

1-needle, Unison-feed, Lockstitch Machine with a Vertical-axis Large Hook

LU-1508

LU-1508H (for extra heavy-weight materials)

LU-1510 (with an automatic lubricating mechanism)

LU-1510-7 (with an automatic lubricating mechanism and an automatic thread trimmer)

- The new mechanism with a rectangular feeding motion promises consistent feed of materials of all thickness without stitch gathering.

The lower orbit of the feed dog prevents the material from flopping and reduces operating noise and vibration.

- **Rectangular feed** LU-1508, LU-1510, LU-1510-7

Compared with the elliptical feed, the rectangular feed helps reduces gathered stitches.

- **Complete rectangular feed** LU-1508H

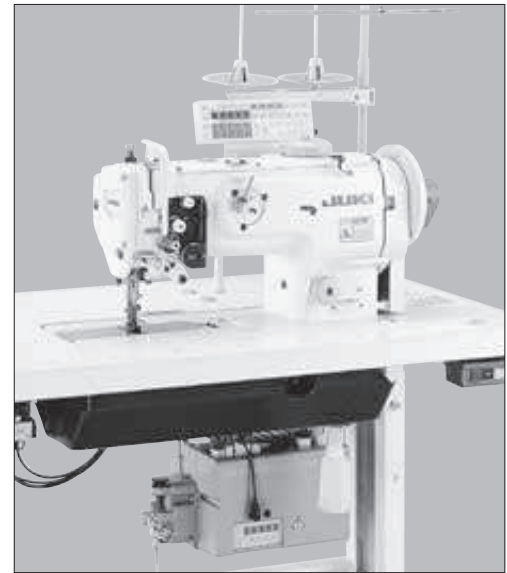
The locus of the "needle" and "feed" motions are nearly rectangular. This prevents stitch gathering and provides efficient feed on multi-layered portions of material.

- With the adoption of a new rectangular feed mechanism, an alternating vertical movement mechanism, and a unison-feed mechanism, the machine can feed heavy-weight materials powerfully and smoothly. Well tensed seams are consistently produced without pitch errors.

- Even when a heavy-weight material is used, the presser foot lift does not decrease. This means that the presser foot comes into contact with the material at exactly the same time that it does when sewing lighter-weight sections of the material. As a result, the walking foot retains the material with a consistent pressure to prevent irregular stitches.

- **LU-1508H**

- The maximum stitch length is 10mm. The complete rectangular feed locus enables accurate feed of extra heavy-weight materials while preventing stitch gathering.
- With its sufficient needle bar stroke of 38mm and long 190R needle, the machine supports the sewing of extra heavy-weight materials.
- The machine comes with an extra large steel handwheel with a diameter as large as • 175.



LU-1510-7-0BB/XC-E500

- **LU-1510, LU-1510-7**

- The machine is equipped with a bottom-feed adjusting mechanism that adjusts the amount of bottom-feed while keeping the needle-feed fixed. With the mechanism, the machine can prevent uneven material feed without changing stitch pitches.
- Automatic lubricating mechanism improves maintainability. The machine is provided with a sub oil pan and double filter to keep dust from entering the oil.

- **LU-1510-7**

- The machine comes with JUKI's proven thread trimming mechanism. With its robust knife and cam configuration, the thread trimmer reliably cuts threads as thick as #5.
- The vertical strokes of presser foot and walking foot (their alternating vertical movement) can be easily changed using a large dial mounted on the top surface of the machine head.
- In addition the sewing speed is automatically adjusted with the set value. With this feature, ideal sewing conditions are maintained at all times.

WHEN YOU PLACE ORDERS

- **Without an automatic thread trimmer**

LU-1508 ☐ LU-1510

Application	Code
Standard	
For extra heavy-weight materials	H

- **With an automatic thread trimmer**

LU-1510-7-0B ☐

Pneumatic auto-lifter	Code
Knee switch type (AK119A)	A
Pedal switch type (AK119B)	B
Not provided	

- **Motor for SC**

M ☐ ☐

Motor			Code
For General Export	Single-phase 3-phase	200• 240V	60
For JUS (LA)•	Single-phase 3-phase	100• 120V 200• 240V	61 62
For CE	Single-phase	200• 240V	63

- **PSC box/control panel for SC**

SC-380- ☐ ☐ - ☐ ☐ ☐ ☐ ☐

PSC box			Code
For General Export	Single-phase	220• 240V	07
	3-phase	200• 220V	11
For JUS (LA)•	Single-phase	110• 120V	37
	3-phase	220• 240V	38
For CE	Single-phase	220• 240V	34

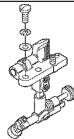
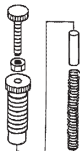
Control panel		Code
Not provided		00000
Control panel display language: English. Instruction manual comes in three different languages.		E500B
Control panel display language: English. Instruction manual comes in five different languages.		E500C

• JUS: North America and Central and South America.


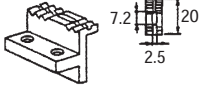
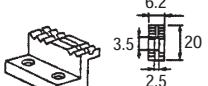



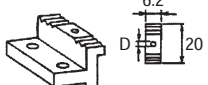



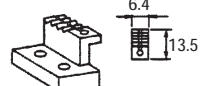
SPECIFICATIONS

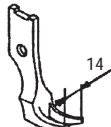



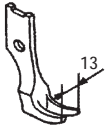


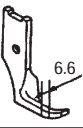

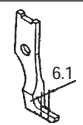

Model name	LU-1508	LU-1508H	LU-1510	LU-1510-7
Application	For heavy-weight materials	For extra heavy-weight materials	For heavy-weight materials	
Max. sewing speed	2,500rpm	2,000rpm	2,500rpm	3,000rpm
Max. stitch length	9mm (normal/reverse feed)	10mm (normal/reverse feed)	9mm (normal/reverse feed)	
Needle bar stroke	36mm	38mm	36mm	
Lift of the presser foot	By hand: 9mm, By knee: 16mm (max)			
Alternating vertical movement	2.5• 6.5mm			1• 6.5mm
Dial for adjustment of alternating vertical movement	• •			Provide as standard
Thread take-up	Slide type			
Hook	Vertical-axis double-capacity hook			
Needle (at the time of delivery)	135• 17 (Nm160) Nm125• Nm180 DP• 17 #23	Standard 190R or 135• 17 (Nm160) Nm125• Nm180 MT190 #23	135• 17 (Nm160) Nm125• Nm180 DP• 17 #23	
Thread	#30~#5, B46• B138 Nm=60/3• 20/3	#20~#1, B69• B207 Nm=40/3• 15/3	#30~#5, B46• B138 Nm=60/3• 20/3	
Feed dog motion	Rectangular	Complete rectangular	Rectangular	
Feed differential	•	•	• Provided as standard •	
Handwheel	Large, aluminum	Extra large, steel	Large, aluminum	
Pitch changing method	By dial			
Bobbin winder	Built on the machine head			
Knee-lifter mechanism	Built on the machine head			
Safety mechanism	Provided as standard			
Lubrication	By an oiler (hook: automatic)		Automatic	
Lubricating oil	JUKI New Defrix Oil No.1 (equivalent to ISO VG7)			
Distance from needle to machine arm/Bed size	255mm/517mm• 178mm			
Weight of the machine head	42.5kg	44.5kg	43kg	48kg
One-touch type reverse feed function	Option			Provided as standard
Compressed air and air consumption	• •			0.5MPa (5kgf/cm ²), 0.3Nℓ/min
Power requirement	• •			Single-phase 110• 120V, 220• 240V 3-phase 200• 220V, 220• 240V



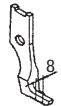


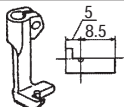
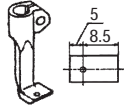
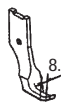



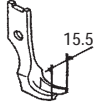





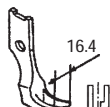

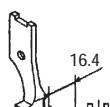

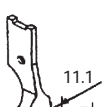

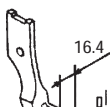



OPTIONS

Model	Part No.	Description		Feature
AK119A	GAK-A19010A0	Knee switch type	Pneumatic auto-lifter	Applicable model: LU-1510-7
AK119B	GAK-A19010B0	Pedal switch type		
AK120A	GAK-A20010A0	Knee switch type	Pneumatic auto-lifter (provided with an air regulator)	Applicable model: LU-1508, LU-1508H, LU-1510
AK120B	GAK-A20010B0	Pedal switch type		
• •	213-48552	Pneumatic one-touch type reverse feed stitching device (provided with an air regulator)		Applicable model: LU-1508, LU-1508H, LU-1510 • To use an auto-lifter and reverse feed stitching device in combination, select AK119A or AK119B
H152	MAH-152010A0	Suspended ruler		
	SS-7151610-SP• 2			
	WP-0621016-SD• 2			
	WP-0610002-KN• 2			
• •	MAY-BL6B10A0	Core dia. 6• 10mm	Piping holder	• •
	MAY-BL6B20A0	Core dia. 2• 5mm		
PK75	• •	3-pedal unit		Applicable model: LU-1510-7 Highly operable 3-pedal unit for standing work.
• ••	210-06507	Additional spring for presser bar		
	NS-6110530-SP			
	210-06408			
	210-16101			
	210-06002• 3			

EXCHANGEABLE GAUGE PARTS

Description	Throat plate	Feed dog	Notes
Lower fittings standard (equipped on machine)	B1109-563-000 (area: 33.2 • 6.6) 	213-49303 (needle hole: 2.5 • 7.2) (groove in front and back) 	Equipped on LU-1508, LU-1508H, LU-1510 Stitch length up to 9mm (10mm in case of LU-1508H)
		213-49204 (needle hole: 2.5 • 8.5) (groove in front and back) 	Equipped on LU-1510-7 Stitch length up to 9mm
Lower fittings standard	B1109-053-00A (area: 31.7 • 6.6) 	B1613-563-000 (needle hole: 2.5 • 7.2) (groove at back) 	Equipped on LU-563N Stitch length up to 9mm Not applicable to LU-1510-7
Lower fittings (no groove)		B1613-053-000 (needle hole: 2.5 • 7.2) (No groove) 	Stitch length up to 9mm Not applicable to LU-1510-7
Lower fittings for thin needle		B1613-563-B00 (needle hole: • 2.4) B1613-053-B00 (needle hole: • 1.9) 	Stitch length up to 9mm Not applicable to LU-1510-7
Fitting for piping	B1109-562-A00 (area: 31.7 • 8.8) 	B1613-562-A00 (needle hole: • 2.5 • 8) 	Stitch length up to 9mm Not applicable to LU-1510-7
Lower fittings for tape binding	B1109-563-C00 (area: 30.2 • 6.8) 	B1613-563-C00 (needle hole: • 2.5) 	Stitch length up to 7mm Not applicable to LU-1510-7

Description	Presser foot	Walking foot	Notes
Upper fittings standard	B1525-241-HA0 	B1470-241-H00 (width: 6.2, needle hole: • 2.8) 	Equipped on LU-1508, LU-1508H LU-1510, LU-1510-7 Stitch length up to 10mm
		D1470-241-E0A (width: 6.2, needle hole: • 2.8) (front-open) 	Stitch length up to 10mm
		213-50004 (width: 6.2, needle hole: • 2.8) (with groove, teeth at the toe) 	Stitch length up to 10mm Suitable for thick thread.
	B1525-053-0A0 	B1470-053-000 (width: 4.5, needle hole: • 2.8) 	Stitch length up to 10mm.
		B1470-053-C00 (width: 4.5, needle hole: • 2.3) 	Stitch length up to 10mm
Upper fittings left handed	B1524-245-0A0 (width: 9.6mm) 	B1470-245-000 (width: 6, needle hole: • 2.2) (front-open) 	Stitch length up to 6mm
	B1529-245-0AC (width: 7.7mm) (with groove) 	B1476-245-00C (width: 5.7, needle hole: • 2.3) (with teeth) 	Stitch length up to 6mm

Description	Presser foot	Walking foot	Notes
Upper fittings left handed	B1529-245-0AD (width 6.7mm) (with teeth) 	B1476-245-00D (width 4.1, needle hole: • 2.6) (with teeth) 	Stitch length up to 8mm
	B1525-563-SAD (width 9.4mm) (with teeth) 	103-38309 (width 4.5, needle hole: • 2.2) (with teeth at the toe) 	Stitch length up to 10mm
Upper fittings for binding	MAQ-093080A0 (width 17mm) (with teeth) 	MAN-10452000 (width 13.5, needle hole: • 2.5) (with teeth at the toe) 	Stitch length up to 10mm
		MAQ-09307000 (width 13.5, needle hole: • 2.5) 	Stitch length up to 10mm
	MAQ-092080A0 (width 13.5mm) (with teeth) 	MAQ-09207000 (width 10, needle hole: • 2.5) 	Stitch length up to 10mm
Upper fittings right handed	B1529-245-00A (width 9.5mm) (with teeth) 	B1476-245-00A (width 5.5, needle hole: • 2.6) (with teeth) 	Stitch length up to 8mm
Upper fittings wide	B1525-563-E00 	B1470-563-E00 (width 10, needle hole: • 2.5 • 5) 	Stitch length up to 10mm
	103-25157 	103-25306 (width 8, needle hole: • 2.3) 	Stitch length up to 10mm
	103-26304 	103-26205 (width 8, needle hole: • 2.3) 	Stitch length up to 6mm
Upper fittings for piping	B1530-245-0A • *• •[D, F, H, K] 	B1478-245-000 (width 4.5, needle hole: • 2.1) (universal, regardless of size) 	Stitch length up to 8mm Selection of presser foot: C : 4.0mm (5/32") D : 4.8mm (3/16") F : 6.4mm (1/4") H : 7.9mm (5/16") K : 9.5mm (3/8")
	B1527-245-00 • *• •[C, D, F, H, K] 	B1474-245-00 • *• •[D, F, H, K] (width 13, needle hole: • 2.4) (with teeth) 	Stitch length up to 8mm Selection of presser foot: C : 4.0mm (5/32") D : 4.8mm (3/16") F : 6.4mm (1/4") H : 7.9mm (5/16") K : 9.5mm (3/8")
	B1525-245-0A • *• •[D, F, H, K] (width 16.6mm) (with teeth) 	B1472-245-00 • *• •[D, F, H, K] (width 8.2, needle hole: • 2.7) (with teeth) 	Stitch length up to 8mm Selection of presser foot: D : 4.8mm (3/16") F : 6.4mm (1/4") H : 7.9mm (5/16") K : 9.5mm (3/8")
Upper fittings for piping (back cut)	B1531-245-0A • *• •[D, F, H] 	B1479-245-00 • *• •[D, F, H] (width 5.9, needle hole: • 2.4) 	Stitch length up to 8mm Selection of presser foot: D : 4.8mm (3/16") F : 6.4mm (1/4") H : 7.9mm (5/16")
Upper fittings for piping (double groove)	B1528-245-00 • *• •[B, D, F, H, K] 	B1575-245-00B (width 4.5, needle hole: • 2.1) (universal, regardless of size) 	Stitch length up to 8mm Selection of presser foot: (width) B : 3.2mm (1/8") -19.0mm D : 4.8mm (3/16") -19.0mm F : 6.4mm (1/4") -19.0mm H : 7.9mm (5/16") -24.0mm K : 9.5mm (3/8") -22.5mm