

PLC-1690 (With a vertical-axis 1.6-fold capacity hook)

PLC-1691 (With a vertical-axis standard hook)

1-needle, High Post-bed, Unison Feed, Lockstitch Machine



PLC-1691



The high post-bed machine is best-suited to the 3-dimensional sewing of bags, etc. The sharp-curve sewing PLC-1691 (with a vertical-axis standard hook) is also introduced.

1 Thanks to its high post-bed, the machine can flexibly respond to difficult processes.

The newly developed high post-bed machine has a post with a compact-finished top to support difficult sewing processes that conventional machines can't handle such as bottom sewing or gore sewing. The distance from the needle entry to the right end of the bed, the most important design feature of the machine, is as short as 2.8 mm. The PLC-1690 comes in two different types: one with a "flat-surface type (S)" and another with a "curved-surface type (A)." You can select the type that best fits your needs.

2 The PLC-1691 offers an improved sharp-curve sewing ability.

The PLC-1691 is provided with a vertical-axis standard hook and the top end of its post is minimized in size. With its outstanding sharp-curve sewing capability and operability, the machine is ready to sew diversely designed articles such as bags with narrow gores.

3 Full-featured basic performance.

The machine is designed to handle the basic processes required for the sewing of bags. With the new increase in the alternating vertical movement of the walking foot and presser foot to a maximum of 7mm, the machine can now handle sewing materials with many multi-layered portions. In addition, the lift of the presser foot is large* enough to allow the operator to easily set and remove sewing materials on the machine.

* PLC-1690S: 15mm PLC-1690A, PLC-1691: 10.5mm

4 The machine head structure delivers upgraded operability.

A bobbin winder is mounted on the front surface of the machine arm. Stitch length can be adjusted with the stitch dial. In addition, the large-sized handwheel ($\phi 175$) can be easily turned by the operator when performing one-stitch sewing.



PLC-1690



PLC-1690A

(Throat plate: Curved-surface type)



PLC-1691

■ Specifications

Model name	PLC-1690S (Throat plate: Flat-surface type)	PLC-1690A (Throat plate: Curved-surface type)	PLC-1691
Max. sewing speed	1,600sti/min*		
Max. stitch length	6mm (Normal/Reverse feed)		
Needle bar stroke	38mm		36mm
Lift of the presser foot	By knee: 15mm By hand: 10mm	By knee: 10.5mm By hand: 5.5mm	
Post height	420mm		424.5mm
Post position	Left		
Thread take-up	Slide type		
Alternating vertical movement	2 ~ 7mm		
Hook	Vertical-axis 1.6-fold capacity hook		Vertical-axis standard hook
Needle	SCHMETZ 134X35R Nm100~Nm140 (Standard Nm120)		
Thread	#30 ~ #8 (Japanese yarn count)		
Safety device for hook	Provided as standard		
Bobbin winder	Built on the machine arm		
Lubrication	By an oiler		
Weight of the machine head	57kg		

* "sti/min" stands for "Stiches per Minute"

■ When you place orders

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

PLC-1690 <input type="checkbox"/> <input type="checkbox"/>		PLC-1691 <input type="checkbox"/> <input type="checkbox"/>	
Throat plate	Code	Pneumatic auto-lifter	Code
Flat-surface type (standard)	S	Not provided	<input type="checkbox"/>
Curved-surface type	A	Knee switch type (AK-131A)	A
		Pedal switch type (AK-146B)	B



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.

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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.