

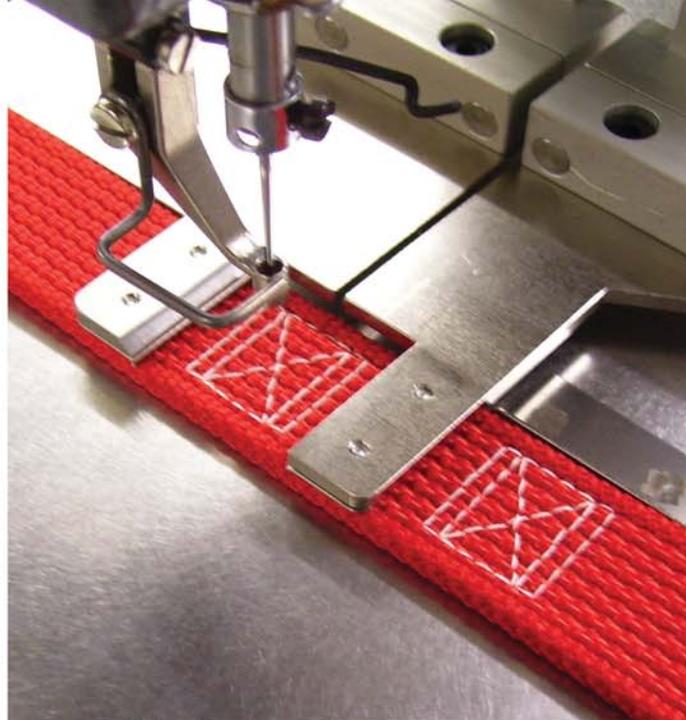
## PLK-G1010-K2-KX-KX9

▶▶▶ Electronically controlled small area sewing machine. Air operated 2-stage clamp offers the possibility to use the left and right clamp independently.

Sewing area (K2) 100x100mm

Sewing area (KX) 210x100mm

Sewing area (KX9) 230x100mm



# Advanced G series equipped with industry-leading machine specifications.

1

High-speed sewing leads the industry in tact time  
**2800 stitches/minute**

**Industry-leading class sewing speed**

2

Powerful penetration force even at start of stitching and thread trimming  
**750W** direct servomotor  
Increases sewing applications

**Industry's top class penetration force**

3

Prevention of skipped stitches and thread breakage even when stitching material thickness changes is accomplished by utilization the programmable presser foot height adjustment function.  
**Digital Feedback Control**

**Sewing quality improved with new control method**  
(Digital Sewing Technology)

4

Quicker processing of pattern data with high stitch count  
Pattern creation time minimized by **one-tenth**  
Work efficiency increased by **3 to 10-fold** (Mitsubishi comparison)

**USB memory & High-speed processing**

5

Power consumption **reduced by approx.40%** with DD\* method \* Direct drive (Mitsubishi Comparison)

**Power consumption is reduced Environment is considered**

6

Easy expansion for customization and automation  
Superior **affinity** with **host control units** (Mitsubishi PLC) enables

**Automation support functions**

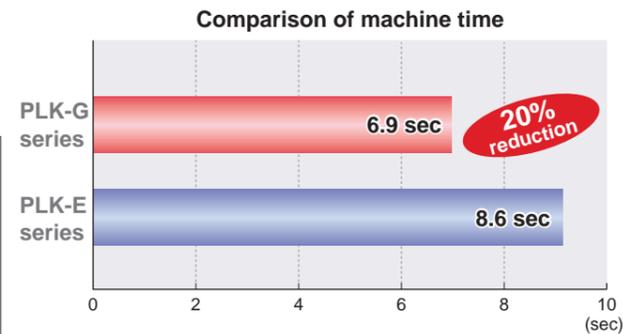
# G series



## Industry-leading Class Sewing Speed 2800 stitches/min

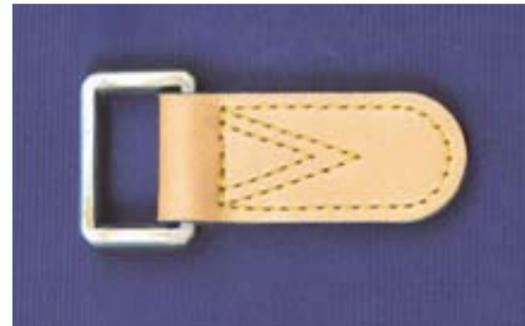
By Incorporating feedback for the XY table mechanism, high-speed sewing of a intermittent feed has been realized, and the machine time has been reduced by 20% over conventional models.

[Measurement conditions]  
 Sewing data :Square (100mm x 100mm) + diagonal line  
 Number of stitches :232 stitches  
 Stitch length :3mm  
 Sewing speed :2,800 stitches/min (PLK-G series)  
 (2,440 stitches/min (PLK-E series))



## Beautiful Stitches

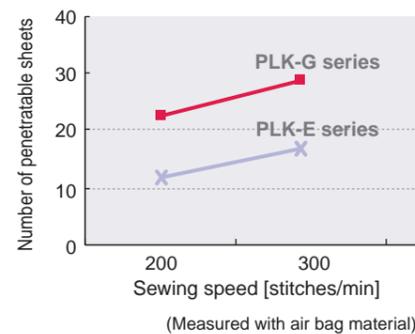
The improved presser foot mechanism and feed mechanism rigidity together with the latest feed control (feedback control) realize beautiful stitches from low to high speeds in all areas including corners which follow the sewing data and stitch linearity.



## Industry's Top Class Penetration Force

The powered-up 750W direct drive servomotor is the industry's top class penetration force. Low-speed sewing (200rpm) at the start of sewing and thread cutting which was conventionally difficult to perform can now be performed with ease.

Increased applications!!  
 Improved stability!!

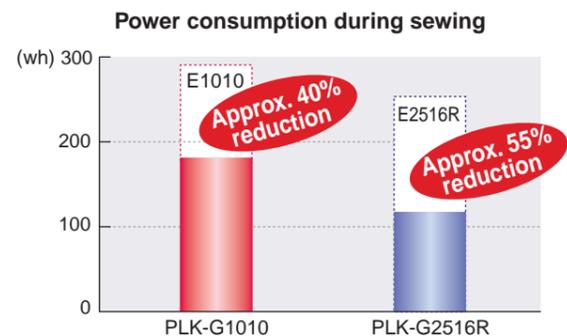


## Reduced Power Consumption

The direct drive method, with low power consumption, helps to reduce the power consumed during sewing by approx 40%.

Power consumed while waiting is also reduced by approx 50% by incorporating an XY drive feedback control method.

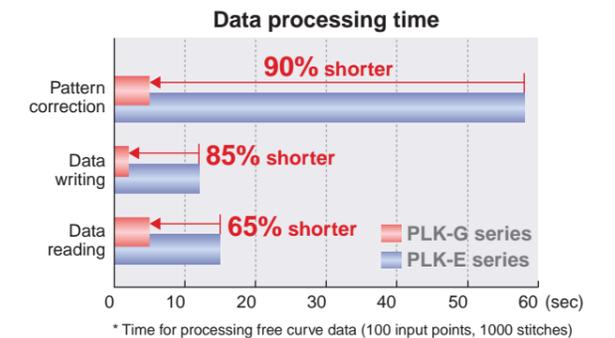
This electronic sewing machine boasts the market's lowest power consumption in this sewing area class.



## Improved Work Efficiency

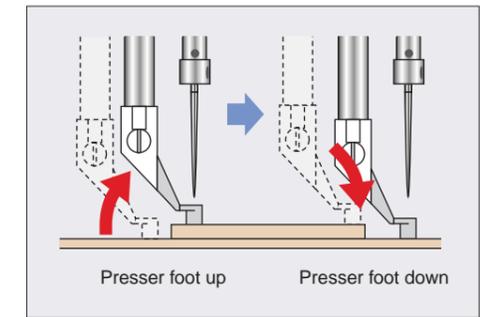
Adoption of a USB memory and high-speed processing system has greatly shortened the time required to input and correct data for patterns having many stitches.

The inching key greatly improves the speed during clamp movement, and improves the work efficiency.



## Programmable Presser Foot Height Control

A presser foot height program function is incorporated. Skipped stitches and thread breakage can be prevented by changing the presser foot height according to the material thickness. The programmed presser foot data is saved in the sewing data, so the presser foot height does not need to be adjusted even if the material thickness changes.



## Easy-to-use and see with large LCD touch-type operation panel

In addition to the basic sewing machine operations\*1, this panel can be used to process patterns\*2, confirm the status of the various sensor input and solenoid output signals, and to individually set the sewing machine functions and input/output ports.

- Switching patterns used often can be selected quickly with the shortcut button.
- Simple explanation function is incorporated to display the application of each screen button when the button is touched.
- When inputting patterns, the clamp frame movement speed can be selected from three steps.
- An easy-to-carry and use shape has been adopted.



\*1: Home return, jog, speed change, pattern call, up/down counter, bobbin winding, etc.  
 \*2: Pattern call, write, input, correction, conversion, etc.

# PLK-G1010-K2-KX-KX9

## PLK-G1010-K2-KX-KX9



This machine uses USB memory for pattern storage as well as an internal memory. It is equipped with an on-board touch screen for making sewing patterns and customizing parameters. The programmable presser foot height control is added for adjustment to different material thickness. A powerful 750 watt direct drive motor provides added needle penetration force. All sewing parts and electronic components are available.

### Specifications

| MODEL                   | PLK-G1010-K2-KX-KX9                 |
|-------------------------|-------------------------------------|
| Stitch Type             | Single Needle Lockstitch            |
| Sewing area (K2)        | (X) 100mm x (Y) 100mm (4" x 4")     |
| Sewing area (KX)        | (X) 210mm x (Y) 100mm (8 1/4" x 4") |
| Sewing area (KX9)       | (X) 230mm x (Y) 100mm (9" x 4")     |
| Max. Speed (K2)         | 2800 rpm (Depending on Application) |
| Max. Speed (KX and KX9) | 2000 rpm (Depending on Application) |
| Feeding System          | Intermittent or Continuous          |
| Stitch Length           | 0.1~20.0mm (Min. Resolution 0.1mm)  |
| Pattern Storage         | Internal Memory or External USB     |
| Max. Number of Stitches | 20,000 Stitches per Pattern         |
| Max. Number of Patterns | 900 Patterns (Internal Memory)      |
| Scale up / Scale down   | 10~200% for X and Y axis            |
| Presser Foot            | Adjustment by Stepping Motor        |
| Hook                    | Shuttle/Large/Size R Bobbin         |
| Needle                  | 135 x 17 size #18                   |
| Work Holder Lift        | Max. 25mm                           |
| Presser foot lift       | Max. 15mm                           |
| Operation Panel         | Touch Screen (PLK-G-PAL)            |
| Main Driving Motor      | 750 Watt Direct Drive               |
| Power                   | 220 Volt / Single or 3 Phase        |
| Clamp (Air)             | 2-Stage Split Clamp                 |
| Mass                    | 133 kg                              |

With Installed Expansion Kit



### Applications

Attaching webbing, labels, velcro, etc. on various operations on apparel, automotive, and military applications.

