

Specifications

Item	Model	PLK-J10050	PLK-J10050R	PLK-J10050R3	PLK-J10050RH
Stitching style	Single-needle lockstitch				
Hook	Double-size shuttle	Double-size rotary	3-fold size rotary	6-fold rotary for heavy	
Needle	DPx17 #18	DPx17 #21	DPx17 #21	DDx1 #26	
Sewing area (X x Y) (mm)	1000 x 500				
Max. speed (Note 1) (rpm)	M3 motion: 2000	M3 motion: 2500	M3 motion: 2500	M3 motion: 1000	
Feeding system	M3 motion : Intermittent and/or continuous				
Stitch length (mm)	0.1 to 20.0 (min. resolution 0.1)				
Max. stitches	20 000 stitches/pattern				
Max. patterns (Note 2)	9 000				
Memory medium	USB flash memory				
Axis control	7 axis : Head & Hook & presser foot & thread tension & trimmer & X & Y				
Upper shaft motor	Mitsubishi Electric 750W direct servo motor				
Lower shaft motor	Mitsubishi Electric 400W direct servo motor				
Work holder	Jig-eject system				
Needle bar stroke (mm)	41	40	42	51	
Thread take up lever stroke (mm)	68	73	2 positions : 77 & 74		100
Presser foot drive	Direct drive by stepping motor				
Presser foot lift stroke	Max. 24.0 (step: 0.1)			Max. 30.0 (step: 0.1)	
Presser foot stroke	Digital adjustment stroke: 0.0 to 10.0				
Upper thread tensioner	Manual or digital switchover method				
	Input data save function provided				
	Stitching direction-compatible automatic adjustment function provided				
Trim knife type	Horizontal type by stepping motor				
Oil lubrication	Spray method: Spray time adjustment				
Operation panel	6.5-inch color LCD touch panel with USB port				
External device Input / Output	Total: 27 NPN + 2 Analogic (Free : 21 NPN / 2 Analogic)				
Interface	Ethernet (Note 3) (CC-Link IE Field Basic compatible), USB communication				
Barcode reader	USB barcode reader (HID) supported				
Detection: Thread break, skipped stitch	Standard equipment			Option	
Stitch alert	Option			Standard equipment	
Programmable controller	Dual original step sequence function				
Outline dimensions (mm) (WxDxH)	2122 x 1941 x 1205				
Mass (kg)	600			610	
Power supply	200 to 240V single-phase/three-phase				

*1:Sewing speed may be limited by the type of sewing material, presser weight and stitch length, etc.
 *2:The max. patterns may be limited depending on the number of stitches of each pattern in the memory.
 *3:Ethernet is a trademark of Fuji Xerox Co., Ltd.



⚠ Safety Precaution

To ensure safe and proper use of the products in this document, please make sure to read the relevant instruction manuals and technical notes before use.

Note: Be sure to confirm the details of the warranty when making a purchase.

MITSUBISHI ELECTRIC CORPORATION

FACTORY AUTOMATION SYSTEMS
 Tokyo Building, 2-7-3 Marunouchi, Chiyoda-ku, Tokyo 100-8310, JAPAN
<http://www.mtco-web.co.jp/misin/english/index.html>

INDUSTRIAL SEWING MACHINES

PLK-J10050

Shuttle: S

Rotary: R

Rotary x3: R3

Rotary Heavy: RH



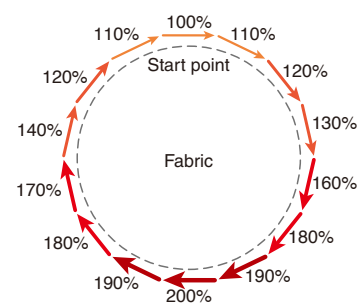


The evolution of future sewing

Everything to improve usability

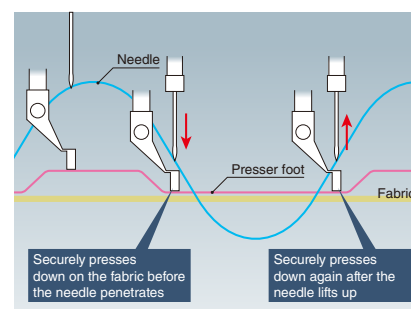
Optimizes thread tightness in all stitching directions Digital tension function

The sewing machine selects the optimum tension according to the stitching pattern.



Independent presser foot motion

The fabric pressing time and timing can be adjusted digitally to prevent the fabric from lifting up. This contributes to stable needle location and reduced stitch skipping.



Easy maintenance!
New arm-shaped, glass epoxy slide plate



The bobbin can be replaced from the top



Easy to see operations and simple 6.5-inch color operation panel

M3 Motion : Mix between intermittent and continuous system motion

This unique feature reduces vibration and noise to optimize the sewing.

E-stitch : Prevention of skipped stitches at start-up

Perfect thread maintain at start-up.

Modular concept.

4 different hooks available for the highest flexibility and to meet all your specific needs:

Shuttle / Rotary / Rotary x3 / Rotary Heavy.

Sewing machines equipped with "Pokayoke" to prevent human error

Materials thickness confirmation function ensures proper material layers before sewing starts.

Quality assurance from quality control

Equipped with the seam error detection function. The history and condition of every stitch can be transferred to storage device for future traceability.

Next-generation IT factory management

Integrated FA-IT solutions driven by Mitsubishi Electric **e-Factory**

e-F@ctory enables visualization of operating status through enhanced communication functions, contributing to flexible factory management. The best partner for sewing machines and other Mitsubishi Electric FA products.

