

Specifications

Item	Model	PLK-J2516-YU	PLK-J2516R-YU
Stitching style		Single-needle lockstitch	
Hook		Double-size shuttle	Double-size rotary
Needle		DP×17 #18	
Sewing area (X x Y) (mm)		300 x 200	
Max. speed (Note 1) (rpm)		M3 motion: 2300	
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		5 axis : Head & presser foot & thread tension & X & Y	
Upper shaft motor		Mitsubishi Electric 750W direct servo motor	
Lower shaft motor		-	
Work holder		Jig-eject system in option	
Needle bar stroke (mm)		41	40
Thread take up lever stroke (mm)		68	73
Presser foot drive		Direct drive by stepping motor	
Presser foot lift stroke		Max. 24.0 (step: 0.1)	
Presser foot stroke		Digital adjustment stroke: 0.0 to 10.0mm	
Upper thread tensioner		Manual or digital switchover method	
		Input data save function provided	
		Stitching direction-compatible automatic adjustment function provided	
Trim knife type		Arc engagement type by main motor of from cam	
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		Option	
Stitch alert		Option	
Programmable controller		Dual original step sequence function	
Outline dimensions (mm) (WxDxH)		1200 x 1144 x 1230	
Mass (kg)		187	
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.

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INDUSTRIAL SEWING MACHINES

PLK-J2516-YU

Shuttle: S
Rotary : R



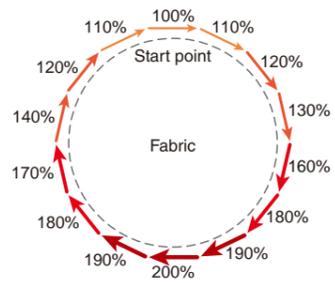


The evolution of future sewing

Everything to improve usability

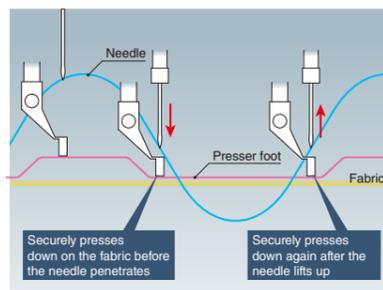
Optimizes thread tightness in all stitching directions Digital tension function

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.



M3 Motion : Mix between intermittent and continuous needle motion

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

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.

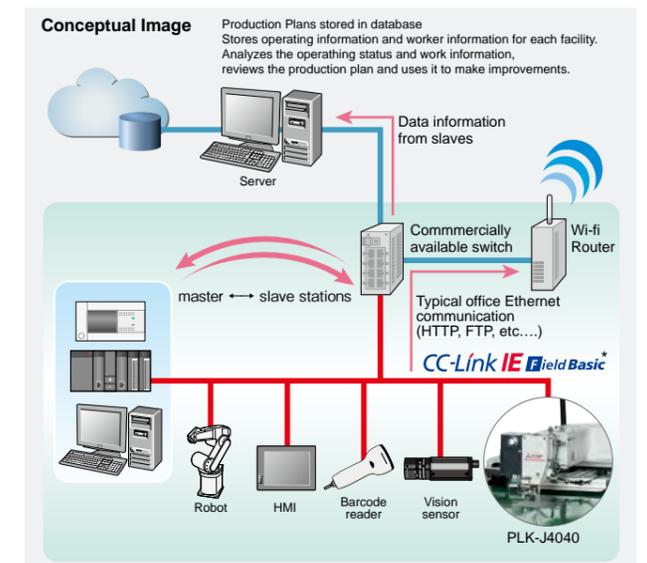
E-stitch : Prevention of skipped stitches at start-up

Perfect thread maintain at start-up.

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.



Stitch error detection option (skipped stitches, thread breaks)



Oiling of the upper shaft is digitally controlled so only a minimal amount of oil is needed.



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