

MF-7700D Series

Semi-dry-head, Flat-bed, Top and Bottom Coverstitch Machine

DRY-HEAD TECHNOLOGY

The advanced dry-head technology prevents oil stains.



MF-7723D-U10-B56

A world-
first
feature

Semi-dry-head, Top and Bottom Coverstitch Machine

MF-7700D Series

Semi-dry-head, Flat-bed, Top and Bottom Coverstitch Machine

MF-7700D Series

JUKI's dry-head technology protects sewing products from being stained with oil.

The world's first semi-dry-head top and bottom coverstitch machine has been developed. With the excellent functions inherited from the MF-7700 Series, the MF-7700D is provided with a dry frame mechanism to eliminate the cause of oil stains. Stain removing work or re-sewing work is substantially reduced by protecting sewing products from being stained with oil, thereby improving the quality of finished products.



☐ MF-7700D

Semi-dry-head, Flat-bed, Top and Bottom Coverstitch Machine

☐ MF-7700D/UT31

Semi-dry-head, Flat-bed, Top and Bottom Coverstitch Machine with Electromagnetic Type Top and Bottom Thread Trimming Device

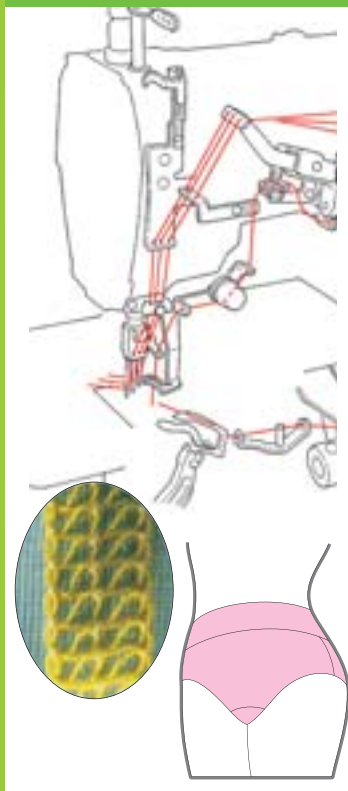
☐ MF-7700D/UT33

Semi-dry-head, Flat-bed, Top and Bottom Coverstitch Machine with Pneumatic Type Top and Bottom Thread Trimming Device

MF-7723D-U10-B56/UT33

It is possible to select (change over) the stitch type according to sewing items.

Soft-seam

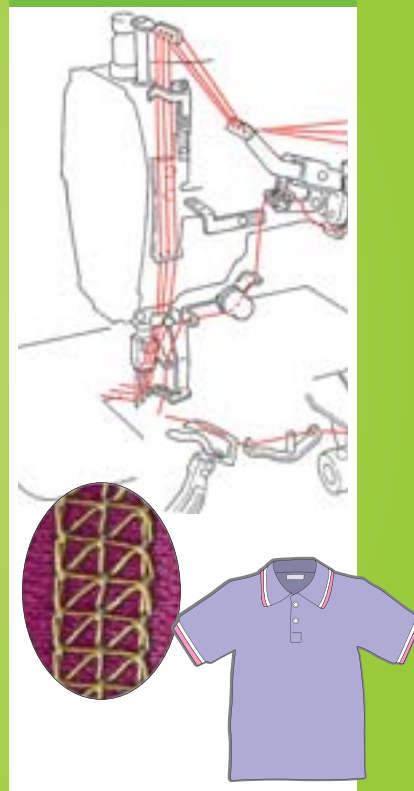


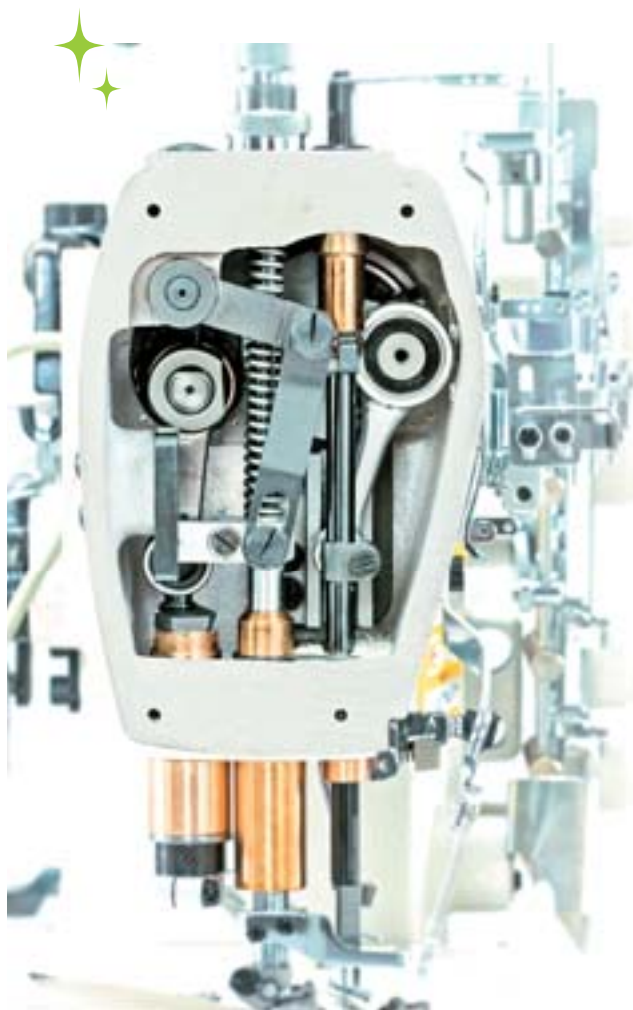
The seam conditions can be changed over according to the application or material, i.e., soft and low-tensed seams for inner wear and high-grade well-tensed seams for outer wear.

Neither the replacement of parts nor the changing of thread tension is required. The stitch type can be changed over (soft-seams/well-tensed seams) simply by changing the thread path.

By reducing the thread tension, beautifully-finished seams and satisfactorily-finished body-fitting products are produced. In addition, the machine has achieved low-vibration and low-noise operation, laying importance on comfort of sewing and ease of handling.

Well-tensed seam





The frame no longer requires oiling.

Unlike the conventional models, the oiling mechanism inside the frame has been eliminated. As a result, oil does not leak from the needle bar, presser bar or spreader shaft.



Dry-head technology has materialized a frame which does not need oiling.

The needle bar mechanism and spreader mechanism have been applied with a special surface treatment. JUKI's unique special grease is used for lubrication. Grease-filled bearings have been adopted for the crank rod. These allow the machine's frame mechanism to demonstrate outstanding durability without being oiled.



Environmental consciousness

Since oil stains on sewing products are reduced, the quantity of the use of stain remover generally used in sewing plants can be reduced.

*Dichlorofluoroethane (HCFC-141), which is generally used in oil stain cleaning fluid, is included in those chemicals which need to be reduced, as it is a substances that can harm the ozone layer.

Simplified maintenance mechanism

The machine comes with diverse and trouble-free functions in consideration of the shop-floor.

MF-7700 and commercially-available gauge components are applicable with no additional work.

As a result of the commonality of components, commercially-available components (presser foot, throat plate and needle clamp) are now applicable and easily obtainable.

Micro-lifter mechanism

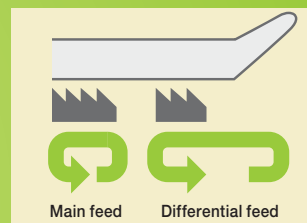
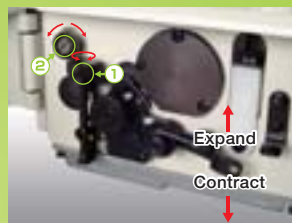
Elastic material or delicate material can be sewn with the presser foot kept slightly raised.

This effectively helps reduce the degree of slippage, warpage and damage of the material.



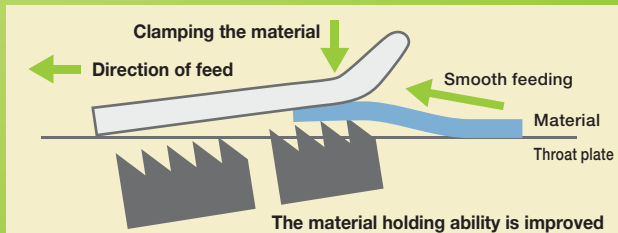
Differential-feed micro-adjustment mechanism ①

It is possible to finely adjust the differential feed amount to a best-suited value for the material to be used. In addition, the differential feed ratio remains the same even when the stitch length is changed.



Feed dog inclination adjustment mechanism ②

The feed dog inclination can be externally adjusted with ease. This adjustment mechanism effectively helps improve the material holding ability of the feed dog and prevent uneven material feed and puckering.



MF-7700D Series

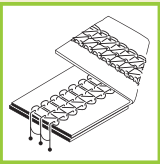
U10 Universal type
(basic type)



T-shirts



Polo shirts



The machine can be used for the hemming process of the sleeves and bottoms of T-shirts and for the covering process for sportswear and knitwear. It is not a specific-purpose model, but a basic one which can be used for a broader range of processes independently.

★C10: Modification to the collarett attaching type model is easily achieved simply by changing the throat plate and feed dog.



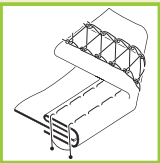
C10 For collarett attaching



Underwear



Briefs



This model is best suited for attaching collarettas on underwear, briefs and knitwear. Ease of use is further improved by using the electromagnetic type tape cutter (TC13).



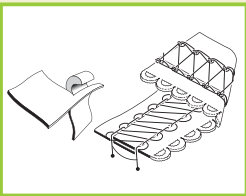
E10 For elastic lace attaching
(with right hand fabric trimmer)



Ladies' inner wear



Shorts














This model is best suited for the sewing of elastic lace in shorts and underwear. The right hand fabric trimmer cuts the multi-layered part of a joined section with outstanding consistency. Beautifully finished products are achieved with the seams and material edges aligned.

The right hand fabric trimmer mechanism's easy installation / removal of the entire unit facilitates the adjustment of related parts, such as the alignment of a looper.



List of subclass machines

Application	Seam	Model No.	 Number of needles	 Number of threads	 Needle gauge (mm)	 Stitch length*1 (mm)	 Differential-feed ratio	 Presser lifting amount*2 (mm)	 Max. sewing speed (sti/min)
U10 Universal type (basic type)		MF-7722D-U10-B□□	2	4	3.2,4.0	1.2~3.6	1:0.7~1:2	5(8)	4,000
		MF-7723D-U10-B□□	3	5	4.8,5.6,6.4				
		MF-7723D-U10-D□□							
		MF-7723D-U10-B□□ /UT31							
		MF-7723D-U10-D□□ /UT31							
		MF-7723D-U10-B□□ /UT33							
		MF-7723D-U10-D□□ /UT33							
U10 4-needle		MF-7724D-U10-D60	4	6	6.0	1.2~2.5 (Max.3.6)	1:0.7~1:2	4	4,000
C10 Collarette attaching		MF-7722D-C10-B□□	2	4	3.2,4.0	1.2~3.6	1:0.7~1:1.1	5(8)	4,000
		MF-7722D-C10-B□□ /TC13							
		MF-7723D-C10-B□□	3	5	4.8,5.6,6.4				
		MF-7723D-C10-B□□ /TC13							
E10 Elastic lace attaching		MF-7722D-E10-B□□	2	4	3.2,4.0	1.2~3.6	1:0.7~1:1	3(6)	4,000
		MF-7722D-E10-B40/MD10			4.0				
		MF-7722D-E10-B40/MD10/TC13							
		MF-7723D-E10-B□□	3	5	5.6,6.4				
		MF-7723D-E10-B□□ /MD10							
		MF-7723D-E10-B□□ /MD10/TC13							

*1 Stitch length can be adjusted to 4.4mm at the maximum.

*2 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.

List of gauges and knives

Type	U10					U10 (4needle)	C10					E10			
Needle gauge	3.2mm	4.0mm	4.8mm	5.6mm	6.4mm	6.0mm	3.2mm	4.0mm	4.8mm	5.6mm	6.4mm	3.2mm	4.0mm	5.6mm	6.4mm
Needle clamp	13350004	13350103	13350202	13350301	13350400	40049609	13350004	13350103	13350202	13350301	13350400	13350004	13350103	13350301	13350400
Throat plate* (tongue shape of throat plate)	B	40058587	40058706	40040514	40040515	40040513	—	40058549	13351408	40057971	13351606	13351705	40058580	13356001	13356209
	D	—	40058956	40060923	40040516	40061463	40049382	40073947	40073948	40073949	40073950	—	—	—	—
Presser foot asm		40058589	40058708	13376058	40082974	40082974	40049394	40058579	40056504	40057973	40056410	40056411	40058591	40018288	40018289
Main feed dog			13354204			13353701		40058555	13353800		13353909	40079714	40079715	40079716	
Differential-feed dog			13358304			13357603		40058556	13357702		13357801	40058582	13358106	13358205	
											Upper knife	40038754			
											Lower knife	40038091			

*For the shape of the throat plate, B type is standard.

The D type throat plate allows the needle thread to stretch moderately.

UT31

Electromagnetic type top and bottom thread trimming device/Auto-lifter

It is an electromagnetic type automatic thread trimming device/auto-lifter.

The machine does not need an air compressor to achieve easy layout changing.



MF-7723D-U10-B56 / UT31



Electromagnetic type top and bottom thread trimming mechanism



1 Presser lifter drive mechanism
2 Thread trimmer drive mechanism

UT33

Pneumatic type top and bottom thread trimming device/ Auto-lifter

It is a pneumatic automatic thread trimming device / 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-7723D-U10-B56 / UT33



Pneumatic type top and bottom thread trimming mechanism

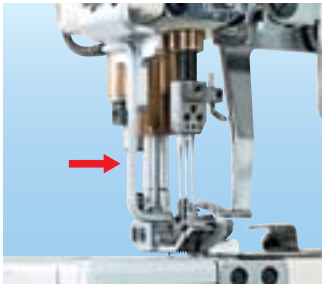


1 Presser lifter drive mechanism
2 Thread trimmer drive mechanism

■ Compressed air / Air consumption (sewing machine with UT33)

By using an air blow type wiper nozzle (supplied as an accessory), the needle thread can be blown upon thread trimming at the end of bottom coverstitching.

Air blow type wiper	Compressed air MPa	Air consumption dm ³ /min (ANR)
-	0.5	0.7
○		182



Air blow type wiper

TC13

Electromagnetic type tape cutter

It is a device for cutting the tape or lace at the beginning or end of sewing. It is easily actuated to cut tape with the knee switch.

- The knife is able to cut lace and tape up to 40mm wide.
- The sharpness of the knife can be easily adjusted. In addition, replacement of the moving knife and counter knife, as well as the adjustment of their mesh, can be carried out with ease.

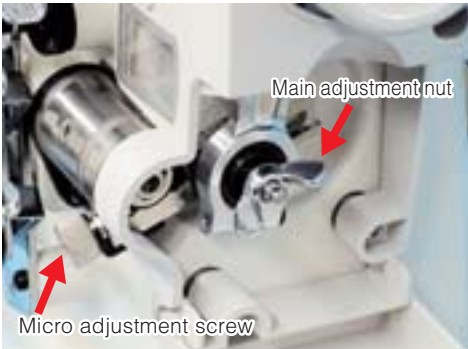


TC13

MD10

Mechanical type metering device

- The metering device supplies a consistent length of tape in synchronization with the feed. (tape lengths: 0.9 to 3.5mm per stitch.)
- Elastic tapes of up to 80mm in width can be used. The tape width can be easily adjusted. For lace of which the width is 15 to 80mm, change the currently-mounted guide with the wider-tape guide that is supplied with the unit as an accessory.
- The drive roller/driven roller can be held open to facilitate tape placement.



Adjustment of the tape feeding amount

Specifications

Model name	MF-7700D Series
Stitch type	3-needle top and bottom covering stitch
Needle	UY128GAS (#10S) #9S ~ #12S
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 (frame: no lubrication)
Lubricating oil	JUKI MACHINE OIL 18 (equivalent to ISO VG18)
Feed dog inclination adjustment	Provided as standard
Micro-lifter	Provided as standard
Needle bar stroke converting function	31mm
Silicon oil tank for needle tip and needle thread	Provided as standard
Cartridge oil filter	Provided as standard
Weight of the machine head	46kg (without device), 49kg (with UT33), 52kg (with UT31)

When you place orders

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

[without automatic thread trimmer]

Stitch type	Code
2-needle, top and bottom coverstitch	22
3-needle, top and bottom coverstitch	23
4-needle, top and bottom coverstitch	24

Tongue shape of throat plate	Code
B type (Standard)	B
D type	D

*For model category "24" (4-needle), tongue shape type D.

Thread trimming device	Code
Not provided	
Mechanical type metering device*1	MD10
Electromagnetic type tape cutter*2	TC13

*1 Specify the MD10 when placing your order.
*2 The TC13 can be retrofitted to the machine.

MF77△△D□△△□△△/□□△△

Application	Code
Universal type	U10
Collarette attaching	C10
Elastic band attaching (with right hand fabric trimmer)	E10

Needle gauge	Code	Needle gauge	Code
3.2mm	32	5.6mm	56
4.0mm	40	6.0mm	60
4.8mm	48	6.4mm	64

*For stitch type category "24" (4-needle), needle gauge category only 60 can be selected.
*For stitch type category "22" (2-needle), needle gauge category "56" and "64" cannot be selected.
*For stitch type category "23" (3-needle), needle gauge category "32", "40" and "48" cannot be selected.

[with automatic thread trimmer]

Stitch type	Code
2-needle, top and bottom coverstitch	22
3-needle, top and bottom coverstitch	23

Tongue shape of throat plate	Code
B type (Standard)	B
D type	D

Thread trimming device	Code
Electromagnetic type top and bottom thread trimming device	UT31
Pneumatic type top and bottom thread trimming device	UT33

MF77△△DU10□△△/UT△△

Application	Code
Universal type	U10

Needle gauge	Code	Needle gauge	Code
3.2mm	32	5.6mm	56
4.0mm	40	6.4mm	64
4.8mm	48		

*For stitch type category "22" (2-needle), needle gauge category "56" and "64" cannot be selected.
*For stitch type category "23" (3-needle), needle gauge category "32", "40" and "48" cannot be selected.

● To order, please contact your nearest JUKI distributor.

JUKI®
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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.



JUKI CORPORATION HEAD OFFICE
An environmental management system to promote and conduct the following:
(1) Eco-friendly development of products and technologies
(2) Green procurement and green purchasing
(3) Energy conservation (reduction in carbon-dioxide emissions)
(4) Resource saving (reduction of papers purchased, etc.)
(5) Reduction and recycling of waste
in the activities of research, development, design, sales, distribution, and maintenance services of industrial sewing machines and industrial robots, etc., including sales and maintenance services of data entry systems.