pocket style jig, specify a label-inserting device, if necessary.



Folded of the pocket and label



Label-inserting device

Pre-folded pocket style (Optional)

[Clamp designed specifically for pre-folded pockets]

Part No.:
Clamp frame (asm.) ————— **G6132-875-0A0**
Clamp upper plate blank (asm.) — **G6133-875-0A0**
 (Clamp upper plate/lower plate, combined)
Magnet mounting plate (asm.) — **G6131-875-0A0**
 (Magnet for retaining the upper plate)

- This is a pocket style jig to be used exclusively for sewing pocket pieces onto the garment body after they have been folded in a separate process.
- The pre-folded pocket style jig consists of three components, i.e., the "clamp frame," "clamp upper plate" and "clamp lower plate." Changes in pocket size and design are accommodated by replacing the clamp upper plate and lower plate with appropriate ones. The clamp upper plate and lower plate are less expensive than the conventional pocket style jigs. The use of the pre-folded pocket jig in highly flexible small-lot production reduces the running costs of the AVP-875.
- The clamp upper plate and lower plate can be attached and removed to and from the clamp frame quickly and easily.
- Even when using the pre-folded pocket style jig, the machine can sew at speeds as high as 4,000rpm, dramatically boosting productivity.
- The folding mechanism of the pocket setter does not support a trapezoidal-design pocket. With the pre-folded pocket style jig, however, this type of pocket piece can be sewn onto a garment body if it has been folded into a trapezoidal shape in advance.



■ **Set the folded pocket piece on the pre-folded pocket jig.**

* When the magnet for the retaining upper plate is used with the jig, you can set a pocket on the jig using both hands.



Clamp frame (asm.)



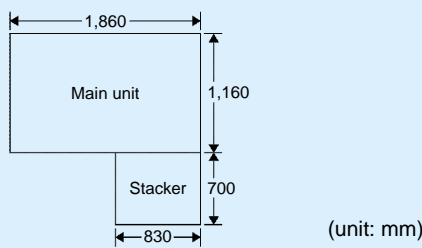
Clamp upper plate (machined)



Clamp lower plate (machined)

* If you want to use a pre-folded pocket style jig with your AVP-875, you may have to change the system ROM of the main AVP unit. When placing an order for a pre-folded pocket style jig, please confirm with the distributor in your area whether you will need to replace the system ROM.

SPECIFICATIONS

Model name	AVP-875S	AVP-875A
Machine head	High-speed, 1-needle, lockstitch, zigzag stitching machine (exclusive machine head)	
Max. sewing speed	4,000rpm	
Sewing area	250mm (L) x 240mm (W)	
Stitch length	0.1 ~ 6.0mm	
Needle bar stroke	35mm	
Needle (at the time of delivery)	SCHMETZ 134SES SERV7 (Nm130)	
Hook	Horizontal-axis full-rotary hook	
Automatic bobbin winding and feed device (AW-2)	-	* Provided as standard
Size of bobbin and bobbin case	1.7 fold	1.4 fold (specifically designed for the AW-2)
Bobbin thread replacement	Manual	Automatic (AW-2)
Needle thread breakage detection	Provided as standard	
Stacking capacity	Max. 64 pieces of jeans bodies	
Number of patterns that can be stored in memory	Max. 691 pattern	
Memory medium	2DD/2HD 3.5" micro-floppy disk	
Feeding method	AC servomotor, X-Y clamp drive	
Lubrication	Automatic (machine head)	
Lubricating oil	JUKI New Defrix Oil No.1 (equivalent to ISO VG7)	
Power requirement	Single-phase 200 ~ 240V, 3-phase 200V, 200 ~ 240V, 380 ~ 440V	
Power consumption	600VA	
Compressed air	0.5MPa (5.0kgf/cm ²)	
Air consumption	120Nℓ/min	220Nℓ/min (max.)
Total weight	600kg	
Dimensions		

* The automatic bobbin thread winding and feeding device (AW-2) cannot be mounted on the AVP-875S after setup.

OPTIONS

Handy programming device PGM-6

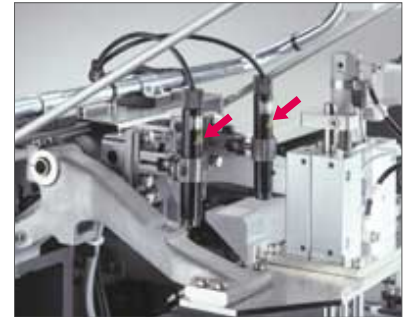
If the handy programming device is connected to the main unit of the pocket setter, sewing data can be established and modified.



Marking light

(Part number: G9001-875-0A0)

The marking light helps you easily position a pocket and garment body on the machine.



Garment put base

(Part number: G9011-875-0B0)

When mounted on the main unit, the garment put base is quite helpful of sewing either right or left garment bodies in succession.

WHEN YOU PLACE ORDERS

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

AVP-875 S

Type	Code
Standard	S
With AW-2	A

Power supply		Code
Single-phase	200 ~ 240V	E
	200 ~ 240V	P
3-phase	380 ~ 440V	N
	200V for CE	M

Pocket style jig				
Configuration	Code	Kind	Label-inserting device	Code
Not used	Z	999	Not provided	Z
Round-bottom type	A	001 ~ 998 for each configuration	Not provided : Z Provided : A	
Blade-shape bottom type	B			
Trapezoidal-bottom type	C			
Bilge-shaped-bottom type	D			
Square-bottom type	E			
Others	X			

Option		
Garment put base	Marking light	Code
Not provided	Not provided	Z
Provided	Not provided	A
Not provided	Provided	B
Provided	Provided	C

● To order, please contact your nearest JUKI distributor.

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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.