

**JUKI**®

# 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-7723DU10B56

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-7723DU10B56UT33

## MF-7700D

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

## MF-7700D/UT31

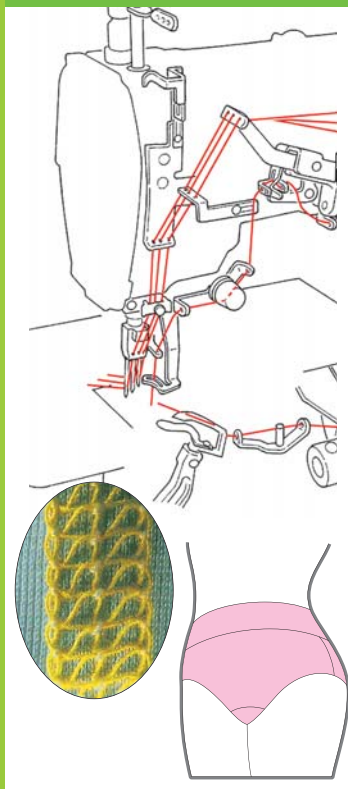
Semi-dry-head, Flat-bed, Top and Bottom Coverstitch Machine with Electromagnetic Type Top and Bottom Thread Trimming Device

## MF-7700D/UT33

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

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

### Soft-seam

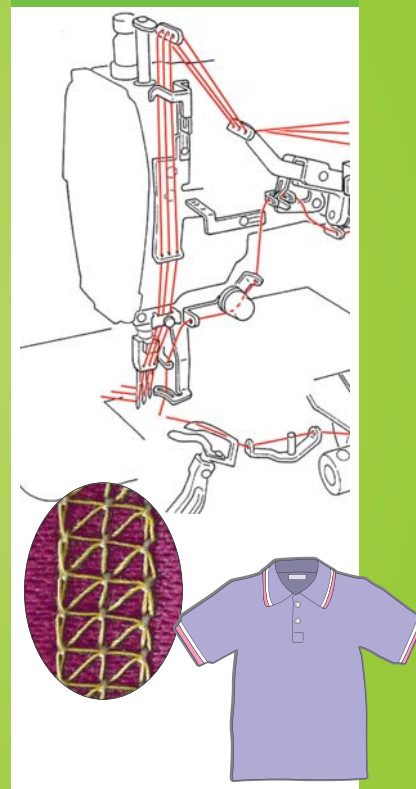


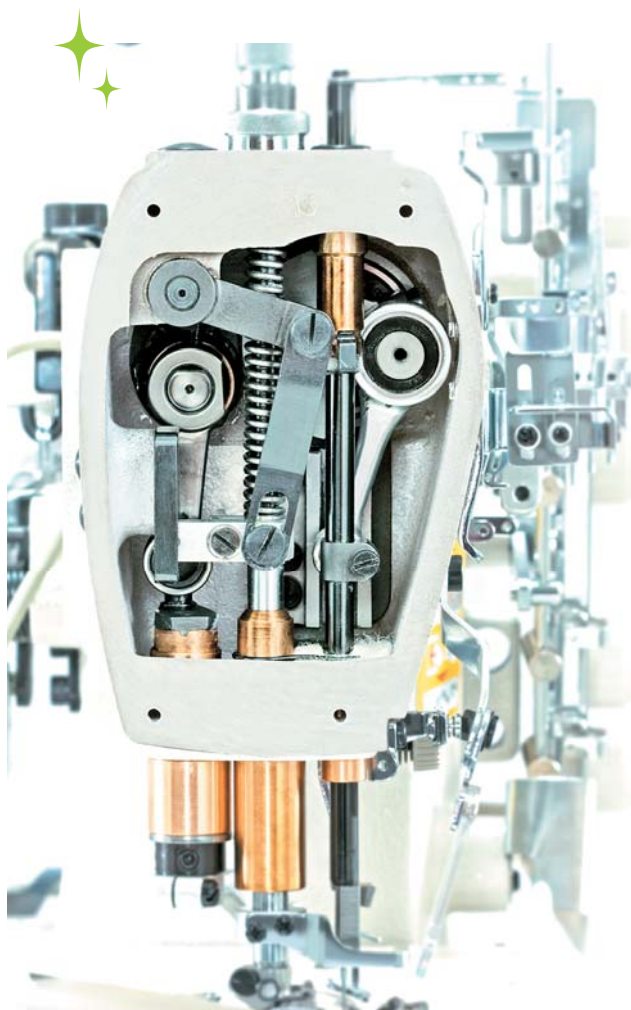
The seam conditions can be changed over according to the application or material, i.e., soft and low-tensed seams for inner wear and high-grade well-tensed seams for outer wear.

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

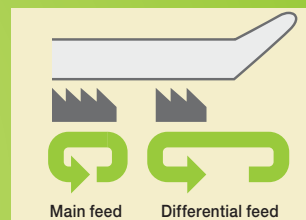
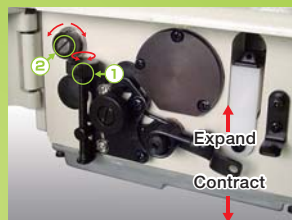
Elastic material or delicate material can be sewn with the presser foot kept slightly raised.

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



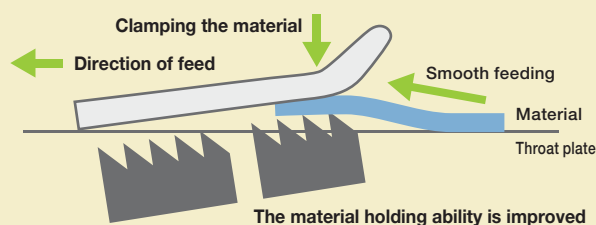
### Differential-feed micro-adjustment mechanism ①

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.



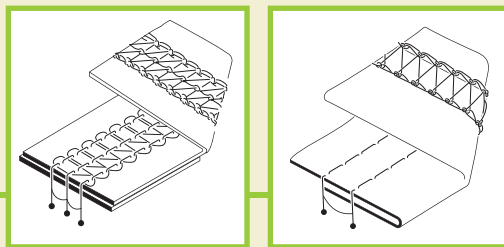
### Feed dog inclination adjustment mechanism ②

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.



# U10

## Universal type (basic type)



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.

\*Modification to the collaretti attaching type model is easily achieved simply by changing the throat plate and feed dog.



MF-7723DU10B56

### List of subclass machines

Application	Seam	Model No.	Number of needles	Number of threads	Needle gauge (mm)	Stitch length* <sup>1</sup> (mm)	Differential-feed ratio	Presser lifting amount* <sup>2</sup> (mm)	Max. sewing speed* <sup>3</sup> (sti/min)
<b>U10</b> Universal type (basic type)		MF-7723DU10B** MF-7723DU10B**UT31 MF-7723DU10B**UT33	3	5	5.6, 6.4	1.2~3.6	1:0.7~1:2	5(8)	4,000

\*<sup>1</sup> Stitch length can be adjusted to 4.4mm at the maximum.

\*<sup>2</sup> 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.

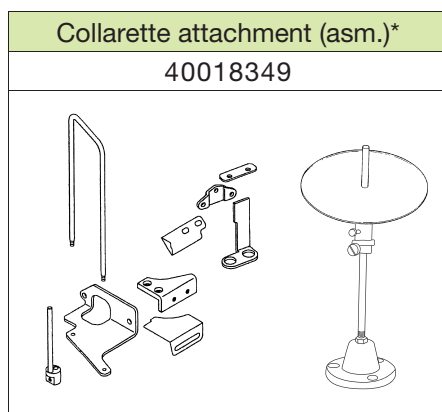
\*<sup>3</sup> "sti/min" stands for "Stitches per Minute."

### Replacement parts for C10

Model name	C10		
Needle gauge	4.0mm	5.6mm	6.4mm
Needle clamp	13350103	13350301	13350400
Throat plate (tongue shape of throat plate *)	B	13351408	13351606
	D	40073948	40073950
Presser foot asm.	40056504	40056410	40056411
Main feed dog	13353800	13353909	
Differential-feed	13357702	13357801	

\*Commercially-available gauges are applicable.

\*Type D gives a moderate slack to the needle thread as compared with the standard type B.



\*Select an appropriate gauge from "Replacement parts for C10".  
\*The folder is not included in the collaretti attachment (asm).

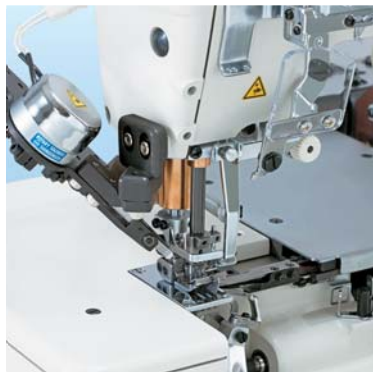
## UT31

### 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-7723DU10B56UT31



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-7723DU10B56UT33



Pneumatic type top and bottom thread trimming mechanism

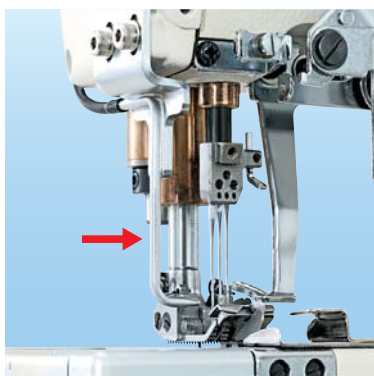


① Presser lifter drive mechanism  
② Thread trimmer drive mechanism

### ■ 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 <sup>3</sup> /min (ANR)
-	0.5	0.7
○		182



Air blow type wiper

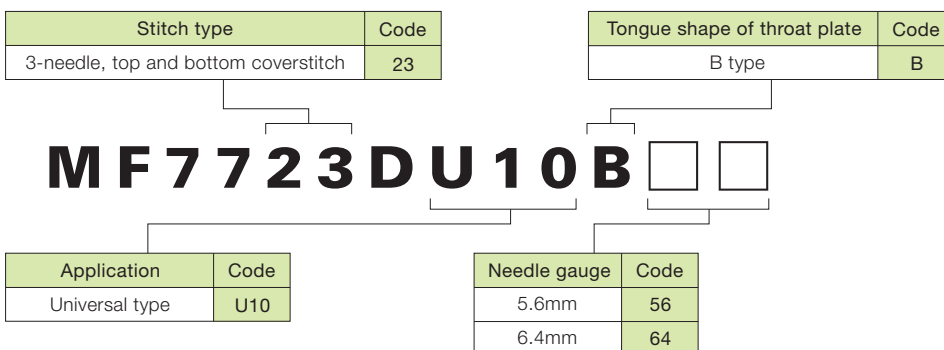
## Specifications

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)

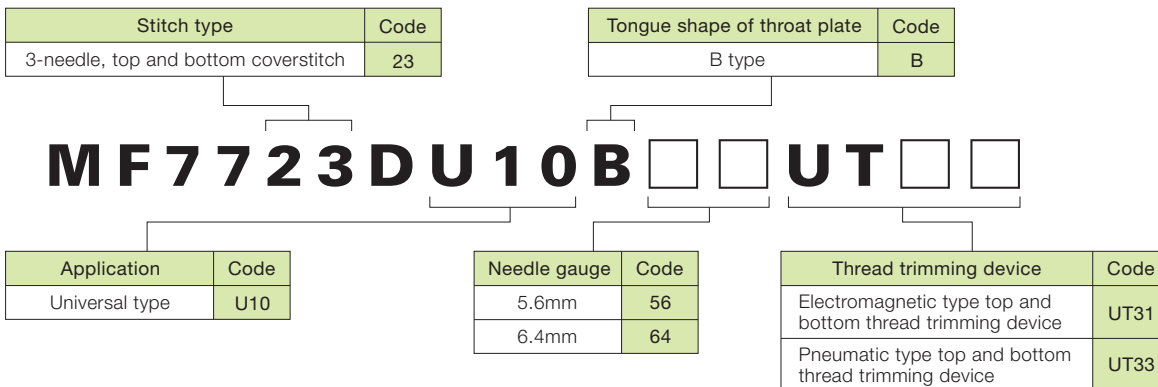
## When you place orders

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

### [without automatic thread trimmer]



### [with automatic thread trimmer]



- To order, please contact your nearest JUKI distributor.



#### JUKI CORPORATION HEAD OFFICE

Juki Corporation operates an environmental management system to promote and conduct the following as the company engages in the research, development, design, sales, distribution, and maintenance of industrial sewing machines, household sewing machines, industrial robots, etc., and in the provision of sales and maintenance services for data entry systems:

- ① The development of products and engineering processes that are safe to the environment
- 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
- ⑥ Improvement of logistics efficiency (modal shift and improvement of packaging, packing, etc.)

**JUKI**® 8-2-1, KOKURYO-CHO, CHOFU-SHI,  
TOKYO 182-8655, JAPAN  
PHONE : (81) 3-3480-2357, 2358  
FAX : (81) 3-3430-4909  
http://www.juki.com

- \* 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 catalogue prints with environment-friendly soyink on recycle paper.