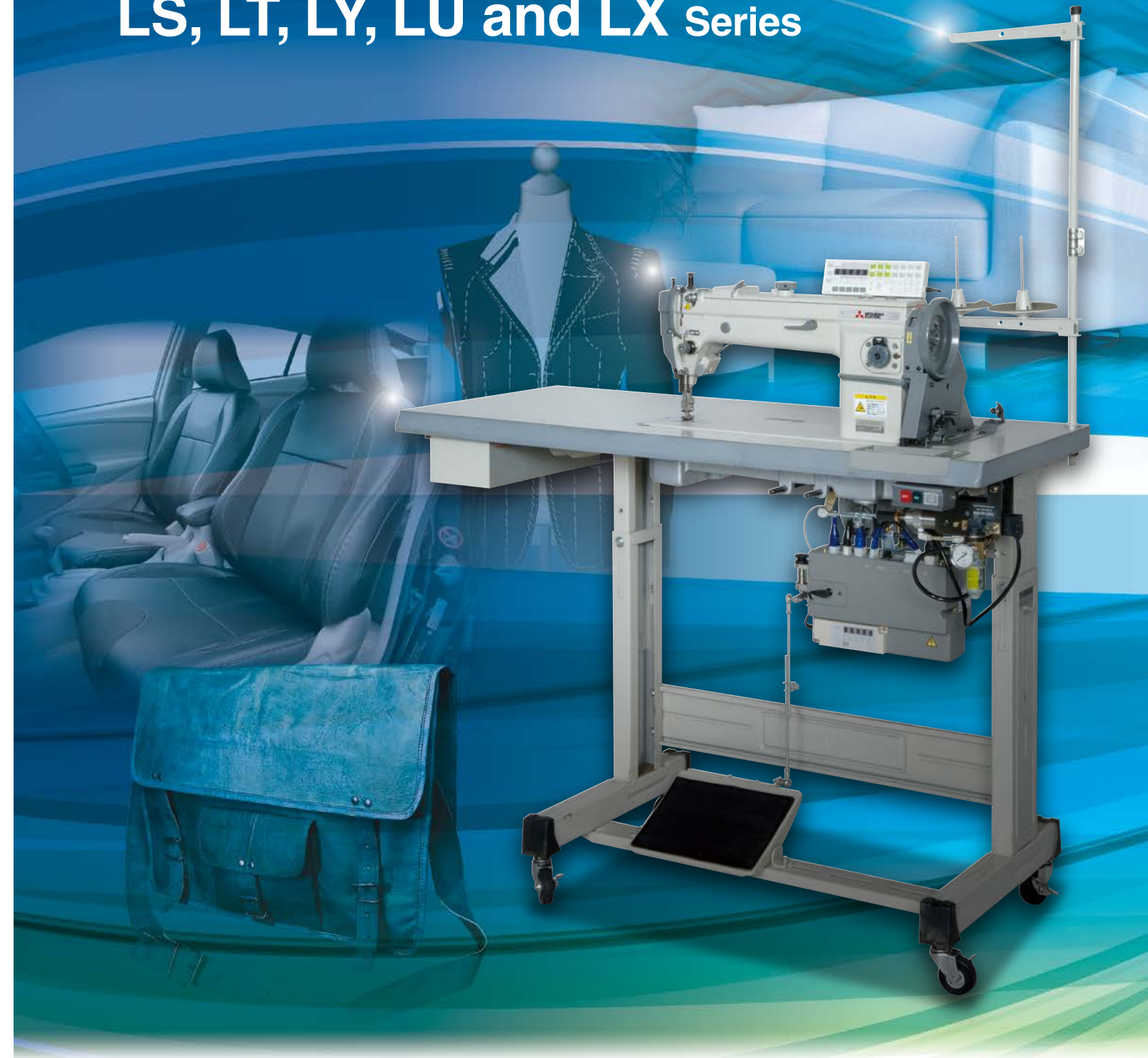




Mitsubishi Electric Industrial Lockstitch
Sewing Machines

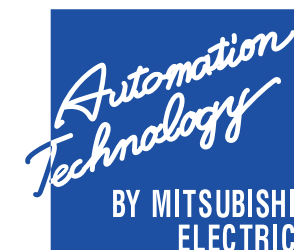
Changes for the Better


LS, LT, LY, LU and LX Series



MITSUBISHI ELECTRIC CORPORATION

HEAD OFFICE: TOKYO BLDG., 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN
<http://www.mtco-web.co.jp/misin/>



for a greener tomorrow 

Various models with diverse functions and easy operation to increase productivity

Apparel

Menswear/Womenswear

LT2-2220-B0B
LT2-2230-B1T
LT2-2250-B1T
LX2-630-M1
LX5-871-M0

Pants

LT2-2220-B0B
LT2-2230-B1T
LT2-2250-B1T

Shirts

LT2-2230-B1T
LT2-2250-B1T

Jeans

LT2-2220-B0B
LT2-2230-B1T
LT2-2250-B1T



Bags and Shoes

Bags

LT2-2220-B0B	LU2-4420-B0B
LY2-3310-B1T	LU2-4430-B1T
LY2-3319-B1T	LU2-4652-B1T
LY2-3750-B1T	LU2-4710-B1T
LY2-3300-B0B	LU2-4730-B1T
LY3-6840-B0T	LU5-5720-B0T
LU2-4410-B1T-CS	DY-253-00
LU2-4400-B0B	

Sports shoes

LS2-3300-B0B
LS2-3310-B1T



Automobiles

Car seats

LY2-3310-B1T	LU2-4652-B1T
LY2-3750-B1T	LU5-5720-B0T
LY2-3319-B1T	LU2-4400-B0B
LU2-4410-B1T-CS	LU2-4420-B0B
LU2-4430-B1T	LU2-4710-B1T
	LU2-4730-B1T

Airbags

LY2-3750-B1T	LU2-4652-B1T
LU2-4410-B1T-CS	



Industrial Materials

Container bags

LY2-3300-B0B	LU2-4430-B1T
LY2-3310-B1T	LU2-4652-B1T
LY2-3750-B1T	LU2-4710-B1T
LU2-4410-B1T-CS	LU2-4730-B1T
LU2-4400-B0B	LU5-5720-B0T
LU2-4420-B0B	DY-253-00



Furniture

Sofas

LT2-2220-B0B	LU2-4400-B0B
LY2-3300-B0B	LU2-4420-B0B
LY2-3310-B1T	LU2-4430-B1T
LY2-3750-B1T	LU2-4652-B1T
LU2-4410-B1T-CS	LU5-5720-B0T



Lockstitch Needle Feed

Leader in diversified sewing work using easy to operate functions.
Twin-needle lockstitch feed sewing machines made possible using cutting-edge technologies from Mitsubishi Electric.

Introducing a new, easy-to-use twin-needle lockstitch feed corner stitching machine capable of responding to diverse sewing needs. A new bobbin thread holding mechanism, presser mechanism upgrade, and a left-right independent adjustable thread trimming spring have been incorporated while retaining the same beautiful, stable stitching of previous models. Sewing machine appearance has been updated with the introduction of a soft olive-white body color. The new LIMISERVO X-G Series offers improved sewing operation ease and stitching performance.



Ceramic thread route with outstanding durability



Low-wear ceramic materials are used for the thread route in the thread tension regulator, resulting in a dramatic improvement in durability.

Built-in detector for highly accurate positioning



Needle stop UP and DOWN positions can be adjusted separately with a single touch. The normal state can be confirmed easily via indicator lamps.

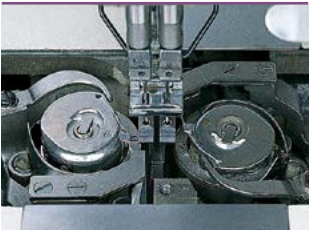
Stitch length adjustment dial with lock

Accurately prevent problems such as changing stitch length during sewing.

Variable stitch lever

Lever can be mounted on the side of the control panel.
● Easily separate from the panel.
● Easily mount the pedal for a standing sewing machine.

Stable thread trimming from thin to thick threads



A moving knife and fixed knife that move linearly in parallel with the feed gear are used to cut thin to thick threads (#8) with a clean cut.

Easy-maintenance automatic lubrication system



The automatic lubrication system eliminates the need for manual oiling. A pump feeds oil in the oil tank to the required sections, further improving sewing machine durability.

Operation box (option)

Choose from a variety of stitching patterns.

Left-right independent adjustable thread trimming spring



Thread tension can be adjusted for the left and right threads. Adjustments are easy to make, and stepped stitching such as stitching collars turns out beautifully.

Bobbin thread-holding mechanism with adjustable thread-holding pressure



Bobbin thread-holding mechanism for trimming the thread has an adjustable bobbin thread-holding pressure that can be adjusted according to the thread being used. (LT2-2230/LT2-2250)

Wiper performance enhanced



Wiper mechanism performance has been increased by approximately 60% (in-house comparison). Stable wiping of thick threads has been realized.

Automatic presser foot lifter (option)



Magnetic type XC-FM-2
Pneumatic type LE-FA

Powerful, high-performance Limiservo X-G Series

- Simple sequence function built-in.
- Inserting and removing fabrics made easy with reverse-run needle lifting function.
- Needle dropping position can be accurately determined by stopping just before fabric function.

Reliable, popular all-digital servo

- True maintenance-free operation realized with no wear sections.
- Complete energy-saving, low-noise and noise-reducing design.

User-friendly functions

Personal computer interface

- Setting data can be managed using setup software such as batch import, export and saving settings. (XCG_SET)
- Step sequences can be created and edited with dedicated step sequence software. (XCG_STEP)

Product Specifications

Twin-needle lockstitch:
Needle feed

LT2-2220-B0B



Twin-needle lockstitch:
Needle feed

LT2-2230-B1T



Twin-needle lockstitch:
Needle feed: Corner stitching

LT2-2250-B1T



Legend DD DD Direct drive Thread trimmer Twin-needle Hook Underarm space

	Lockstitch needle feed		
Model	LT2-2220-B0B	LT2-2230-B1T	LT2-2250-B1T
Stitch type	Twin-needle lockstitch		
Application	Medium to thick fabrics		
Maximum speed	3,000rpm		
Maximum stitch length	7mm		
Presser rise amount (manual)	7mm		
Presser rise amount (knee)	13mm		
Needle	DP×5 #18		
Hook	Horizontal full-rotation doubl-hook		
Needle bar stroke	35.0mm		33.4mm
Thread trimmer	—	○	
Touch back	—	○	
Wiper	—	Option	
Lubrication method	Automatic lubrication		
Needle width (standard)	6.4mm		
Needle width (special)	3.2/4.8/8.0/9.5/12.7mm		
Feed dog	1.7×ø2.5 (thick fabric)	1.7×2.2×3.2 (thick fabric)	
Bed shape	Flat bed		
Underarm space length	250.5mm		
Bed dimensions	517×178mm		
Weight	36kg	39kg	40kg

* Above specifications support the 1.15xø1.6 option for thin fabrics.

Notes 1. The weight applies only to the sewing machine.

2. Operation caution labels are attached to the sewing machine body.

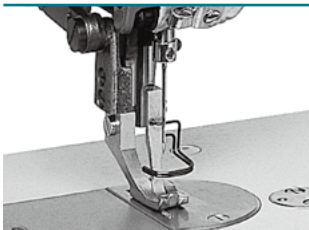
Lockstitch Vertical Feed

Operation improved with popular vertical feed mechanism and new servomotor!
High-long arm contributes advanced stitching work diversity.

Mitsubishi Electric's popular vertical feed mechanism accurately catches hard-to-feed materials and slippery fabrics, enabling reliable stitching.
The new LIMISERVO X-G Series further improves sewing machine operation and stitching performance.

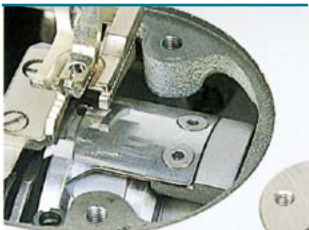


Vertical feed mechanism for accurate feeding



The vertical feed sandwiches and accurately feeds hard-to-feed materials.

Stable thread trimming performance from thin to thick threads



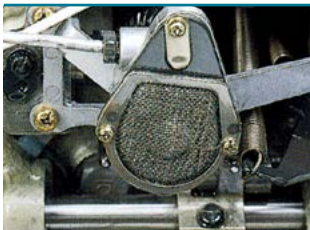
Popular rotating left knife and fixed right knife can sharply cut thin to thick (#6) threads. (LY2-3750/LY2-3310)

Simple front/back stitch pitch adjustment Stitch adjustment dial with lock



Easily adjust the stitch with the adjustment pin on the front of the arm. (LY2-3750/LY3-6840)

Easy-maintenance automatic lubrication system



Automatic lubrication system eliminates the need for manual oiling. A pump feeds oil in the oil tank to the required sections, improving sewing machine durability. (LY2-3750/LY3-6840)

Built-in detector for highly accurate positioning



Needle stop UP and DOWN positions can be adjusted separately with a single touch. The normal state can be confirmed easily via indicator lamps. (LY2-3750/LY2-3310/LY3-6840)

Presser foot lifter lever with forward-facing arm



Presser foot lifter lever is on the front of the arm to improve operation ease. (LY2-3750/LY3-6840)

Touch back switch



Quick return with a light touch. Needle lifting and correction stitching are also possible. (LY2-3750/LY2-3310/LY3-6840)

T-shaped table legs for standing/sitting operation

Control panel has many functions for standing operation. (thread trimming type)

Powerful, high-performance Limiservo X-G Series

- Simple sequence function built-in.
- Inserting and removing fabrics made easy with reverse-run needle lifting function.

User-friendly functions

Personal computer interface

- Setting data can be managed using setup software such as batch import, export and saving settings. (XCG_SET)
- Step sequences can be created and edited with dedicated step sequence software. (XCG_STEP)

Single-needle lockstitch:
Vertical feed

LY2-3750-B1T



Single-needle lockstitch:
Vertical feed

LY2-3300-B0B



Single-needle lockstitch:
Vertical feed

LY2-3310-B1T



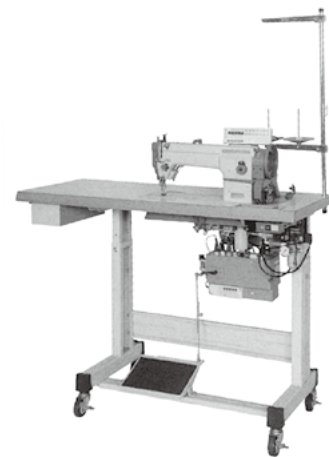
	Lockstitch		
Model	LY2-3750-B1T	LY2-3300-B0B	LY2-3310-B1T
Stitch type	Single-needle lockstitch		
Application	Thick fabrics		
Maximum speed	2,000rpm		
Maximum stitch length	8mm		
Presser rise amount (manual)	6mm		
Presser rise amount (knee)	16mm	13mm	
Needle	DP×17 #22 (DB×1 #22)		
Hook	Vertical full-rotation double-hook		
Needle bar stroke	38mm	35mm	38mm
Thread trimmer	○	—	○
Touch back	○	—	○
Lubrication method	Automatic lubrication	Lubrication method	
Vertical foot alternating rate	2 - 5mm (dial)	2 - 5mm (long groove adjustment)	
Bed shape	Flat bed	Flat bed	
Underarm space length	335mm	275mm	275mm
Bed dimensions	517×178mm	475×178mm	475×178mm
Weight	34kg	29kg	32kg

Notes 1. The weight applies only to the sewing machine.
2. Operation caution labels are attached to the sewing machine body.

Product Specifications

Single-needle lockstitch: Vertical feed (long arm)

LY2-3319-B1T



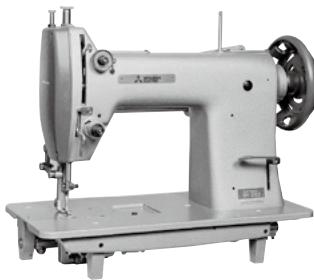
Single-needle lockstitch: Vertical feed (cylindrical high-long arm)

LY3-6840-B0T



Single-needle lockstitch: Vertical feed

DY-253-00



Legend DD DD Direct drive Thread trimmer Twin-needle Hook Underarm space

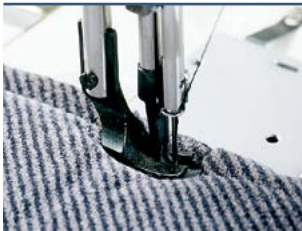
Vertical Feed			
	LY2-3319-B1T	LY3-6840-B0T	DY-253-00
		Single-needle lockstitch	
	Heavy	Thick fabrics	Thick to extra-thick materials
	2,000rpm	2,000rpm	1,200rpm
	8mm	7mm	12.7mm
	6mm	6mm	12.7mm
	13mm	15mm	
	DP×17 #22 (DB×1 #22)	DP×17 #22 (DB×1 #22)	DD×1 #25
			Vertical full-rotation, large hook #32
	38mm	38mm	50.8mm
	○	—	—
	○	○	—
		Automatic lubrication	Drip lubrication
		2 - 5mm (dial)	6.4mm
		Cylinder bed (cylinder diameter: 47mm)	Flat bed
	332mm	335mm	256mm
	517×178mm	—	520×250mm
	34kg	39kg	49kg

General-feed sewing machines are ideal for stitching various thick materials such as that used for car seats, bags and sofas. This high-function model incorporates a long arm while retaining presser foot interchangeability.

A short thread trimmer has been newly added to the car seat (CS) specifications of the general-feed machine, which is popular for stitching thick materials. Stable stitching tension, adjustable down position using the built-in detector and improved maintenance features are powerful functions that simplify operation. Sewing machine operation and stitching performance are further improved with the new LIMISERVO X-G Series.



Car seat (CS) specifications lineup available



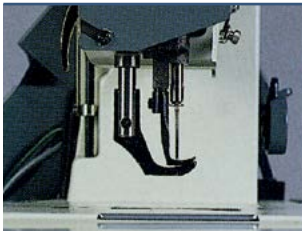
CS specifications have been added to the car seat stitching lineup. The balance stroke and feed motion have been changed and seat stitching quality has been further improved.

Stable thread trimming from thin to thick threads



A moving knife and fixed knife that move linearly in parallel with the feed gear are used to cut thin to thick threads (#8) with a clean cut.

Reverse-run needle lifting function (using LIMISERVO X)



After the thread is trimmed, the sewing machine's reverse run function prevents the needle from protruding from the presser foot and allows the presser foot to rise 16mm. Thick materials can be inserted and removed easily.

Double-hook and maximum stitching speed achieve 3,000 stitches/min

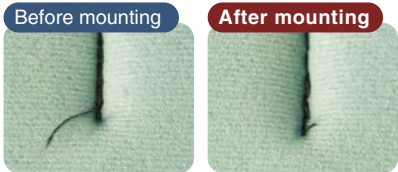


With the improved needle bar vibration mechanism, balance mechanism and upper vertical feed mechanism, machine can do up to 3,000 stitches/min even when using a double-hook. (Only LU2-4652)

Short thread trimmer (LU-ST-KIT)

Only a short piece of thread is left after trimming, so there's no need to pick off threads.

Stitching sample



* Option for LU2-4410 Series; standard for LU2-4652 Series.

Touch back switch with release function

Touch back function can be released just simply turning the button (LU2-4410/LU2-4430).

Stitch adjustment dial with lock

Accurately prevent problems like changing stitch length during sewing.

Automatic presser foot lifter

Easy to setup
*Option for LU2-4400 Series; built-in for LU2-4652 Series.

User-friendly functions

Personal computer interface

- Setting data can be managed using setup software such as batch import, export and saving settings. (XCG_SET)
- Step sequences can be created and edited with dedicated step sequence software. (XCG_STEP)

Product Specifications

Twin-needle lockstitch:
General feed

LU5-5720-B0T



Single-needle lockstitch:
General feed

LU2-4652-B1T



Single-needle lockstitch:
General feed

LU2-4400-B0B



Single-needle lockstitch:
General feed

LU2-4410-B1T-CS



Twin-needle lockstitch:
General feed

LU2-4420-B0B



Twin-needle lockstitch:
General feed

LU2-4430-B1T



Single-needle

LU2-4710-B1T



Double-needle

LU2-4730-B1T



Legend DD DD Direct drive Thread trimmer Twin-needle Hook Underarm space

	Lockstitch General Feed								
Model	LU5-5720-B0T	LU2-4652-B1T	LU2-4400-B0B	LU2-4410-B1T-CS		LU2-4420-B0B	LU2-4430-B1T	LU2-4710-B1T	LU2-4730-B1T
Stitch type	Twin-needle lockstitch	Single-needle lockstitch				Twin-needle lockstitch		Single-needle	Double-needle
Application	Thick fabrics			Car seat		Thick fabrics		Heavy material	
Maximum speed	2,000rpm	3,000rpm	2,000rpm				3,000rpm	2,500rpm	
Maximum stitch length	9mm	8mm	9mm				0 - 9mm		
Presser rise amount (manual)	9mm		8mm				9mm		
Presser rise amount (knee)	16mm						16mm		
Needle	DP×17 #21	DP×17 #21	DP×17 #23	DP×17 #21		DP×17 #23		DP×17 #23	
Hook	Horizontal full-rotation doubl-hook						Horizontal full-rotating Large		
Needle bar stroke	37mm	35mm	36mm	35mm		36mm		36mm	
Thread trimmer	—	○	—	○		—	○	○	
Touch back	○	○	—	○		—	○	○	
Lubrication method	Semi-automatic lubrication	Automatic lubrication							
Needle width (standard)	7.9mm	—				6.4mm		3.2/6.4mm	
Needle width (special)	9.5mm	—				3.2/4.0/4.8/8.0/9.5/12.7/16.0/19.0/25.4mm		12.7/19.0/25.4mm	
Top-feed foot alternating rate	1 to 7mm	2 - 6mm (dial)	2 - 6mm				2 - 6mm (dial)		
Bed shape	Post bed (post height: 178mm)	Flat bed							
Underarm space length	297.5mm	310mm	250.5mm						
Bed dimensions	567 × 177mm	517×178mm	517×178mm						
Weight	65kg	43kg	33kg	36kg		34kg	37kg	47kg (sewing machine head)	

Notes 1. The weight applies only to the sewing machine.
2. Operation caution labels are attached to the sewing machine body.

Stable basting quality and improved operation ease.

One-stitch stitching, continuous stitching continuous variable stitching, etc.
Complete basting work quickly and efficiently.

LX2-630-M1 Features

Stable basting quality and improved operation ease!

Horizontal thread trimming mechanism for basting

A horizontal thread trimming mechanism for basting is mounted, enabling thread tension adjustment and work efficiency to be increased.

Horizontal hook and needle plate with needle guide

Horizontal hook and needle plate with needle guide prevent stitches from being skipped when using thin threads

Easy basting of thick materials

The presser foot can be lifted 15.5mm (after trimming), making it easy to baste thick materials.

Highly efficient work

Highly efficient work is possible with continuous variable stitching, single-needle stitching and more.

LX5-871-M0 Features

Freely switch between one-stitch stitching and continuous stitching simply by operating the pedal.
Quickly and efficiently complete basting work.

Start/Stop sewing machine using pedal method

Easily perform one-stitch stitching and continuous stitching using the pedal.

Stitch from thin to thick materials

This model supports a wide range of materials.

Quiet operation guarantee

The electronic control method fully utilizes the features of the LIMISERVO X G motor.

Post bed [LX5-871-M0]

Sewing machine is ideal for processes such as attaching round collars, shoulders and sleeves.

Cushioning rubber mounted on presser bar and needle bar

The vertical moment impact of the presser bar is absorbed by the cushioning rubber.

Set position stop mechanism

The LIMISERVO X G motor (basting function) accurately stops the needle bar at the set position.

Spacious 16mm presser foot lift range

Even thick articles such as shoulder pads can be moved and stitched easily.

Common features

Operation box (option)

Choose from a variety of stitching patterns.

Reliable, popular all-digital servo

- True maintenance-free operation realized with no wear sections.
- Complete energy-saving, low-noise and noise-reducing design.

Powerful, high-performance Limiservo X-G Series

- Simple sequence function built-in.
- Inserting and removing fabrics made easy with reverse-run needle lifting function.
- Needle dropping position can be accurately determined by stopping just before fabric function.

Variable stitch lever

- Lever can be mounted on the side of the control panel.
- Easily separate from the panel.
- Easily mount the pedal for a standing sewing machine.

User-friendly functions

Personal computer interface

- Setting data can be managed using setup software such as batch import, export and saving settings. (XCG_SET)
- Step sequences can be created and edited with dedicated step sequence software. (XCG_STEP)

Product Specifications

Single-needle lockstitch: Basting

LX2-630-M1



Single-needle lockstitch: Basting

LX5-871-M0



Legend DD DD Direct drive Thread trimmer Twin-needle Hook Underarm space

Model	Basting	
	LX2-630-M1	LX5-871-M0
Stitch type	Single-needle lockstitch	
Application	Thin to medium thickness fabrics	
Maximum speed	800rpm	650rpm
Presser rise amount (manual)	15.5mm	16mm
Needle	MT×190 #14	MT×190 #16
Hook	Horizontal full-rotation hook	
Needle bar stroke	39mm	35mm
Bobbin winder	○	—
Thread trimmer	○	—
Bed shape	Flat bed	Post bed (post height: 178mm)
Underarm space length	259.5mm	261mm
Bed dimensions	517×178mm	
Weight	29kg	33Kg

Notes 1. The weight applies only to the sewing machine.
2. Operation caution labels are attached to the sewing machine body.