

AB-1351

Automatic 1-needle Belt-Loop Attaching Machine



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— The number of belt-loop patterns has been increased to 12 —



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Automatic 1-needle Belt-Loop Attaching Machine

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).

the operator attends to two AB-1351 units.

different garment bodies, thereby substantially increasing productivity

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. When the belt-loop width is changed, the bartacking width can be automatically changed according to the percentage of change of the belt-loop width.Digitalization helps substantially reduce the time required for sewing data adjustment.

Productivity is dramatically increased when

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

AB-1351 / Productivity One operator attends to **one** AB-1351 unit. One operator attend to **two** AB-1351 unit. Number of products to be produced 685

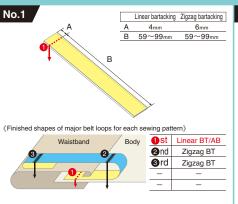
The sewing machine can be used for two different sewing styles, i.e., for sewing belt-loops on waistbands (flat sewing) and for sewing belt-loops on garment bodies (tubular sewing), by installing / removing the sub-tables (auxiliary table and waistband table). The position of the start switch can also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

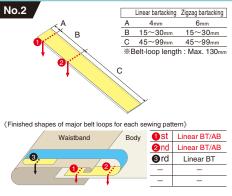
The machine can be used for two different sewing styles

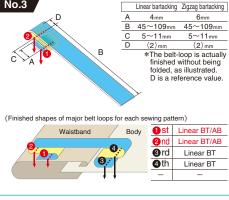
by installing / removing the sub-tables.

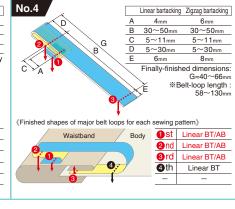
Sewing belt-loops on waistbands

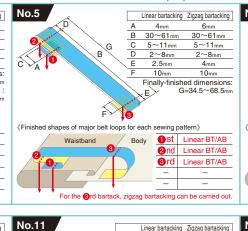
12 different sewing patterns



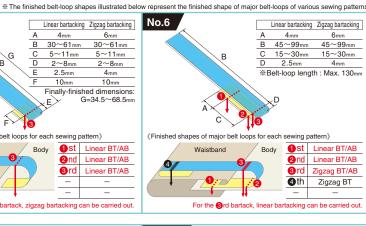


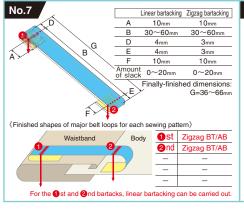


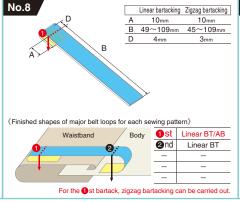


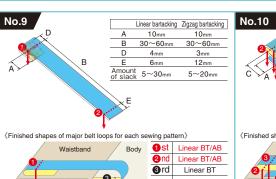


●Sewing belt-loops on garment bodies

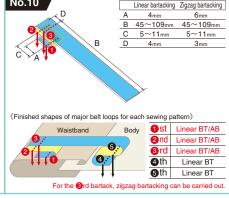


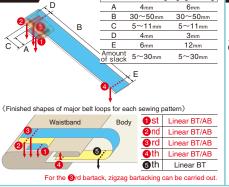


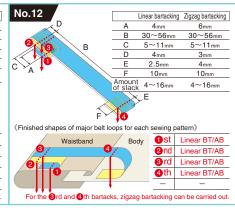




For the 1st bartack, zigzag bartacking can be carried out.







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.

• 2-PEDAL SWITCH [401-11910]

The front and rear garment pressers can be separately moved up and

■ Lower bartacking cancellation switch [400-97205]

This switch is used, for sewing patterns No. 4, 5, 7, 9, 11 and No. 12 to cancel lower 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.

MARKING LIGHT

LED MARKING LIGHT ASM.(Cross-hairs in green) [401-11891] LASER MARKING LIGHT ASM. (130mm, Straight lines in red) [401-11906]

(300mm, Straight lines in red) [401-11907]
This is the marking light to be retrofitted on the machine. Generally, one led marking light (cross-hairs in green), 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.)

AIRGUN ASM. [401-11887]

• FEED PLATE-C [400-93451]

Drop-in type feed plate. (It does not support the work clamp foot B)

Narrow gauge for zigzag bartacking

WORK CLAMP FOOT -BN [400-91156], FEED PLATE-BN [400-75975]

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.

Needle Plate ASM. N [400-91154]

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 (Stittches)		Linear bartacking (12, 15, 21, 28, 36, 41) / Zigzag bartacking (28, 36, 42, 56, 64)	
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		Max. 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 × 17 #14, 135 × 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/cm²), 10NI/min	
Total weight		205.5 kg	
Dimensions		1,200(W) × 850(D) × 1,210mm(H)	
Height of the top face of the th	roat plate	Minimum: 930 mm (from the floor surface)	
Needle thread breakage detecting device		Provided as standard (Sewing can be re-started in the case of thread breakage.)	
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	Α
AB135	1 🗆	S	
Power supply	Code	Device	Code
Power supply Single-phase 220~240V		Device Not provided	Code Z
	Code		

^{*}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

JUNI CURPORATION THEAD OFFICE

Juli Corporation operates an environmental management system
to promote and conduct the following as the company engages is
the research, development, design, sales, distribution, an
machines, industrial robots, etc., and in the provision of sales an
maintenance services for data entity systems:

(1) The development of products and engineering processes
that are sale to the environment of the provision of sales an
maintenance services for data entity systems:

(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
(6) Improvement of logistics efficiency (modal shift and
improvement of packaging, packing, etc.)



PHONE: (81) 42-357-2254 JUKI CORPORATION

FAX: (81) 42-357-2274 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 catalogue prints with environment-friendly soyink on recycle paper.

SEWING MACHINERY BUSINESS UNIT