

**Specifications**

| Item   | Model | PLK-J4040   | PLK-J4040R              | PLK-J4040R3               | PLK-J4040RH                      |
|--|-------|---|-------------------------|---------------------------|----------------------------------|
| Stitching style                                  |       | Single-needle lockstitch  |                         |                           |                                  |
| Hook   |       | Double-size shuttle hook  | Double-size rotary hook | 3-fold size rotary hook   | 6-fold rotary hook heavy         |
| Needle   |       | DP×17 #18   | DP×17 #21               | DP×17 #21                 | DD×1 #26                         |
| Sewing area (X x Y)                              |       | 400mm x 400mm   |                         |                           |                                  |
| Max. speed <sup>(Note 1)</sup>                   |       | M3 motion: 2000 rpm   | M3 motion: 2500 rpm     | M3 motion: 2500 rpm       | M3 motion: 1000 rpm              |
| Feeding system                                   |       | M3 motion : Intermittent and/or continuous  |                         |                           |                                  |
| Stitch length                                    |       | 0.1 to 20.0mm (min. resolution 0.1mm)   |                         |                           |                                  |
| Max. stitches                                    |       | 20,000 stitches/pattern   |                         |                           |                                  |
| Max. patterns                                    |       | 9,000 <sup>(Note 2)</sup>   |                         |                           |                                  |
| 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                                      |       | Chucking system   |                         |                           |                                  |
| Needle bar stroke                                |       | 41 mm   | 40 mm                   | 42 mm                     | 51 mm                            |
| Thread take up lever stroke                      |       | 78 mm   | 73 mm                   | 2 positions : 77mm / 74mm | 100 mm                           |
| Presser foot drive                               |       | Direct drive by stepping motor  |                         |                           |                                  |
| Presser foot lift stroke                         |       | Max. 24.0mm<br>variable in 0.1mm step   |                         |                           | Max. 30.0mm<br>variable in 0.1mm |
| 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                                  |       | Horizontal engagement LU 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 <sup>(Note 3)</sup> (CC-Link IE Field Basic compatible), USB communication |                         |                           |                                  |
| Barcode reader                                   |       | USB barcode reader (HID) supported  |                         |                           |                                  |
| Thread break detection, skipped stitch detection |       | Standard equipment  |                         |                           | Option                           |
| Stitch alert                                     |       | Option  |                         |                           | Standard equipment               |
| Programmable controller                          |       | Dual original step sequence function  |                         |                           |                                  |
| Outline dimensions                               |       | 1350 x 1570 x 1205 mm (WxDxH)   |                         |                           |                                  |
| Mass   |       | 440 kg  |                         |                           | 450 kg                           |
| 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 men  
 \*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-J4040

Shuttle: S

Rotary: R

Rotary x3: R3

Rotary Heavy: RH



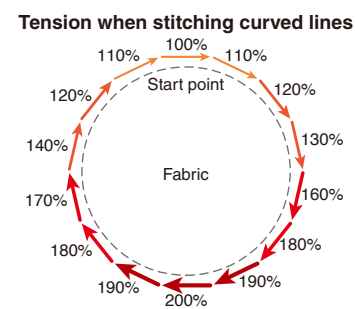


# The evolution of future sewing

## Everything to improve usability

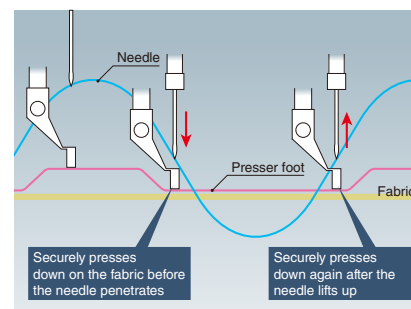
### Optimizes thread tightness in all stitching directions Digital tension function

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.



### 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.

### M3 Motion : Mix between intermittent and continuous needle 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.

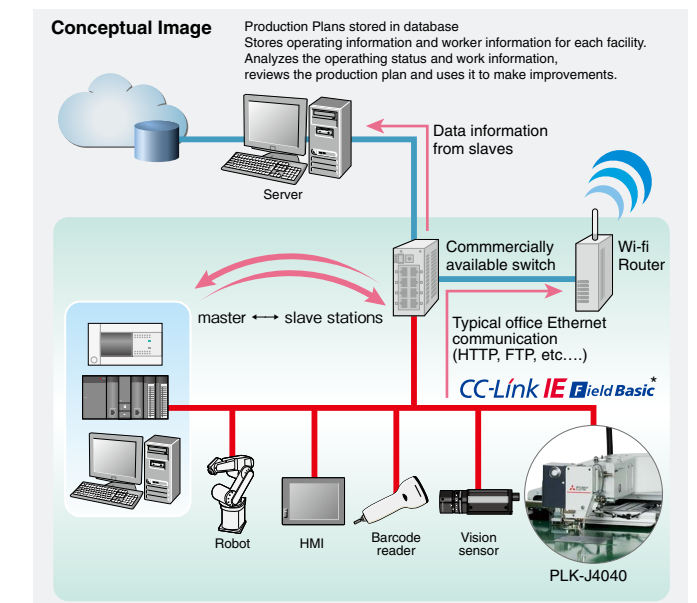
### Modular concept

4 different hooks available for the highest flexibility and to meet all your specific needs:  
Shuttle / Rotary / Rotary x3 / Rotary Heavy.

### Next-generation IT factory management

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

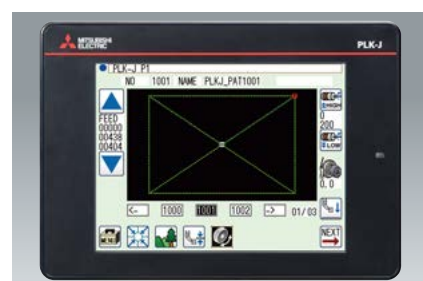
e-Factory enables visualization of operating status through enhanced communication functions, contributing to flexible factory management. The best partner for sewing machines and other Mitsubishi Electric FA products.



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