

JUKI®

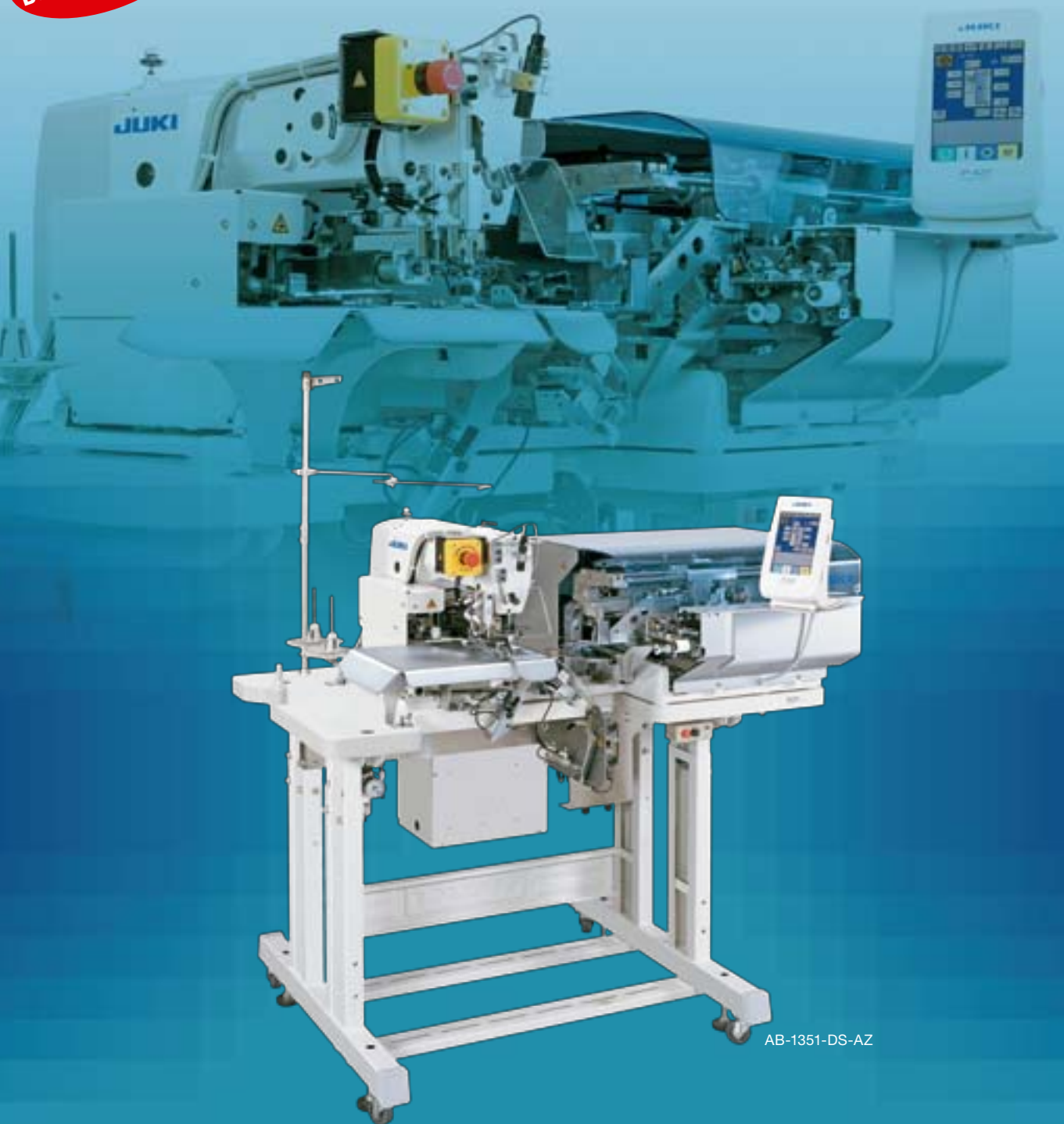


AB-1351

Automatic 1-needle Belt-Loop Attaching Machine

**7 PATTERNS
BY ONE MACHINE!**

AB-1351 is **the world's first** belt-loop attaching machine with the ability to solely sew seven different belt-loop sewing patterns!



AB-1351-DS-AZ

Automatic 1-needle Belt-Loop Attaching Machine

AB-1351

Options

● LOOP DRAWER DEVICE (400-94294)



It is the LOOP DRAWER DEVICE which helps the belt-loop feeder unit of the main body feed belt-loops. The loop drawer device pulls out, beforehand, the belt-loop to be sewn next. This prevents belt-loop length variation when using belt-loops made of elastic material. In addition, it detects any faulty feeding resulting from belt-loop entangling.

● PEDAL SWITCH [400-90639]

It is a foot-control pedal unit. The presser foot can be lifted and lowered by the foot pedal. This improves accuracy and ease of garment-body placement. The presser foot can be lifted and lowered by the foot pedal. This improves accuracy and ease of garment-body placement. Junction cord (part No.: 400-73659) is required.

● Third bartacking cancellation switch [Part No.: 400-97205]

This switch is used, for sewing patterns No. 4,5 and No. 7 to cancel the third bartacking in the case where a belt-loop cannot be attached onto a material which is too thick to sew, such as the back top center of trousers.

● LED MARKING LIGHT [400-90637]

This is the marking light to be retrofitted on the machine. Generally, one marking light, which has been provided as standard, and the "cloth guide" are used to place a garment-body on the sewing machine. However, additional marking lights can be retrofitted in the case of sewing belt-loops on a garment-body with reference to the back center or a dart. (A total of three marking lights can be retrofitted.)

● Gauge for zigzag bartacking

WORK CLAMP FOOT -B [400-66686], FEED PLATE-B[400-66744]
These parts are required to carry out zigzag bartacking.

● Narrow work clamp for linear bartacking

WORK CLAMP FOOT (NARROW) [400-91157]
This part is suitable for sewing belt-loop width of which is up to 14mm.

Specifications

Model name	AB-1351	
Machine head	LK-1961/ABH (Exclusive machine head based on the LK-1900A, Semi-dry-head)	
Max. sewing speed	2,500sti/min*	
Lift of the work clamp foot	Max.14mm	
Hook	Standard shuttle hook	
Stored bartacking patterns (Stitches)	Linear bartacking (12, 15, 21, 28, 36, 41) / Zigzag bartacking (28, 36, 42)	
Bartacking size	length-wise	0~3.2mm (0"-1/8") (adjustable in increments of 0.1mm)
	cross-wise	6~23mm (15/16"-57/64") (adjustable in increments of 0.1mm)
Number of bartacking patterns that can be input	200 patterns, Max. 20,000 stitches in total patterns	
Number of belt-Loop sewing patterns	99 patterns	
Number of cycle sewing patterns	Number of programs: 20 (30 different patterns can be set within one program.)	
Needle	DP x 17 #14, 135 x 17 #90	
Thread	Spun 80Nm (recommend), Filament 80Nm (80Nm=#50)	
Belt-loop width	8~20mm (5/16"~25/32")	
Power requirement / Power consumption	Single-phase 220~240V / 280VA, 3-phase 200~220V / 250VA	
Compressed air and air consumption	0.5MPa (5kg/cm ²), 10NI/min	
Total weight	205.5 kg	
Dimensions	1,200(W) x 850(D) x 1,210mm(H)	
Height of the top face of the throat plate	Minimum: 930 mm (from the floor surface)	
Needle thread breakage detecting device	Provided as standard	
Belt-loop multi-layered part detecting device	Provided as standard	

*sti/min stands for Stitches per Minute.

When You Place Orders

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

Table	Code	Options	Code
Sub-table (provided as standard)	S	Not provided	Z
		Pedal switch	A

Power supply	Code	Device	Code
Single-phase 220~240V	K	Not provided	Z
3-phase 200~220V	D	Loop drawer	A
Single-phase 220~240V (for CE)	N		

*For code "D," the machine is adaptable to single-phase 100V power supply by changing over the tap.

JUKI ECO PRODUCTS



The AB-1351 is 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.



JUKI CORPORATION HEAD OFFICE
An environmental management system to promote and conduct the following:
(1) Eco-friendly development of products and technologies
(2) Green procurement and green purchasing
(3) Energy conservation (reduction in carbon-dioxide emissions)
(4) Resource saving (reduction of papers purchased, etc.)
(5) Reduction and recycling of waste in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.

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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.

**7 PATTERNS
BY ONE MACHINE!**

AB-1351 is **the world's first** belt-loop attaching machine with the ability to solely sew seven different belt-loop sewing patterns!

Automatic 1-needle Belt-Loop Attaching Machine

AB-1351

The machine can be used for attaching diversified belt-loop styles!
JUKI's unique flexible automatic belt-loop attaching machine!

Improved productivity

This machine not only reduces the time required for the belt-loop attaching process, but also achieves labor-saving, such as the elimination of the previous process (belt-loop cutting). Productivity can be dramatically increased when one operator attends to two AB-1351 units.

Quality production without relying on operator skill

This machine allows an inexperienced operator to sew various types of belt-loops. The operator only needs to place a garment body on the machine and press the switch. The belt-loop sewing shape and sewing size can be easily changed through the operation panel.

Quality improvement

JUKI's unique belt-loop feeding/folding mechanism helps achieve beautifully-attached consistent-quality belt-loops with constant sewing dimensions (amount of slack).

Productivity is dramatically increased when the operator attends to two AB-1351 units.

Two AB-1351 units can be operated by only one operator. In the case where two AB-1351 units are placed, as shown in the picture, the operator is able to operate them alternately to attach belt-loops on two different garment bodies, thereby substantially increasing productivity.

AB-1351 / Productivity	One operator attends to one AB-1351 unit.	One operator attends to two AB-1351 units.
Number of belt-loops	4,114	7,542
Number of products to be produced	685	1,257

Sewing condition: (for 8 hours with an allowance of 20%)
Belt-loop sewing pattern No. 4; number of first bartacking stitches: 12; number of second bartacking stitches: 21; number of third bartacking stitches: 12; number of belt-loops per garment-body: 6

Belt-loop folding mechanism which supports various belt-loop specifications (patent pending)

This is the world's first automatic belt-loop attaching machine which can be used for seven different belt-loop attaching processes. The main mechanisms have been computerized to develop a belt-loop attaching machine which sews diversified belt-loop styles.

JUKI's unique belt-loop feeder unit



The belt-loop feeder unit incorporates JUKI's unique twin system. It is able to feed belt-loops with consistency even when a soft and elastic material is used. The belt-loop feeder unit is arranged in front of the main body of the sewing machine. This allows the operator to insert belt-loops from the front of the machine. In addition, the operator can visually check the belt-loop state whenever necessary, even during sewing.

Belt-loop size adjustment and belt-loop specification changing have been digitalized.



The AB-1351 has adopted, as its operation panel, the IP-420 which has a large color liquid crystal touch panel. With this operation panel, the operator can change the belt-loop shape or sewing pattern, set the belt-loop sewing position and carry out cycle sewing. Digitalization helps substantially reduce the time required for sewing data adjustment.

The machine can be used for two different sewing styles by installing / removing the sub-tables.

● Sewing belt-loops on waistbands ● Sewing belt-loops on garment bodies



The sewing machine can be used for two different sewing styles, i.e., for sewing belt-loops on waistbands (flat sewing) and for sewing belt-loops on garment bodies (tubular sewing), by installing / removing the sub-tables (auxiliary table and waistband table). The position of the start switch can also be changed. (The machine is provided with sub-tables as standard accessories.)

Seven different sewing patterns

*To carry out zigzag bartacking with the AB-1351, a gauge for zigzag bartacking (option) is required.

Pattern No.	Diagram	Linear bartacking	Zigzag bartacking
No.1		A: 4mm, B: 59~99mm	6mm, 59~99mm
No.2		A: 4mm, B: 15~30mm, C: 45~99mm	6mm, 15~30mm, 45~99mm
No.3		A: 4mm, B: 45~109mm, C: 5~11mm, D: (2)mm	6mm, 45~109mm, 5~11mm, (2)mm
No.4		A: 4mm, B: 30~50mm, C: 5~11mm, D: 5~30mm, E: 6mm	6mm, 30~50mm, 5~11mm, 5~30mm, 8mm
No.5		A: 4mm, B: 30~61mm, C: 5~11mm, D: 2~8mm, E: 2.5mm, F: 10mm	6mm, 30~61mm, 5~11mm, 2~8mm, 4mm, 10mm
No.6		A: 4mm, B: 45~99mm, C: 15~30mm, D: 2.5mm	6mm, 45~99mm, 15~30mm, 4mm
No.7		A: 10mm, B: 30~60mm, D: 4mm, E: 4mm, F: 10mm	10mm, 30~60mm, 3mm, 3mm, 10mm

※Belt-loop length : Max. 130mm

*The belt-loop is actually finished without being folded, as illustrated. D is a reference value.

Finally-finished dimensions: G=40~66mm
※Belt-loop length : 58~130mm

Finally-finished dimensions: G=34.5~68.5mm

※Belt-loop length : Max. 130mm

Finally-finished dimensions: G=36~66mm

Finished shapes of major belt loops for each sewing pattern

Pattern No.	Waistband	Body
No.1	1st Linear BT/AB, 2nd Zigzag BT, 3rd Zigzag BT	3rd Zigzag BT
No.2	1st Linear BT/AB, 2nd Linear BT/AB, 3rd Linear BT	3rd Linear BT
No.3	1st Linear BT/AB, 2nd Linear BT/AB, 3rd Linear BT, 4th Linear BT	3rd Linear BT, 4th Linear BT
No.4	1st Linear BT/AB, 2nd Linear BT/AB, 3rd Linear BT/AB, 4th Linear BT	3rd Linear BT/AB, 4th Linear BT
No.5	1st Linear BT/AB, 2nd Linear BT/AB, 3rd Linear BT/AB	3rd Linear BT/AB
No.6	1st Linear BT/AB, 2nd Linear BT/AB, 3rd Zigzag BT/AB, 4th Zigzag BT	3rd Zigzag BT/AB, 4th Zigzag BT
No.7	1st Zigzag BT/AB, 2nd Zigzag BT/AB	1st Zigzag BT/AB, 2nd Zigzag BT/AB

Note ; BT : Bartacking , Red numbers : Sewing by AB-1351 , Black numbers : Sewing by Another machine