

High-speed, Cylinder-bed,
Top and Bottom Coverstitch Machine

JUKI®

MF-7800 series

MF-7822 (2-needle, top and bottom coverstitch machine)

MF-7823 (3-needle top and bottom coverstitch machine)



MF-7823U10B56



MF-7823K10B56



MF-7823U10B56



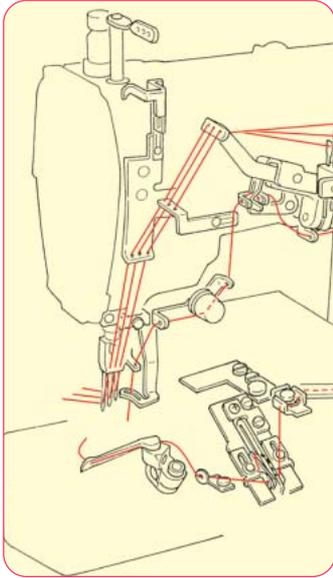
MF-7823K10B56

MF-7800 series

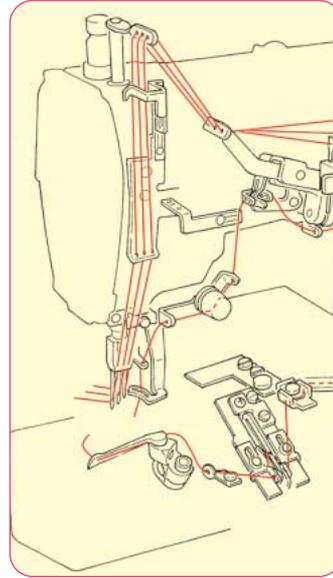
The machine produces seams, which match materials and thread with consistency.

Seams can be adjusted depending on the application or material by changing the thread path or adjusting the thread tension controller, to produce soft and low-tensed seams for inner wear or to produce high-grade well-tensed seams for outer wear.

Soft-seam



Well-tensed seam

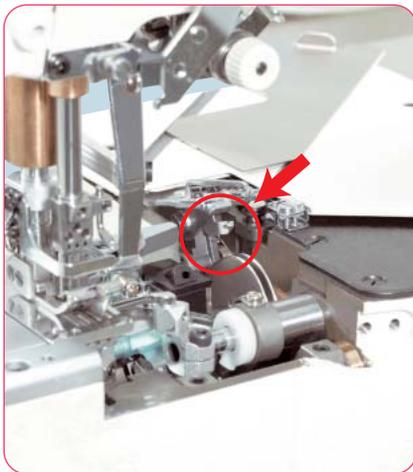


Optimization of the thread take-up mechanism and top covering thread path route

The optimized thread take-up mechanism and top covering thread path route contribute to an increased stability of top covering stitches. In addition, the machine is capable of performing sewing with a low tension applied to the thread to offer improved responsiveness to the sewing thread.

Simple maintenance mechanism

The machine is provided with a variety of functions, which have been developed in consideration of production sites. The mechanisms can be easily maintained, contributing to increased production efficiency.



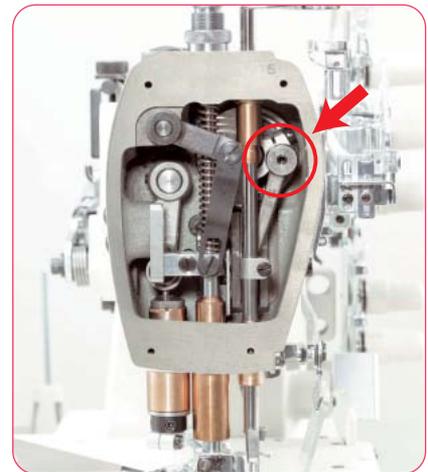
Looper thread twining prevention mechanism

The looper thread cam comes provided with a thread twining prevention mechanism. Even if the thread twines around the looper thread cam, the cam can be easily detached for removal of the thread.



Looper shaft thread tangling prevention mechanism

The end face of the looper cam and the looper thread bushing overlap so as to prevent looper thread from tangling in the looper shaft. The prevention mechanism also protects the oil seal from breakage.



Needle bar stroke conversion mechanism

The needle bar stroke can be increased by changing the position of the eccentric pin to smoothly sew heavy-weight materials. The troublesome replacement of parts, which is conventionally associated with needle-bar-stroke changing work, is no longer required.

(standard setting at the time of delivery: 31mm,
for sewing heavy-weight materials: 33mm)

The machine is applicable to an increased variety of sewing items.

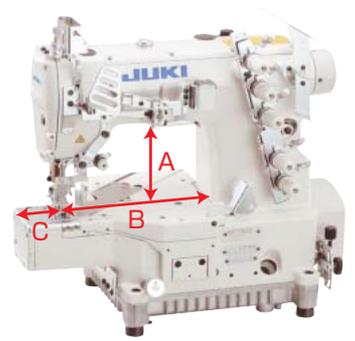
The machine comes with a differential-feed micro-adjustment mechanism and micro-lifter mechanism. With these mechanisms, the machine is able to sew almost all kinds of sewing products, such as foundations, light-weight underwear and heavy-weight fleece, increasing the number of sewing items.

Sewing products are no longer stained with oil.

A forced circulation mechanism has been introduced into the cylinder unit to prevent sewing products from being stained with oil. The mechanism is effective in eliminating oil stains.

Comfortable working space

A longer distance from machine arm to needle helps reduce operator stress during the covering process. In addition, the cylinder, the length of which is ideally suited to the hemming process and offers good operability, helps create a comfortable working space. The machine has been developed to achieve low-noise and low-vibration operation to offer an operator-friendly work environment.



A=120mm B=209mm C=58mm

U10 (universal type)

The machine is a basic model, which can be used, in a broader range of sewing processes, such as the hemming and covering of T-shirts and polo shirts, and the sewing of fleece.



T-shirt

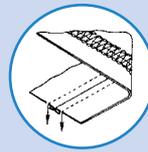


Polo shirt



K10 (covering)

This model is best suited to the covering process for polo shirts, trainers, sportswear, knit outers, etc.



Knitwear



Sweat shirt



H20 (for Hemming with left hand fabric trimmer)

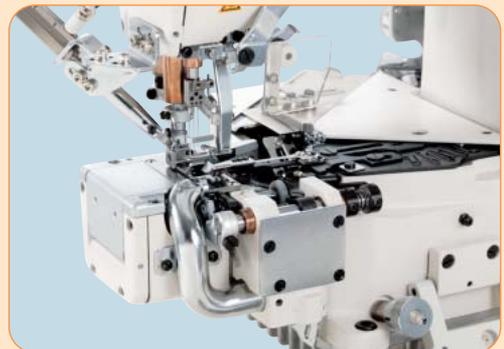
This model is intended for the hemming of knit shirts and T-shirts. The left-hand fabric trimmer promises beautifully finished trimming while preventing the material from flopping around during trimming.



MF-7823H20B56/UT25

Left hand fabric trimmer mechanism

- The upper knife stroke can easily be adjusted according to the material thickness.
- The whole knife driving mechanism unit can be removed. The machine, therefore, can be used for standard hemming without the knife.



Pneumatic cloth chip suction device (optional) MC35 (electromagnetic valve type), MC36 (mechanical valve type)

- Cloth chips trimmed by the fabric-trimmer are sucked away using air. So, there is no risk of sewing cloth chips in seams.
- MC35 (electromagnetic valve type) for the servomotor or MC36 (mechanical valve type) for the clutch motor should be selected according to the use of your machine.



MC35



MC36

LIST OF GAUGE COMPONENTS AND KNIVES

Application	U10			K10	H20	
Model name	MF-7822U10B48	MF-7823U10B56	MF-7823U10B64	MF-7823K10B56	MF-7823H20B56	MF-7823H20B64
Needle gauge	4.8mm	5.6mm	6.4mm	5.6mm	5.6mm	6.4mm
Needle clamp	13350509	13350301	13350400	13350301	13350301	13350400
Throat plate	13354709	13354808	13351200	13352307	13445200	13445309
Presser foot asm.	13376058	13375050	13375050	13375050	13467758	
Main feed dog	13431200	13431200	13430103	13430707	13431101	
Differential-feed dog	13433503	13433503	13432109	13432901	13433404	
Upper knife	—	—	—	—	13461801	
Lower knife	—	—	—	—	13460803	

* Commercially available gauge components and knives can be used with no additional work.



DEVICE AND ATTACHMENT

UT25 (pneumatic top and bottom thread trimming device with auto-lifter)

Since the automatic lift of the presser foot and automatic thread trimming can be activated by lightly depressing the pedal, work efficiency is dramatically increased.



MF-7823U10B56/UT25



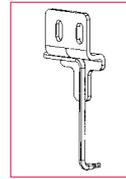
Pneumatic top and bottom thread trimming mechanism



① Presser lifter drive mechanism
② Thread trimmer drive mechanism

By using an air blow type needle thread wiper nozzle (included in the accessory box), the needle thread can be finished at the time of thread trimming for bottom coverstitch.

No.134-42058

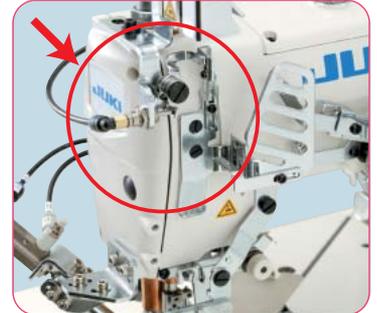
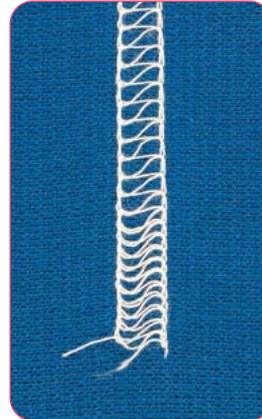


SS10 (short stitch device)

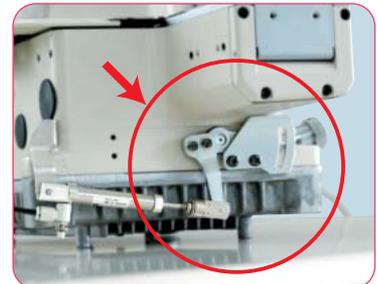
When the back part of the pedal is depressed, the machine performs short stitching to sew a preset number of stitches before thread trimming and presser foot lifting. Thread fraying at the end of sewing in hemming processes, etc. can be prevented by sewing short stitches.



MF-7823U10B56/UT25/SS10



The needle thread tightening mechanism helps produce well-tensed seams even when the machine performs short stitching.



The short stitch pitch can be adjusted with ease.

MF-7800 SUBCLASS MACHINES	 Seams	 Model No.	 Number of needles	 Number of threads	 Needle gauge (mm)	 Stitch length*1 (mm)	 Differential-feed ratio*2	 Presser lifting amount*3 (mm)	 Max. sewing speed (rpm)
U10 Basic stitch (universal type)		MF-7822-U10-B48	2	4	4.8	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500
		MF-7823-U10-B56	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500
		MF-7823-U10-B64	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500
		MF-7823-U10-B56/UT25	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500*4
		MF-7823-U10-B64/UT25	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500*4
		MF-7823-U10-B56/UT25/SS10	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500
		MF-7823-U10-B64/UT25/SS10	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500
K10 Covering		MF-7823-K10-B56	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500
		MF-7823-K10-B56/UT25	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	6,500*4
H20 Hemming		MF-7823-H20-B56	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B64	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B56/MC36	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B64/MC36	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B56/UT25	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B64/UT25	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B56/UT25/SS10	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B64/UT25/SS10	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B56/UT25/MC35	3	5	5.6	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500
		MF-7823-H20-B64/UT25/MC35	3	5	6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5(8)	5,500

*1 Stitch length can be adjusted to 4.5mm at the maximum.

*2 Differential ratio can be switched by adjustment.

*3 The numeric value indicates the lifting amount of the presser foot for top and bottom coverstitch.

The numeric value given in parentheses indicates the lifting amount of the presser foot for bottom coverstitch.

*4 The maximum sewing speed is less than 5,500rpm when using SC-500/M50.

WHEN YOU PLACE ORDERS

Please note when placing orders, that the model name should be written as follows:

[without automatic thread trimmer]

MF78 □ □ □ □ **B** □ □ / □ □ □ □

Stitch type	Code	Application	Code	Tonque shape of throat plate	Code	Needle gauge	Code	Device and attachment	Code
2-needle, top and bottom coverstitch	22	For universal	U10	B type (standard)	B	4.8mm	48	Not provided	
3-needle, top and bottom coverstitch	23	For covering	K10			5.6mm	56	Pneumatic cloth chip suction device (mechanical valve type)	MC36
		For Hemming (with left hand fabric trimmer)	H20			6.4mm	64		

* For model code 23 (3-needle), needle gauge code 40 cannot be selected.

[with automatic thread trimmer]

MF7823 □ □ □ **B** □ □ / **UT25** / □ □ □ □

Stitch type	Code	Application	Code	Tonque shape of throat plate	Code	Needle gauge	Code	Thread trimming device	Code
3-needle, top and bottom coverstitch	23	For universal	U10	B type (standard)	B	5.6mm	56	Pneumatic top and bottom thread trimming device	UT25
		For covering	K10			6.4mm	64		
		For Hemming (with left hand fabric trimmer)	H20						

Device and attachment	Code
Not provided	
Short stitching device (pneumatic type)	SS10
Pneumatic cloth chip suction device (electromagnetic valve type)	MC35

Control box / Motor

Thread trimming device Device and attachment	Control box / Motor	
	SC-500/M50	SC-510/M51
UT25	○	○
UT25/SS10	—	○
UT25/MC35	—	○
UT25/SS10/MC35	—	○

* The maximum sewing speed is less than 5,500rpm when using SC-500/M50.

* Select SC-510/M51 for the machines destined for the North America and South and Central America.

PSC box

SC500 □ **F**

PSC box				Code	Control box	Code
For General Export	Single-phase	200~240V	PFL	K	Standard	F
For EU (CE)	Single-phase	200~240V	PFL	N		
For China	Single-phase	200~240V	PFL	U		

Motor for SC

M50KQ41

Power supply		Code	Pulley belt			Code
Single-phase	200~240V	K	Applicable model	Motor pulley O.D.(mm)	Belt length (inch)	
			MF-7800/UT25	110	41	Q41

* Be sure to use the belt supplied with the machine head.

PSC box

SC510 □ **S**

PSC box				Code	Control box	Code
For JUS*(LA)	Single-phase	100~120V	PFL	S	Standard	S
For JUS*, General Export	3-phase	200~240V	PFL	D		
For General Export	Single-phase	200~240V	PFL	K		
For EU (CE)	Single-phase	200~240V	PFL	N		
For China	Single-phase	200~240V	PFL	U		

* JUS: North America and Central and South America.

● To order, please contact your nearest JUKI distributor.

Motor for SC

M51

Control box / Servomotor SC-510/M51



SPECIFICATIONS

Model name	MF-7822U10B48	MF-7823U10B□□	MF-7823U10B□□UT25	MF-7823K10B56	MF-7823K10B56UT25
Application	For universal			For covering	
Stitch type	2-needle top and bottom coverstitch	3-needle top and bottom coverstitch		3-needle top and bottom coverstitch	
Max. sewing speed	6,500rpm*1				
Stitch length	0.9~3.6mm (stitch length can be adjusted to 4.5mm)				
Differential-feed ratio (switchable)	1:0.9~1:1.8(1:0.6~1:1.1)				
Needle gauge	4.8mm	5.6mm, 6.4mm		5.6mm	
Needle	UY128GAS #9S~#14S (standard #10S)				
Lift of the presser foot	5mm (with top and bottom covering stitch), 8mm (with bottom covering stitch)				
Stitch pitch adjustment	By dial				
Differential feed adjustment	By micro-adjustment mechanism				
Lubrication	Automatic				
Lubricating oil	JUKI Machine Oil 18 (equivalent to ISO VG18)				
Micro-lifter	Provided as standard				
Needle bar stroke conversion mechanism*2	Provided as standard				
Silicon oil tank for needle tip and needle thread	Provided as standard				
Cartridge oil filter	Provided as standard				
Top and bottom thread trimmer	—	Provided as standard (pneumatic type)		—	Provided as standard (pneumatic type)
Auto-lifter	—	Provided as standard (pneumatic type)		—	Provided as standard (pneumatic type)
Compressed air and air consumption	—	Refer to following table*3		—	Refer to following table*3
Weight of the machine head	42kg	44kg		42kg	44kg

*1 The maximum sewing speed is less than 5,500rpm when using SC-500/M50.

*2 Needle bar stroke (standard): 31mm at the time of delivery. Needle bar stroke for heavy-weight materials is 33mm (Note that the maximum sewing speed is 5,500rpm).

*3 Compressed air / Air consumption (with automatic thread trimmer)

Model name	MF-7823H20B□□	MF-7823H20B□□/UT25
Application	For Hemming (with left hand fabric trimmer)	
Stitch type	3-needle top and bottom coverstitch	
Max. sewing speed	5,500rpm	
Stitch length	0.9~3.6mm (stitch length can be adjusted to 4.5 mm)	
Differential-feed ratio (switchable)	1:0.9~1:1.8(1:0.6~1:1.1)	
Needle gauge	5.6mm, 6.4mm	
Needle	UY128GAS #9S~#14S (standard #10S)	
Lift of the presser foot	5mm (with top and bottom coverstitch), 8mm (with bottom coverstitch)	
Upper knife stroke	3~5mm (standard 4mm)	
Stitch pitch adjustment	By dial	
Differential feed adjustment	By micro-adjustment mechanism	
Lubrication	Automatic	
Lubricating oil	JUKI Machine Oil 18 (equivalent to ISO VG18)	
Micro-lifter	Provided as standard	
Needle bar stroke conversion mechanism*1	Provided as standard	
Silicon oil tank for needle tip and needle thread	Provided as standard	
Cartridge oil filter	Provided as standard	
Top and bottom thread trimmer	—	Provided as standard (pneumatic type)
Auto-lifter	—	Provided as standard (pneumatic type)
Compressed air and air consumption	—	Refer to following table*3
Weight of the machine head	42kg	44kg

Device			Air consumption dm ³ /min (ANR)	Compressed air MPa
UT25	Air-blow type wiper	MC35		
○	—	—	0.7	0.5
○	○	—	182	
○	—	○	456	
○	○	○	637	

*1 Needle bar stroke (standard): 31mm at the time of delivery. Needle bar stroke for heavy-weight materials is 33mm.



JUKI CORPORATION HEAD OFFICE

The environmental management system to promote and conduct
 ① the technological and technical research, the development and design of the products in which the environmental impact is considered.
 ② the conservation of the energy and resources, and the recycling, in the research, development, design, distribution, sale and maintenance service of the industrial sewing machines, household sewing machines and industrial-use robots, etc. and in the purchase, distribution and sale of the household commodities including the healthcare products.

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* Specifications and appearance are subject to change without prior notice for improvement.
 * Read the instruction manual before putting the machine into service to ensure safety.
 * This catalog is printed on recycle paper.