

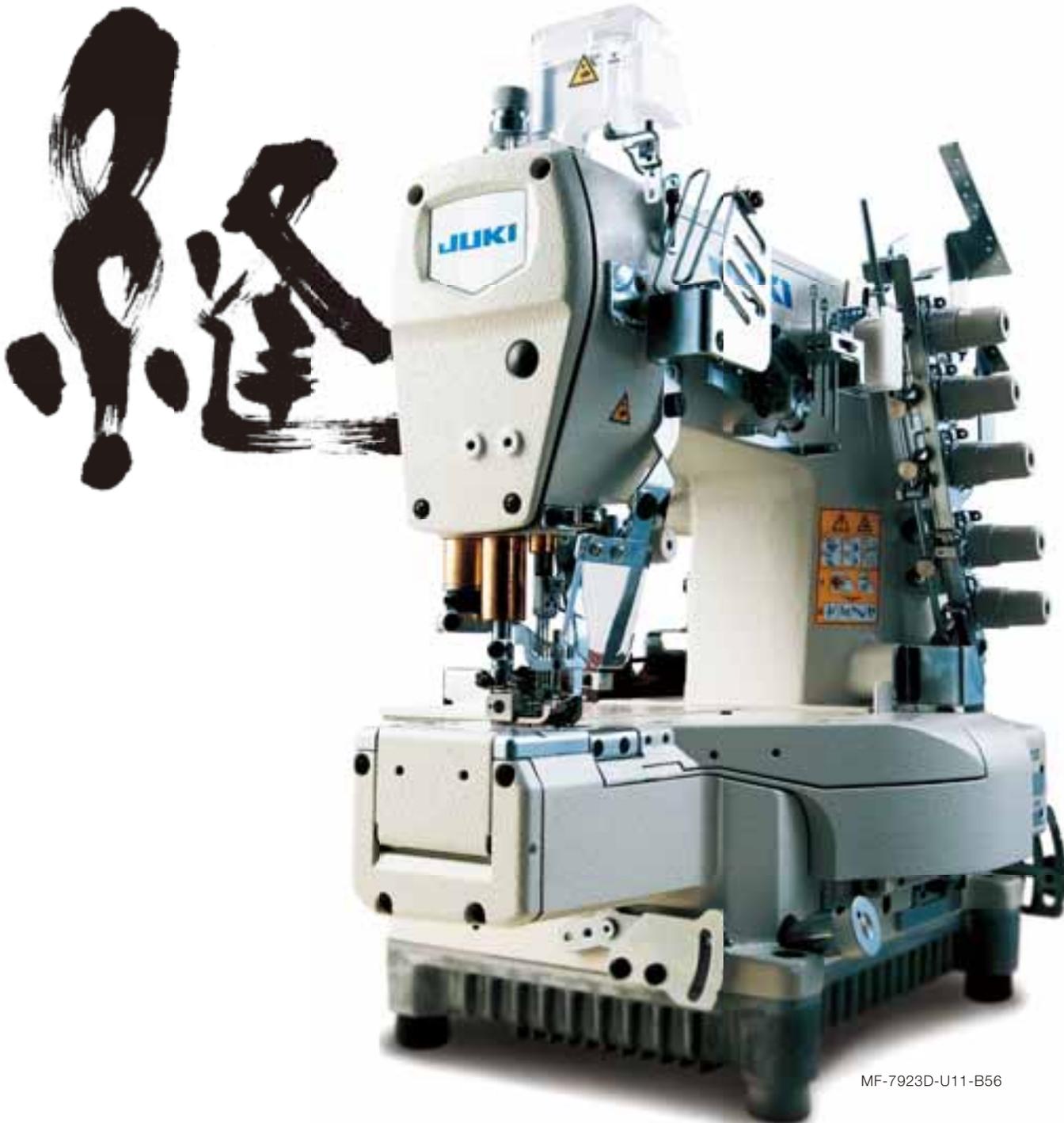
MF-7900 Series

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



MF-7900D Series

Semi-dry-head, Cylinder-bed, Top & Bottom Coverstitch Machine



MF-7923D-U11-B56

The MF-7900 Series is a newly developed coverstitch machine provided with lots of mechanisms for improving the seam quality.

It is provided with many different sewing-related mechanisms which contribute to improved seam quality, such as the new feed mechanism, and differential-feed micro-adjustment mechanism. In addition, the machine is provided as standard with a looper thread twining prevention mechanism for improved maintenance.

MF-7900 Series
High-speed, Cylinder-bed,
Top & Bottom Coverstitch Machine

MF-7900/UT Series
Direct-drive, High-speed, Cylinder-bed,
Top & Bottom Coverstitch Machine with Needle- and Looper- Thread Trimmer

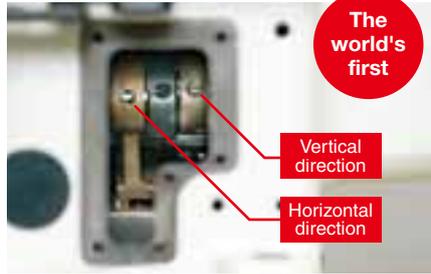
MF-7900D Series
Semi-dry-head, Cylinder-bed,
Top & Bottom Coverstitch Machine

MF-7900D/UT Series
Semi-dry-head, Direct-drive, Cylinder-bed,
Top & Bottom Coverstitch Machine with Needle- and Looper- Thread Trimmer

Seam quality is improved!!

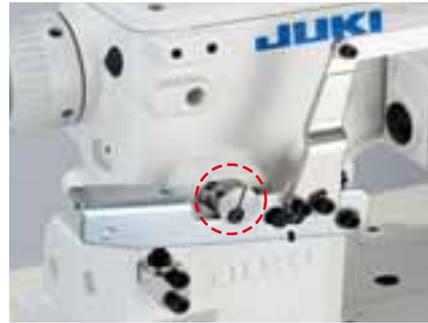
Thanks to the new feed mechanism, many different types of sewing are achieved.

The feed locus can be adjusted externally. The feed locus is now adjustable in terms of the vertical direction and horizontal direction, thereby improving responsiveness to sewing materials.



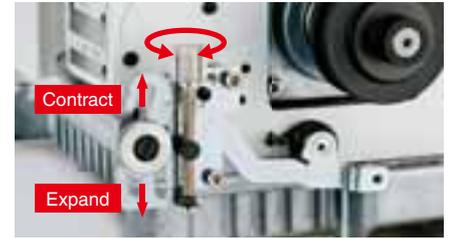
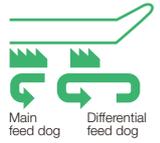
Micro-lifter mechanism

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

It is possible to finely adjust the differential feed amount to a best-suited value for the material to be used. The differential feed ratio is constant even if the stitch length is changed.



All of the sewing machines with a thread trimmer are provided with a direct-drive motor.



The direct-drive motor system has been adopted by all of the sewing machines with a thread trimmer. As a result, the sewing machine starts up swiftly and promises increased stop accuracy, thereby demonstrating improved responsiveness. In addition, the machine is no longer provided with a V-belt. This means that the adoption of the direct-drive motor is also effective in the elimination of belt shavings. Power is directly transmitted from the motor to the sewing machine, thereby contributing to reduced power consumption. (This sewing machine reduces power consumption by 27% as compared with the conventional models.)

Servomotor MF7823/UT22/SC510	
Direct-drive motor MF-7923/UT57/SC921/CP18	
	Power consumption Reduced by 27%

Simplified maintenance mechanism

The looper thread twining prevention mechanism has been improved and is provided as standard for the sewing machine.

In the case of looper thread breakage, the looper thread twining prevention mechanism is activated to trim the looper thread before the thread twines on the looper thread cam. In this way, the looper thread twining prevention mechanism prevents the looper thread from twining on the looper thread cam. In addition, the looper thread cam, which has been incorporated in the sewing machine, has been changed so that it is mounted outside of the sewing machine. The externally-mounted looper thread cam promises improved maintainability.



The world's first

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.

U11

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.

The front cover is trimmed to allow operators to bring their hands closer near the needle entry area, thereby increasing work efficiency in the covering process, etc.



MF-7923-U11-B56/UT51



List of subclass machines

Application	Seam	Model No.	Number of needles	Number of threads	Needle gauge (mm)	Stitch length ^{*1} (mm)	Differential feed ratio ^{*2}	Presser foot lifting amount ^{*3} (mm)	Max. sewing speed (st/min)
MF-7900/ U11		MF-7922-U11-B**	2	4	3.2,4.0,4.8	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5 (8)	6,500
		MF-7923-U11-B**	3	5	5.6,6.4				6,000
		MF-7922-U11-B48/UT51	2	4	4.8				5,000
		MF-7923-U11-B**/UT51, UT57	3	5	5.6,6.4				5,000
MF-7900D/ U11		MF-7922D-U11-B40	2	4	4.0	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5 (8)	5,000
		MF-7923D-U11-B**	3	5	5.6,6.4				5,000
		MF-7923D-U11-B**/UT51, UT57	3	5	5.6,6.4				5,000

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

*2 Differential ratio can be switched by adjustment.

*3 The lift of the presser foot is 5mm for the top and bottom coverstitch machine, and 8mm for the bottom coverstitch machine.

*4 Max. sewing speed of MF-7923-U11-B**/PL12, 13 is 5,000st/min.

Binder mounting base

Various binders can be installed by loading the binder mounting base supplied with the unit.



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

With the excellent functions inherited from the MF-7900 Series, the MF-7900D 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.



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.

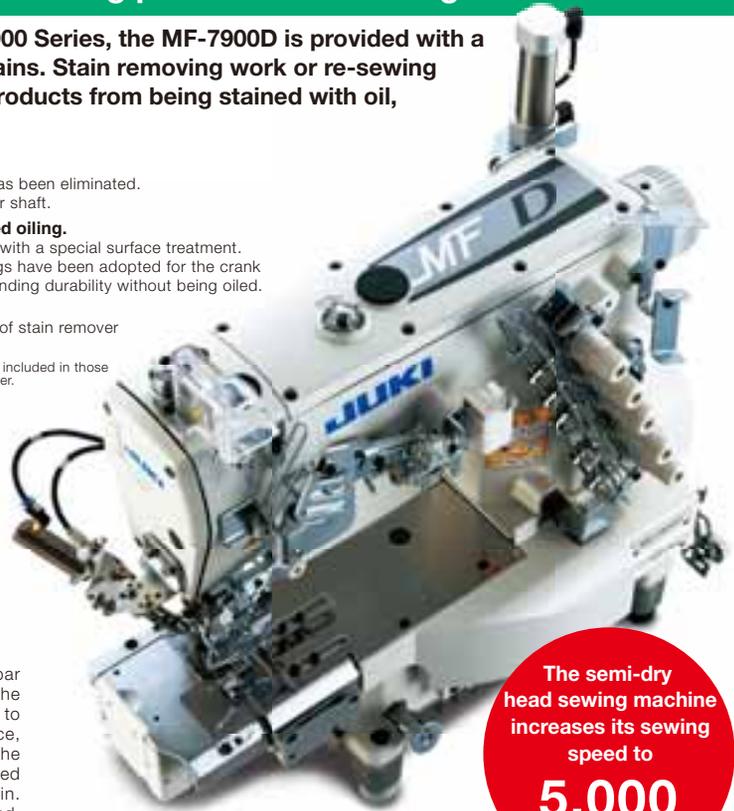
The needle bar mechanism and spreader mechanism have been applied with a special surface treatment. JUKI's unique special grease is used for lubrication. Grease-filled bearings have been adopted for the crank rod. These allow the machine's frame mechanism to demonstrate outstanding durability without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



A semi-dry head type sewing machine has been added.

Needle bar stroke conversion mechanism

By changing over the needle bar stroke, penetrating force of the needle as well as thread tension to fit heavy-weight materials (fleece, blankets) can be obtained. The needle bar stroke can be changed by adjusting the eccentric pin. (Changing of parts is not required. Factory-set at the time of delivery: 31mm; for sewing heavy-weight materials: 33mm)

The semi-dry head sewing machine increases its sewing speed to **5,000 sti/min**

JUKI ECO PRODUCTS

The MF-7923U11B56/UT57 is an eco-friendly product which complies with JUKI ECO PRODUCTS standards for protecting the environment.



- This sewing machine reduces power consumption by 27% as compared with the conventional models.
- The sewing machine complies with the "Juki Group Green Procurement Guidelines" on the use of hazardous substances, which is stricter than other restrictions, such as those of the RoHS Directive.

For details of JUKI ECO PRODUCTS, refer to : http://www.juki.co.jp/eco_e/index.html

*The RoHS Directive is an EU Directive limiting the use of 6 hazardous substances (lead, hexavalent chromium, mercury, cadmium, PBB and PBDE) in electrical and electronic equipment. The Juki Green Procurement Guideline is the voluntarily established criteria to eliminate not only the aforementioned six substances, but also other ones which also adversely affect the environment.

H22, H23

For hemming (with left hand fabric trimmer)

This model is best suited to hemming processes for sleeves and the bottoms of T-shirts, Polo shirts, etc. It comes with a left hand fabric trimmer for trimming fabric in parallel, at all times, to the seam with consistency. The upper knife stroke can be adjusted with ease.



T-shirts



Polo shirts



MF-7923D-H23-B56/UT57



List of subclass machines

Application	Seam	Model No.	Number of needles	Number of threads	Needle gauge (mm)	Stitch length (mm) ^{*1}	Differential feed ratio ^{*2}	Presser foot lifting amount ^{*3} (mm)	Max. sewing speed (sti/min)
MF-7900/H22,23		MF-7922-H22, H23-B**	2	4	4.0,4.8	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5 (B)	6,000
		MF-7922-H22, H23-B48/MC40			4.8				
MF-7900/H22,23/UT		MF-7923-H22, H23-B**	3	5	5.6,6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5 (B)	6,000
		MF-7923-H22, H23-B**/MC40							
		MF-7922-H22, H23-B48/UT51, UT57							
MF-7922-H22, H23-B48/UT57/MC37									
MF-7900D/H22,23		MF-7923-H22, H23-B**/UT51, UT57	3	5	5.6,6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5 (B)	5,000
		MF-7923-H22, H23-B**/UT57/MC37							
MF-7900D/H22,23/UT		MF-7923D-H22, H23-B56	3	5	5.6,6.4	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5 (B)	5,000
		MF-7923D-H22, H23-B56/MC40							
MF-7900D/H22,23/UT		MF-7922D-H22, H23-B48/UT57/MC37	2	4	4.8	0.9~3.6	1:0.9~1:1.8 (1:0.6~1:1.1)	5 (B)	5,000
		MF-7923D-H22, H23-B**/UT51, UT57							
		MF-7923D-H22, H23-B**/UT57/MC37							

The world's fastest sewing machine with left hand fabric trimmer

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

*2 Differential ratio can be switched by adjustment.

*3 The lift of the presser foot is 5mm for the top and bottom coverstitch machine, and 8mm for the bottom coverstitch machine.

DEVICE

UT51

Electromagnetic needle thread / looper thread trimming device/Auto-lifter

It is an electromagnetic needle thread / looper thread trimming device / Auto-lifter. The machine does not need an air compressor to achieve easy layout changing.



Electromagnetic needle thread / looper thread trimming device

UT52

Electromagnetic needle thread / looper thread trimming device/Auto-lifter

It is an electromagnetic needle thread / looper thread trimming device / Auto-lifter with cloth puller.



Electromagnetic needle thread / looper thread trimming device

UT57

Pneumatic type needle thread / looper thread trimming device/Auto-lifter

It is a pneumatic type needle thread / looper 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. The air blow type wiper is supplied with the sewing machine as an accessory.



Pneumatic type needle thread / looper thread trimming device

MC37 MC40

Pneumatic cloth chip suction device

Cloth chips trimmed by the hook knife are sucked away using air. So, there is no risk of sewing cloth chips in seams. MC37 (solenoid valve type) for the servomotor or MC40 (mechanical valve type) for the clutch motor should be selected according to the use of your machine.

PL12

Cloth puller: Gear type

This is a gear type cloth puller. It helps feed difficult-to-feed materials to assist smooth sewing. (Example: Attaching flat elastic bands)

PL13

Cloth puller: Flat type

This is a flat type cloth puller. It helps feed soft material which requires a higher feeding force to assist sewing. (Example: Hemming)

WHEN YOU PLACE ORDERS

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

MF-7900

Without automatic thread trimmer

Stitch type	Code	Tongue shape of throat plate	Code
2-needle, top and bottom coverstitch	22	B type (Standard)	B
3-needle, top and bottom coverstitch	23		

MF79□□□□B□□/□□□□

Application	Code	Needle gauge	Code	Device and attachment	Code
Universal type	U11	3.2mm	32	Not provided	
Hemming (with left hand fabric trimmer, for light-weight materials)	H22	4.0mm	40	Pneumatic cloth chip suction device (mechanical valve type)	MC40
		4.8mm	48		
Hemming (with left hand fabric trimmer, for medium-weight materials)	H23	5.6mm	56	Cloth puller: Gear type	PL12
		6.4mm	64	Cloth puller: Flat type	PL13

*Refer to the subclass models list for the needle gauge of the respective models.

With automatic thread trimmer (Direct-drive motor type)

Stitch type	Code	Tongue shape of throat plate	Code
2-needle, top and bottom coverstitch	22	B type (Standard)	B
3-needle, top and bottom coverstitch	23		

MF79□□□□B□□□□□□□□

Application	Code	Needle gauge	Code	Thread trimming device	Code
Universal type	U11	4.8mm	48	Electromagnetic type top and bottom thread trimming device	UT51
Hemming (with left hand fabric trimmer, for light-weight materials)	H22	5.6mm	56	Electromagnetic type top and bottom thread trimming device	UT52
		6.4mm	64	Pneumatic type top and bottom thread trimming device	UT57
Hemming (with left hand fabric trimmer, for medium-weight materials)	H23			Pneumatic cloth chip suction device (electromagnetic valve type)	MC37
				Cloth puller: Gear type	PL12
				Cloth puller: Flat type	PL13

MF-7900D (Semi-dry-head)

Without automatic thread trimmer

Stitch type	Code	Tongue shape of throat plate	Code
2-needle top and bottom covering stitch	22	B type (Standard)	B
3-needle top and bottom covering stitch	23		

MF79□□D□□□B□□/□□□□

Application	Code	Needle gauge	Code	Device and attachment	Code
Universal type	U11	4.0mm	40	Not provided	
Hemming (with left hand fabric trimmer, for light-weight materials)	H22	5.6mm	56	Pneumatic cloth chip suction device (mechanical valve type)	MC40
Hemming (with left hand fabric trimmer, for medium-weight materials)	H23	6.4mm	64		

*Refer to the subclass models list for the needle gauge of the respective models.

With automatic thread trimmer (Direct-drive motor type)

Stitch type	Code	Tongue shape of throat plate	Code
2-needle top and bottom covering stitch	22	B type (Standard)	B
3-needle top and bottom covering stitch	23		

MF79□□D□□□B□□□□□□□□

Application	Code	Needle gauge	Code	Thread trimming device	Code
Universal type	U11	5.6mm	56	Electromagnetic type top and bottom thread trimming device	UT51
Hemming (with left hand fabric trimmer, for light-weight materials)	H22	6.4mm	64	Pneumatic type top and bottom thread trimming device	UT57
Hemming (with left hand fabric trimmer, for medium-weight materials)	H23			Pneumatic cloth chip suction device (electromagnetic valve type)	MC37

SPECIFICATIONS (U11, H22, H23)

Model name	MF-7900 series	MF-7900D series
Stitch type	2-needle/3-needle top and bottom covering stitch	2-needle/3-needle top and bottom covering stitch
Needle	UY128GAS (#10S) #9-#14S	
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	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 gauge (mm)	3.2, 4.0, 4.8, 5.6, 6.4	
Needle bar stroke converting function	Provided as standard: 31mm: at the time of delivery / When sewing a heavy-weight material: 33mm	
Silicon oil tank for needle tip and needle thread	Provided as standard	
Cartridge oil filter	Provided as standard	
Power requirement	Single-phase 100~120V / 200~240V, 3-phase 200~240V (with automatic thread trimmer)	
Power consumption	500VA (with automatic thread trimmer)	
Weight of the machine head	U11	41kg (without device), 49kg (with UT51), 51kg (with UT52), 44kg (with UT57)
	H22, H23	42kg (without device), 50kg (with UT51), 45kg (with UT57)

*"sti/min" stands for "Stitches per Minute."

Compressedair / Air consumption (with automatic thread trimmer)

UT57			Air consumption dm ³ /min (ANR)	Compressed air MPa
Top and bottom thread trimmer Auto-lifter	Air blow type wiper	MC37 MC40		
●	—	—	0.7	0.5
●	●	—	182	
●	—	●	456	
●	●	●	637	



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® 2-11-1, TSURUMAKI, TAMA-SHI, TOKYO 206-8551, JAPAN
 PHONE : (81) 42-357-2254
 FAX : (81) 42-357-2274
 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.