



Changes for the Better

PLK-G4030-6030

➤ Electronically controlled large area sewing machine. Large shuttle hook, direct drive motor and programmable presser foot height adjustment.

Sewing area (4030) 400x300 mm

Sewing area (6030) 600x300 mm



Advanced, Large G Series – Equipped with Industry-leading Machine Specifications

1

Prevention of skipped stitches and thread breakage even when stitching material thickness changes is ensured using the programmable presser foot height adjustment function.

Digital Feedback Control

Sewing quality improved with new control method

(Digital sewing technology)

2

The digital feedback control suppresses vibrations. Reduced noise of **82 dB or less**

Low Vibration and Low Noise

3

Powerful penetration force even at the start of stitching and thread trimming. **750W** direct servo motor increases sewing applications.

Industry's top-class penetration force

(As of March 2011)

4

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

(Comparison with PLK-E Series)

USB memory & high-speed processing

5

Direct-drive method reduces power consumption by **approximately 40%**.

(Comparison with PLK-E Series)

Power consumption reduced in consideration of the environment

6

Easy expandability for customization and automation

Superior **compatibility** with **host control units**.

(Mitsubishi Electric programmable controller)

Automation support functions



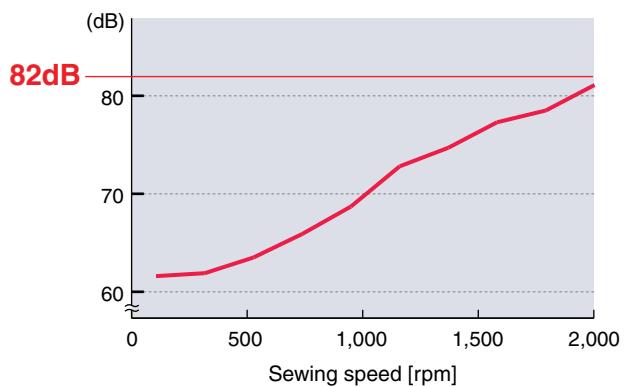
G series



Low Vibration and Low Noise

The digital feedback control suppresses vibrations, achieving a low noise of 82 dB or less *1.

- *1: Measurement condition
 - Stitch length : 3 mm
 - Sewing speed : 2,000 rpm
 - Feed method : Continuous
 - Sewing area : Maximum sewing area for each model



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.

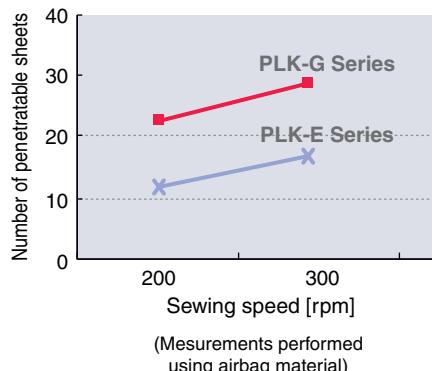


Industry Top-class Penetration Force (As of March 2011)

The increased power of the 750W direct-drive servo motor provides the industry top-class penetration force.

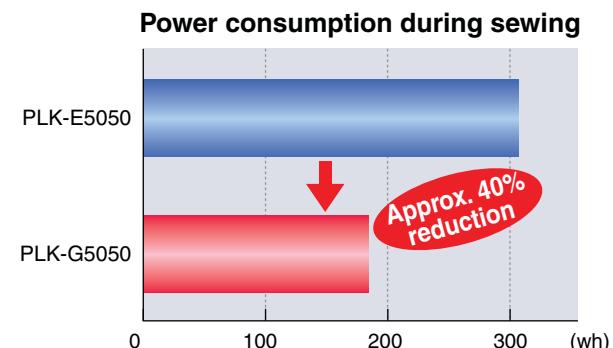
Low-speed sewing (200 rpm) at the start of sewing and thread cutting, which was conventionally difficult to carry out, can now be performed with ease.

- Increased applications!!
- Improved stability!!
- Improved quality!!



Reduced Power Consumption

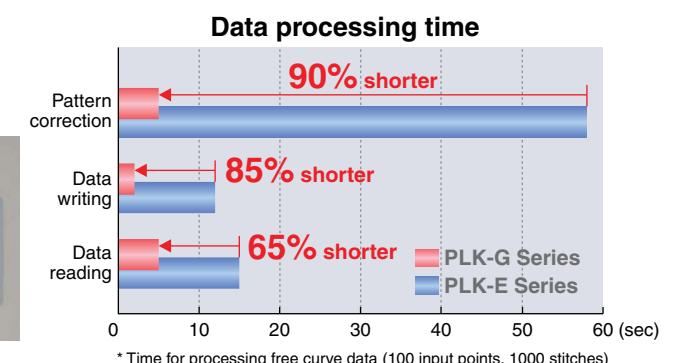
The direct-drive method helps to reduce the power consumed during sewing by approximately 40% (for G5050).



Improved Work Efficiency

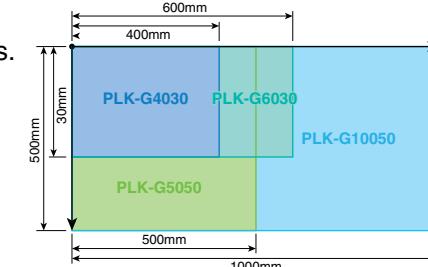
Adoption of a USB memory and high-speed processing system has greatly shortened the time required to input and correct data for patterns with many stitches.

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



Wide Sewing Area

Sewing can be performed on small to large material in high accuracy. With the wide sewing area, a user can easily perform checks at material setup and during sewing, and make high-quality stitches.



Large, High-visibility, Easy-to-use 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 individually set the sewing machine functions and input/output ports.

- Frequently used switching patterns can be selected quickly with the shortcut button.
- A 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 different settings.
- An easy-to-carry and use shape has been adopted.

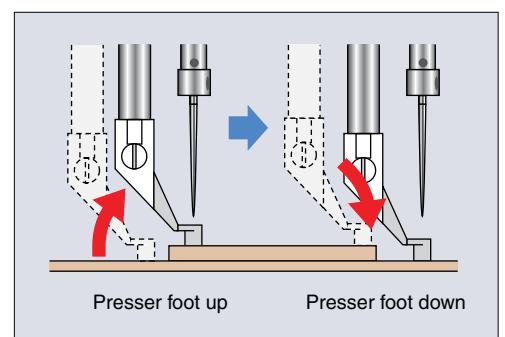
*1: Home position return, jog, speed change, pattern call, up/down counter, bobbin winding, etc.

*2: Pattern call, write, input, correction, conversion, etc.



Programmable Presser Foot Height Control

A programmable presser foot height 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.



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This machine uses an external USB memory for sewing pattern storage as well as an internal memory with high-speed processing. It is equipped with an on-board touch screen for easily creating sewing patterns, customizing parameters and adjusting the presser foot sewing height to name a few. Digital feedback control is also added on the PLK-G models for improved stitch quality and low vibration and noise. For that hard to penetrate material even at a low speed, a 750 watt direct drive servo is provided.

Specifications

MODEL	PLK-G4030-6030
Stitch Type	Single Needle Lockstitch
Sewing area (4030)	(X) 400mm x (Y) 300mm (15 3/4" x 11 13/16")
Sewing area (6030)	(X) 600mm x (Y) 300mm (23 5/8" x 11 13/16")
Max. Speed	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. 30mm
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)	Single Valve Dual Air Cylinders
Mass	4030 (420 kg) 6030 (440 kg)

Applications

Automobile seats and airbags, aircraft seats and belts, tactical gear and other items.

