



INDUSTRIAL SEWING MACHINES



Electronically-controlled Sewing Machines

Compact-type Pattern Sewing Machine (Large-size shuttle-hook-type)

PLK-G1010/K2/KX/KX9

Sewing Area in mm 100 x 100mm (KX-210x100) (KX9-230x100)



Max. speed	(rpm)	2,800 (*1)
Feeding system		Intermittent or continuous
Stitch length	gth (mm) 0.1 to 20.0 (minimum resolution 0.1)	
Needle		DP x 17#18
Hook		Shuttle (large)
Max. patterns		900 (*2)
Max. stitches		20,000/pattern
Presser foot drive		Magnetic
Mass	(kg)	133

- *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.

Electronically-controlled Sewing Machines

Mid-size Area Pattern Sewing Machine (Double-size rotary-hook-type)

PLK-G2010R

Sewing Area 200 x 100mm



Max. speed (rpm)	2,800 (*1)
Feeding system	Intermittent or continuous
Stitch length (mm)	0.1 to 20.0 (minimum resolution 0.1)
Needle	DP x 17#18
Hook	Double-size rotary hook
Max. patterns	900 (*2)
Max. stitches	20,000/pattern
Presser foot drive	Pneumatic
Mass (kg)	147

- *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.

Mid-size Area Pattern Sewing Machine (Large-size shuttle-hook-type)

PLK-G2516 PLK-G2516YU



Model		PLK-G2516	PLK-G2516YU				
Max. speed	(rpm)	2,800 (*1)	2,300 (*1)				
Feeding system		Intermittent or continuous					
Stitch length	(mm)	0.1 to 20.0 (minimum resolution 0.1)					
Needle		DP x 17#18					
Hook		Shuttle	(large)				
Max. patterns		900 (*2)					
Max. stitches		20,000/pattern					
Presser foot drive		Pneumatic					
Mass	(kg)	161.5 163.5					

- *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.

Mid-size Area Pattern Sewing Machine (Double-size rotary-hook-type)

PLK-G2516R

Sewing Area 250 x 160mm



Max. speed (rpn	2,800 (*1)
Feeding system	Intermittent or continuous
Stitch length (mn	0.1 to 20.0 (minimum resolution 0.1)
Needle	DP x 17#18
Hook	Double-size rotary hook
Max. patterns	900 (*2)
Max. stitches	20,000/pattern
Presser foot drive	Pneumatic
Mass (kg	168.5

- *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.

Electronically-controlled Sewing Machines

Wide-area Pattern Sewing Machine

PLK-G4030/4030R PLK-G6030/6030R

Sewing Area PLK-G4030 400 x 300mm PLK-G6030 600 x 300mm

Model	PLK-G4030	G4030R	PLK-G603	0 G6030R	
Max. speed (rpm)	2,000 (*1)				
Feeding system	Intermittent or continuous				
Stitch length (mm)	0.1 to 20.0 (minimum resolution 0.1				
Needle		DP x	17#18		
Hook		Double size rotary hook Shuttl	e(Large)	Double size rotary hook	
Max. patterns	900 (*2)				
Max. stitches	20,000/pattern				
Presser foot drive	Pneumatic				
Mass (kg)	420	430	440	450	

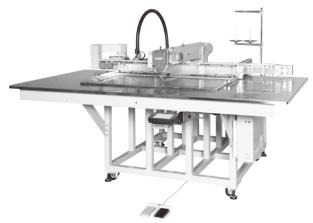
- *1:Sewing speed may be limited by the type of sewing material, presser weight and stitch length, etc.
- *2:The max. patterns may be limited depending on the number of stitches of each pattern in the memory.

Extra-large-sized Sewing Machine

PLK-G5050/5050R PLK-G10050/10050R

Sewing Area PLK-G5050

500 x 500mm PLK-G10050 1,000 x 500mm



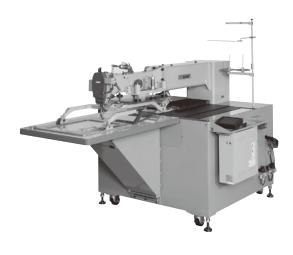
Model		PLK-G5050	G5050R	PLK-G10050	G5050R		
Max. speed (rpm)		1,600 (intermittent) / 2,000 (continuous) (*1)					
Feeding system		Intermittent or continuous					
Stitch length (mr	~\	0.1 to 20.0 (intermittent) / 0.1 to 4.3 (continuous)					
Stitch length (mr	11)	(minimum resolution 0.1)					
Needle	DP x 17#18						
Hook			Double size rotary hook		Double size rotary hook		
HOOK			Shuttle	(Large)			
Max. patterns		900 (*2)					
Max. stitches		20,000/pattern					
Presser foot drive	Pneumatic						
Mass (k	g)	470	480	500	510		
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- *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.

For Extra-thick Material (Wide-area)

PLK-G3040R

Sewing Area 300 x 400mm



1,000 (*1)
Intermittent or continuous
0.1 to 20.0 (minimum resolution 0.1)
DD x 1#26
Extra large hook
900 (*2)
20,000/pattern
Pneumatic
620

Electronically-controlled Sewing Machines

- *1:Sewing speed may be limited by the type of sewing material, presser weight and
- *2:The max. patterns may be limited depending on the number of stitches of each pattern in the memory.

For Extra-thick Material (Compact-type) (Mid-size Area)

PLK-G2008H PLK-G2008H-BTRM



G2008H-BTRM
nuous
solution 0.1)
ok
n
170

- *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.

Electronically-controlled Sewing Machines

OPERATION PANEL [PLK-G-PAL]

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 individually set the sewing machine functions and input/output ports.

- ·Switching patterns used often 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
- ·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.



Options (PLK-G Series)

PC software [PTN-GX]

Sewing data creation software

PTN-GX

Sewing data can be easily created on a personal computer.

CAD data can also be imported.

External data can be imported and converted into

The operation of an automated device can be easily input and edited on the sewing data.

Sewing machine parameter setting software

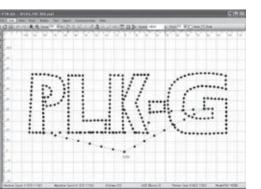
PLKG-SET

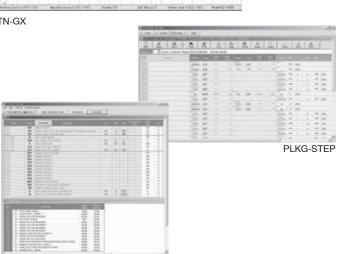
Settings carried out with the sewing machine's operation panel can be made with a personal

Sewing machine sequence software

PLKG-STEP

The sewing machine and external device operations can be programmed.





PLKG-SET

Optional devices

Pneumatic 2-step tensioner MP-G10-AT



Upper thread-breakage detector MP-G10-TS



2-step left/right alternating clamp MP-G10-K2

Electronically-controlled Sewing Machines



Part name	Туре	G1010	G2010R	G2516R	G2516	G4030 G4030R	G6030 G6030R	G5050 G5050R	G10050 G10050R	Application
Pneumatic clamp	MP-G10-AO	•	_	_	_	_	_	_	_	Suitable for materials requiring clamp holding force.
Pneumatic two-stage clamp	MP-G10-K2	•	_	_	_	_	_	_	_	The left and right clamps can be lowered independently, making part and label stitching easier.
Label sewing unit	MP-G10-AH	•	_	_	_	_	_	_	_	This device is used to stitch the entire periphery of parts or labels.
Manualalana	MP-G20-MF	_	•	_	_	_	_	_	_	The sewing material position can be
Manual clamp	MP-G25-MF	_	_	•	•	_	_	_	_	fine-tuned manually.
	MP-G10-AT	•	_	_	_	_	_	_	_	Differences in the thread tension, caused
Pneumatic 2-step tensioner	MP-G20-AT	_	•	•	•	_	_	_	_	by changes in the stitching direction or
	MP-G40-AT	_	_	_	_	•	•	•	•	thickness, are eliminated.
Sewing area extension kit	MP-G10-EX	•	_	_	_	_	_	_	_	The sewing area can be extended in the X-axis direction by 210mm.
Upper thread-	MP-G10-TH	•	_	_	_	_	_	_	_	The trimmed needle thread is held,
holding device	MP-G20R-TH	_	•	•	•	_	_	_	_	preventing the thread from tangling at the start of stitching.
	MP-G10-TS	•	_	_	_	_	_	_	_	· ·
Upper thread-	MP-G25-TS	_	•	•	•	_	_	_	_	The sewing machine is stopped
oreakage detector	MP-G40-TS	_	_	_	_	•	•	_	_	if breakage of the needle thread is detected.
	MP-G50-TS	_	_	_	_	_	_	•	•	
Nacella aceleu	MP-G10-NC	•	_	_	_	_	_	_	_	Needle thread breakage caused by heat is
Needle cooler	MP-G20-NC	_	•	•	•	_		_	_	prevented by cooling the needle with air.
Sewing machine head lifting auxiliary	MP-G10-GS	•		_	_	_	_	_	_	Force required to lift the sewing machine
component	MP-G20-GS	_	•	_	_	_	_	_	_	head is reduced with a gas spring.
	MP-G10-TE	•	_	_	_	_	_	_	_	
/O expansion unit	MP-G20-TE	_	•	•	•	_	_	_	_	The number of input/output ports which can be connected to the sewing machine
yo expansion unit	MP-G40-TE	_	_	_	_	•	•	_	_	is increased. (12 extra input ports, 12 extra output ports)
	MP-G50-TF	_					_			(12 CALIA III) di porto, 12 EALIA Odiput porto)

Lockstitch Machines with Automatic Undertrimmer Single needle

Upper and Lower Feed-type (LY2-3319-B1T: Long Arm)

LY2-3310-B1T



Applications	Heavy
Max. speed (rpm)	2,000
Max. stitch length (mm)	8
Presser foot clearance (mm)	Knee/15, hand/6
Needle	DB x 17#22 (DB x 1#22)
Hook	Large
Touch back	0
Control switch panel	Option: XC-G500-Y
Automatic lifter	Option: LE-FA
Mass (kg)	33

Upper and Lower Feed-type (High and Long Arm)

LY2-3750-B1T



Applications	Heavy
Max. speed (rpm)	2,000
Max. stitch length (mm)	8
Presser foot clearance (mm)	Knee/16, hand/6
Needle	DP x 17#22 (DB x 1#22)
Hook	Large
Touch back	0
Control switch panel	Option: XC-G500-Y
Automatic lifter	Option: LE-FA
Mass (kg)	39

Lockstitch Machines with Automatic Undertrimmer Horizontal Rotating Hook

Double-needle, Needle-feed

LT2-2230-B1T



Applications		Medium			
Max. speed		3,000			
Max. stitch leng	jth (rpm)	7			
Presser foot cle	earance (mm)	Knee/13, hand/7			
Needle	(mm)	DP x 5#18			
Hook		Large			
Touch back		0			
Wiper		_			
Needle goven	Standard	6.4			
Needle gauge	Special	2.4, 3.2, 4, 4.8, 5.6, 8, 9.5, 12.7,			
(mm)	•	16, 19.1, 25.4, 28.5, 31.8, 38.1			
Control switch p	oanel	Option: XC-G500-Y			
Automatic lifter		Option: CX-FM-2			
Mass	(kg)	44			

Double-needle, Needle-feed, Corner Stitch

LT2-2250-B1T



Applications		Medium	
Max. speed		3,000	
Max. stitch leng	jth (rpm)	7	
Presser foot cle	earance (mm)	Knee/13, hand/7	
Needle	(mm)	DP x 5#18	
Hook		Large	
Touch back		0	
Wiper		Option	
Needle gauge	Standard	6.4	
(mm)	Special	3.2, 4.8, 8, 9.5, 12.7	
Control switch panel		Option: XC-G500-Y	
Automatic lifter		Option: CX-FM-2	
Mass (kg)		46	

Single-needle, Compound-feed

LU2-4410-B1T-CS

Double-needle, Compound-feed

LU2-4430-B1T



Model		LU2-4410-B1T-CS	LU2-4430-B1T
Applications		Car seats	Heavy
Max. speed	(rpm)	2,0	000
Max. stitch leng	jth (mm)	Ş)
Presser foot cle	earance (mm)	Knee/16	, hand/8
Needle		DP x 17#21	DP x 17#23
Na cella escuera	Standard	-	6.4
Needle gauge	Special	_	3.2, 4, 4.8, 8, 9.5,
(mm)			12.7, 16, 19, 25.4
Automatic thread trimmer		Ö	
Control switch panel		Option: XC-G500-Y	
Automatic lifter		Option: LE-FA	
Mass (kg)		42	

Single-needle, Compound-feed

LU2-4710-B1T

Double-needle, Compound-feed

LU2-4730-B1T



Model		LU2-4710-B1T LU2		?-4730-B1T	
Application	ons		Heavy		
		Speed	Alternate	e stroke	Stitch length
Max. spe	ed	3,000(2,500)	2)	0 to 6
(rpm/mm)		2,700(2,300)	3	}	0 to 6
		2,000(2,000)	5 to	6 0	6 to 9
Max. stitc	h length (mm)		9)	
Presser fo	oot clearance (mm)	Knee/16, hand/9			
Needle		DP x 17#23			
	Alternate volume	2 to 6mm			
Alternate	Adjusting method	Dial-type			
	Instant alternate change	Air-cylinder-type (0.39 Mpa)			
Touch ba	ck	0			
Hook		Large			
Needle gauge	Standard	_		3.2	
(mm)	Special	_		6.4, 12.7, 19, 25.4	
Control switch panel		Option: XC-G500-Y			-Y
Automatic presser		Option: LE-FA			
Mass	(kg)		4	47	

Lockstitch Machines with Automatic Undertrimmer Horizontal Rotating Hook

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Lockstitch Machines

Single Needle

Single Needle

LS2-1130-M0B/-H0B/-B0B



Model	LS2-1130-M0B	LS2-1130-H0B	LS2-1130-B0B
Applications	Light to medium	Heavy	
Max. speed (rpm	4,500	3,500	
Max. stitch length (mm	5	7	
Presser foot clearance (mm	Knee/13, hand/6		
Needle	DB x 1#14	DB x	1#22
Hook	Standard	Thick fabric	Large
Mass (kg		26	

Upper and Lower Feed

LY2-3300-B0B



Applications	Heavy
Max. speed (rpi	n) 2,000
Max. stitch length (mi	m) 8
Presser foot clearance (mi	m) Knee/15, hand/6
Needle	DP x 17#22 (DB x 1#22)
Hook	Large
Mass (k	g) 33

Upper and Lower Feed

DY-253-00



Applications		Extra heavy
Max. speed	(rpm)	1,200
Max. stitch length	(mm)	12.7
Presser foot clearance	(mm)	Knee/15, hand/12.7
Needle		DD x 1#25
Hook		Special
Mass	(kg)	64

Lockstitch Machines

Horizontal Rotating Hook

Double-needle, Needle-feed

LT2-2220-B0B



No. of needles		Double	
Applications		Medium	
Max. speed		3,000	
Max. stitch len	gth (rpm)	7	
Presser foot clearance (mm)		Knee/13, hand/7	
Needle (mm)		DP x 5#18	
Hook		Large	
Na salla sassas	Standard	6.4	
Needle gauge	0 1	2.4, 3.2, 4, 4.8, 5.6, 8, 9.5, 12.7, 16, 19.1,	
(mm) Special	Special	25.4, 28.5, 31.8, 38.1	
Mass (kg)		41	

Single-needle, Compound-feed

LU2-4400-B0B

Double-needle, Compound-feed

LU2-4420-B0B



/lodel		LU2-4400-B0B	LU2-4420-B0B	
lo. of needles	3	Single	Double	
pplications		Heavy		
lax. speed	(rpm)	2,0	000	
lax. stitch len	gth (mm)	,	9	
resser foot cl	earance (mm)	Knee/16, hand/8		
leedle		DP x 17#23		
łook		Large		
loodlo gougo	Standard	_	6.4	
leedle gauge mm)			3.2, 4, 4.8, 8, 9.5,	
	Special	_	12.7, 16, 19, 25.4	
Mass (kg)		39		

Options

XC-G500-Y Control Switch Panel for XC-G AC Servo

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2997 H+	v+12 8+8F C+	0+ 1-3 N	70794	125-		80.
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Item			XC-G500-Y		
	Number of dis	5 digits			
	Stitching	Straight lock stitching	Installed		
		Start/End Back tacking	6 types		
		Stitching with fixed stitches	1 - 9999 stitches		
	Stitching with	Continuous pattern	Max. 8 pattern,		
	fixed stitches	Continuous pattern	Max 25 process		
		Start/End Back tacking	6 types		
	Up/down coun	One counter each			
	alarm setting		(display is 4 digits)		
	Trimming can	cel key	Installed		
	Automatic key		Installed		
	Additonal inpu	Installed			
Parameter of control box copy function			Installed		
	Additional LED	O display	Installed		

XC-G10S/L Control Switch Panel for XC-G AC Servo



Item		XC-G10S/L
Number of dis	play digits	5 digits
Stitching	Straight lock stitching	Installed
	Start/End Back tacking	6 types
	Stitching with fixed stitiches	1 - 9999 stitches
Up/down counter with		One counter each
alarm setting		(display is 4 digits)

LE-FA Automatic Pneumatic Presser Foot Lifter



Air pressure range	0.147 MPa to 0.97MPa
All pressure range	(1.5 to 9.9 kg/cm ²)
1.161	MAX. 13.73 N·m (MAX.140 kg-cm)
Lifting torque	(at 0.49 Mpa [5 kg/cm ²] air pressure)
Amuliantian	Heavy material
Application	(requiring extremely high pressure)

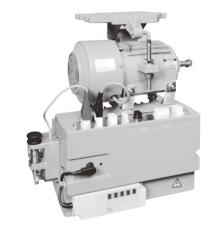
XC-FM-2 Automatic Electromagnetic Presser Foot Lifter



Lifting	Approx. 6.37 N•m (Approx. 65 kg-m)				
Application	Heavy				
Source Voltage	24V				

Compact, lightweight motor with complete range of convenient functions

New Mitsubishi Electric LIMISERVO G Series



(Motor)

Туре	Motor Connector	Power Supply		Output	Output	Mass
		Number of phases	Voltage (V)	(W)	Shaft	iviass
XL-G554-10Y	Strain relief	Single phase	100 to 120	550	Taper shaft	6.9kg (net) 9.1kg (gross)
XL-G554-20Y		Three phases Single phases (*1)	200 to 240			

Motors for industrial sewing machines

(Control Box)

Туре	Output	Power Supply			.,
		No. of phases	Voltage (V)	Functions	Mass
XC-GMFY-10-05	550W	Single-phase	100 to 120	Full functionality including automatic thread trimming, foot pedal lifting, fixed-stitch stitching, continuous stitching and backtacking. Equipped with step sequence, simple sequence and	
XC-GMFYCE-20-05 (*2)	550W	Single-phase	200 to 240	computer communication functions (when connected to control panel). Equipped with 8 solenoid drive outputs, 2 electromagnetic valve	3.5kg (net) 6.9kg (gross)
XC-GMFY-20-05	550W	3-phase Single-phase (*1)	200 to 240	outputs. 1 small-signal output and 14 input terminals including a variable voltage input.	

^{*1:}Refer to the instructions on how to connect the cable.

XC-CVS-3 Variable-speed Pedal

Allows operator to vary speeds while standing. Especially useful for stitching corners and curves.



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^{*2:}Type [XC-GMFYCE] is for CE market.



In order to properly and safely utilize the sewing machines mentioned in this brochure, before starting the operation, please make sure to read the related instruction manuals.



for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

MITSUBISHI ELECTRIC CORPORATION

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