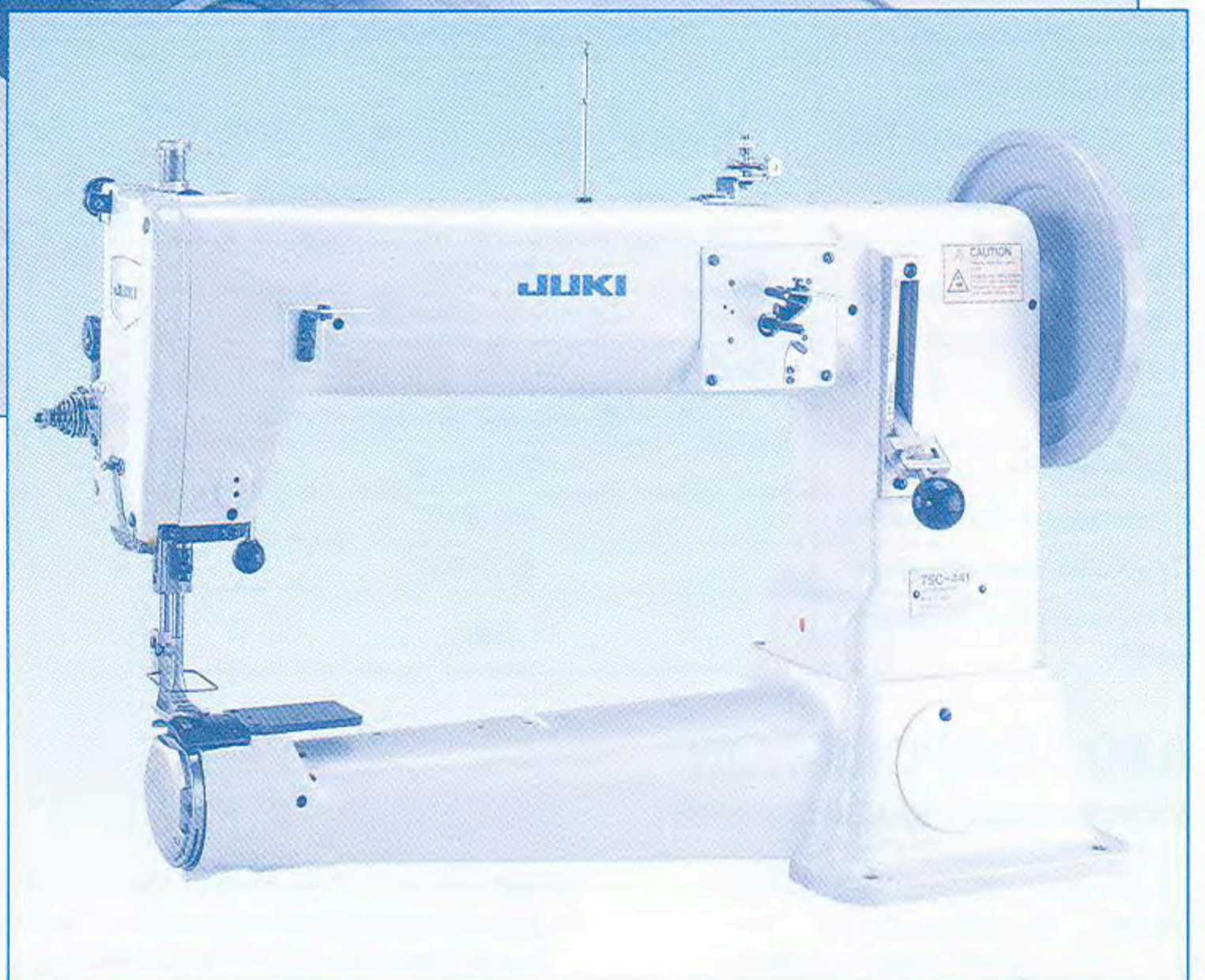
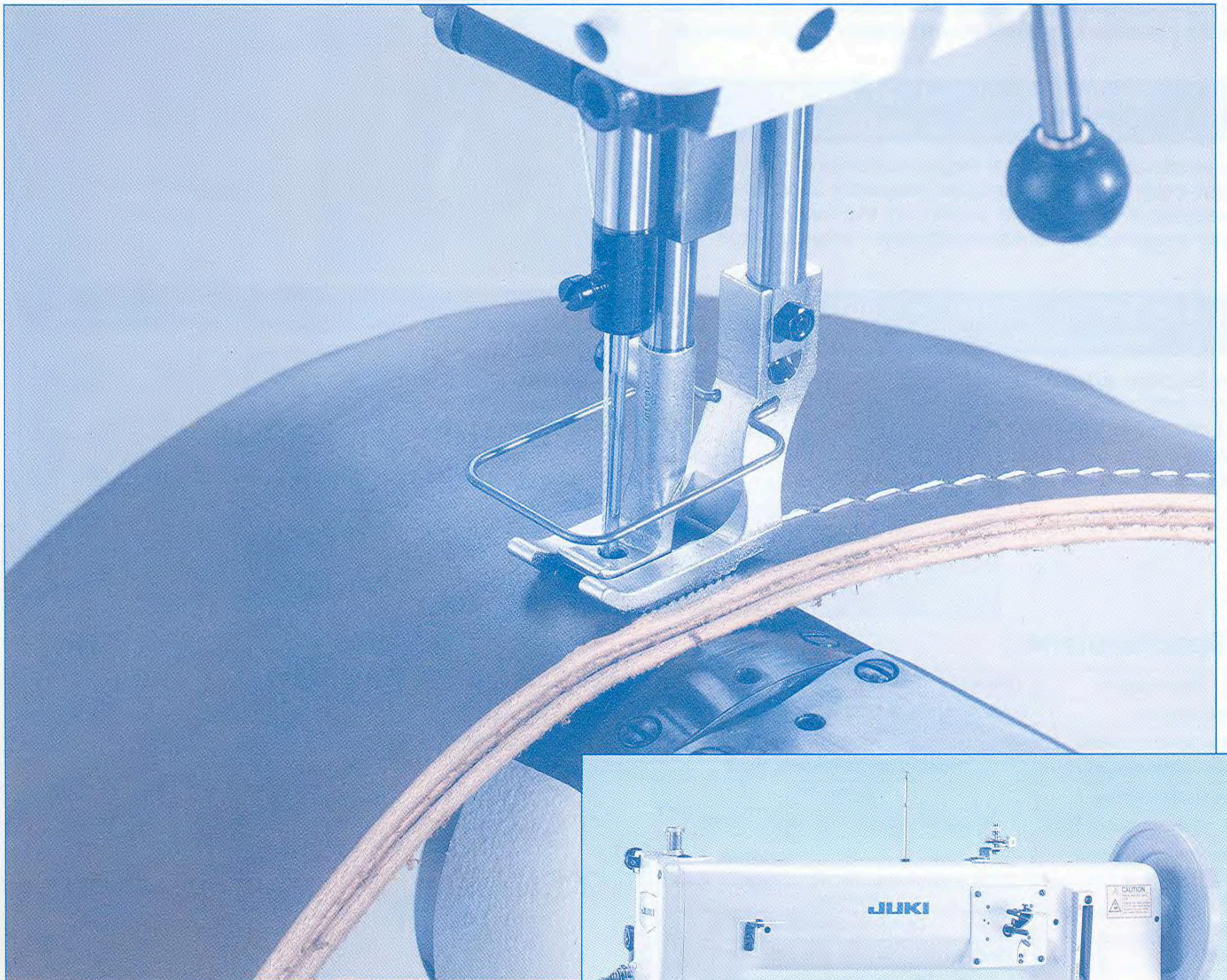


JUKI®

**1-needle, Semi-long Cylinder Bed, Lockstitch Machine
with a Large Shuttle-hook for Extra-heavy-weight Materials**

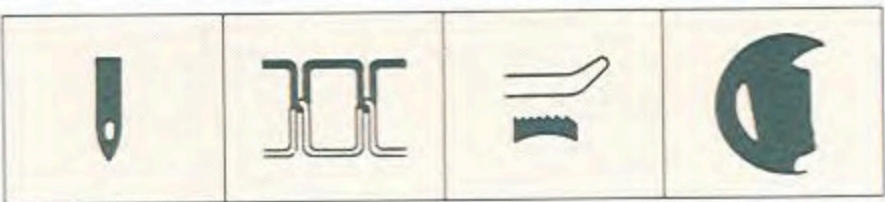
TSH-411 (Bottom feed)
TSN-421 (Needle feed)
TSU-471 (Top & bottom feed)
TSC-441 (Unison feed)



TSC-441

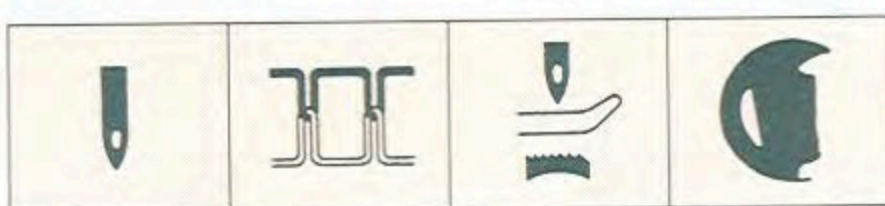
1-Needle, Bottom Feed, Cylinder Bed, Lockstitch Machine for Extra Heavyweight Materials

TSH-411



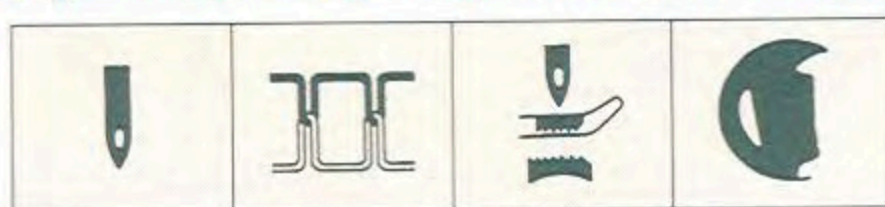
1-Needle, Needle Feed, cylinder Bed, Lockstitch Machine for Extra Heavyweight Materials

TSN-421



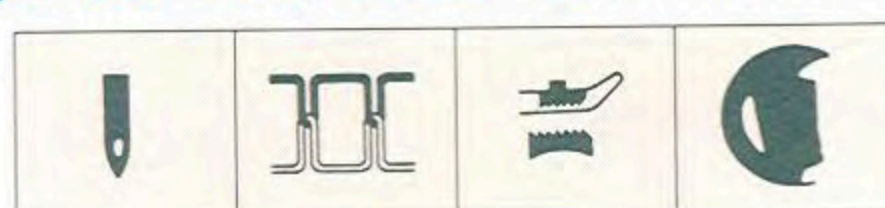
1-Needle, Unison Feed, Cylinder Bed, Lockstitch Machine for Extra Heavyweight Materials

TSC-441



1-Needle, Top and Bottom Feed, Cylinder Bed, Lockstitch Machine for Extra Heavyweight Materials

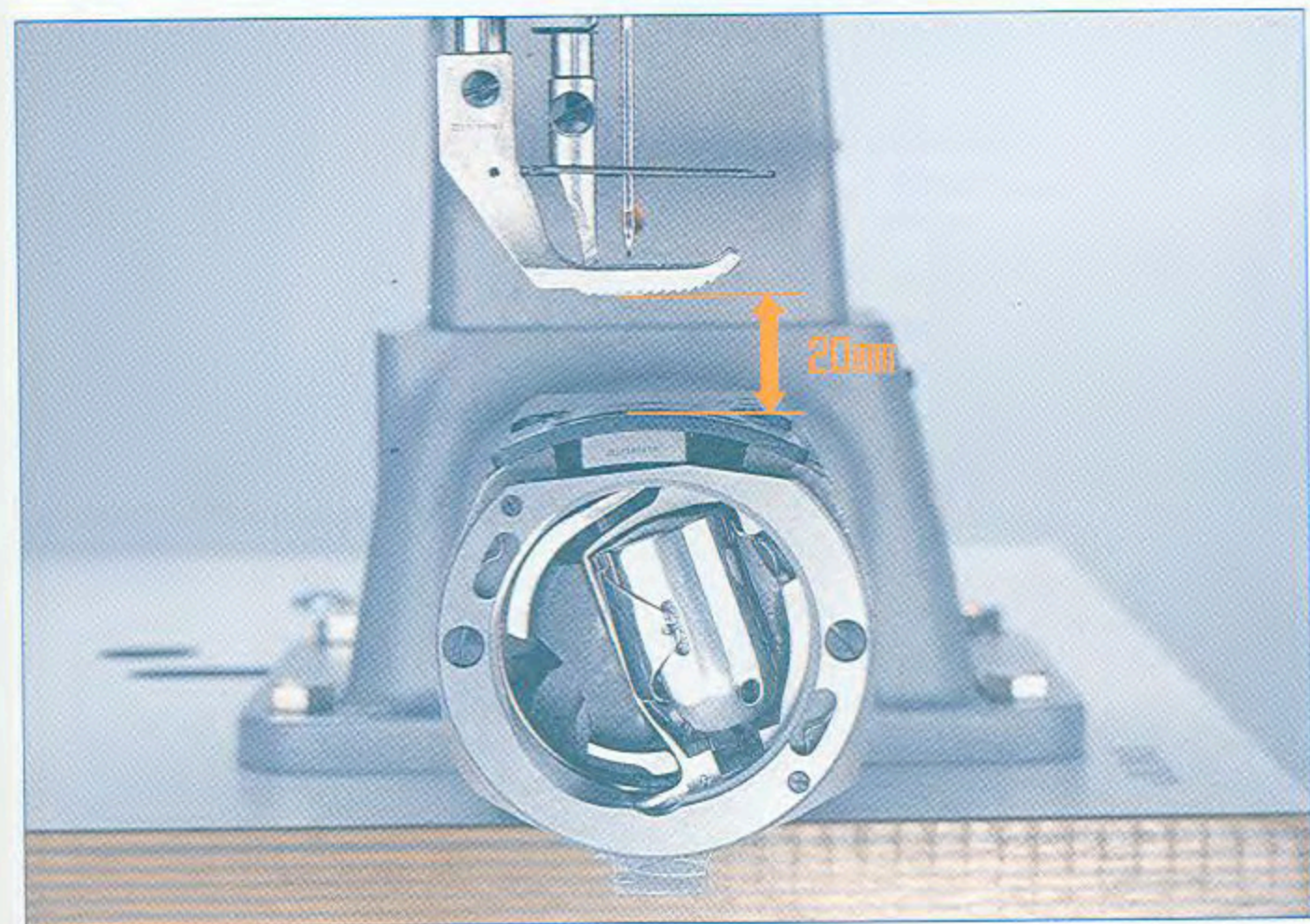
TSU-471



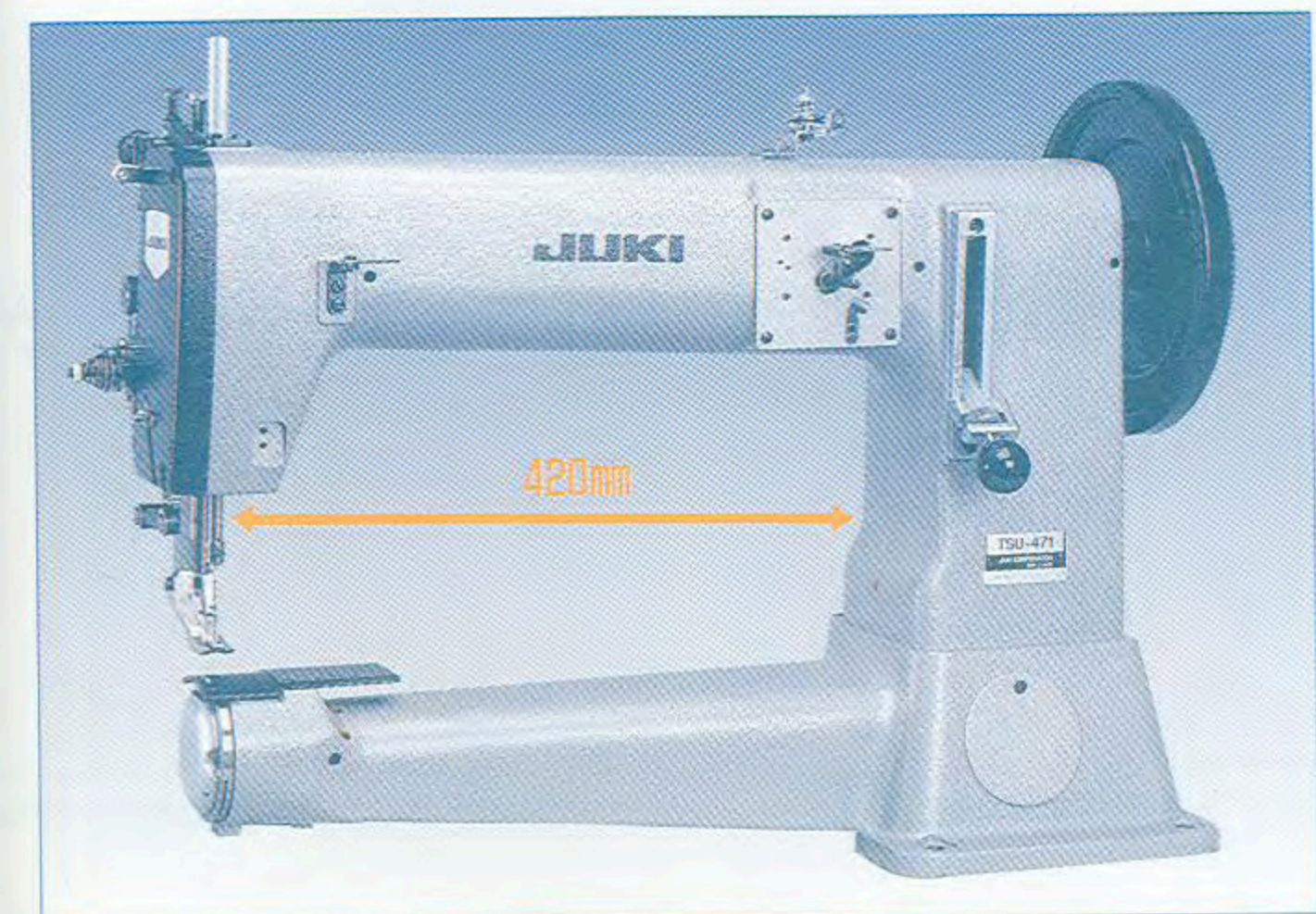
The last word in a cylinder bed sewing machine for extra heavyweight materials

■ FEATURES

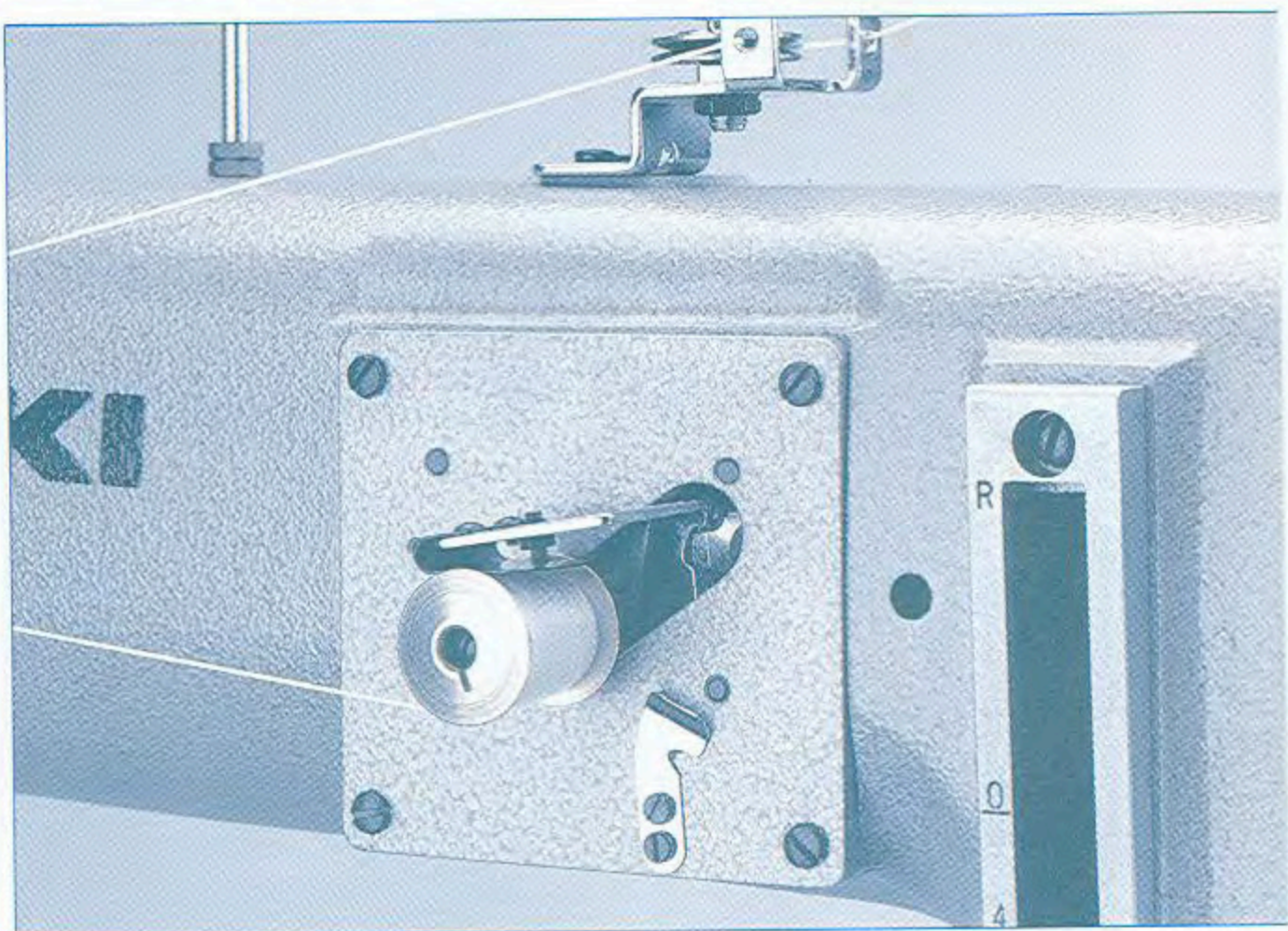
The lifting amount of the presser foot is as high as 20 mm
A lifting amount of the presser foot sufficient for sewing extra heavy-weight materials.



The machine is provided with a free space measuring 420 mm wide
The wide free space on the sewing machine allows the operator to handle a large sewing product with ease.

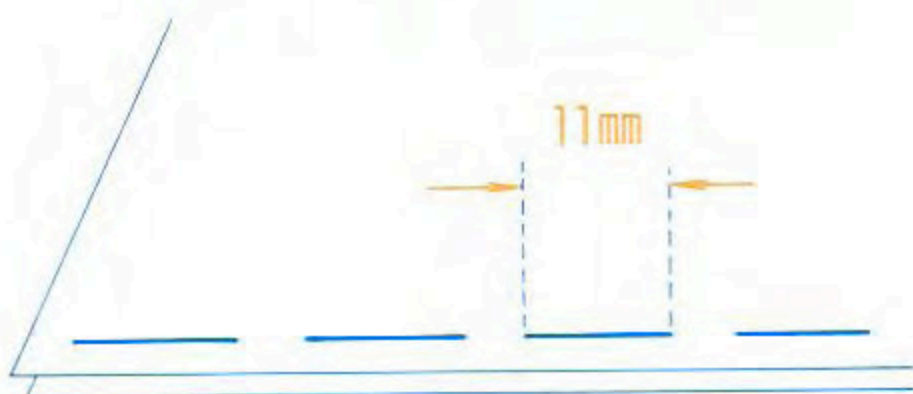


A built-in bobbin winder
The machine incorporates a built-in bobbin winder, which can be reached with ease during sewing.



The machine is equipped with a large hook and large bobbin for extra heavyweight materials
Thanks to the large hook and large bobbin, the frequency of bobbin changing is reduced.
Consequently, the machine is ideally suited for sewing extra heavy-weight materials.

The maximum stitch length is 11 mm.



* Four different feed methods are available. Selection of the feed mechanism can be made in accordance with the application of the machine.

Bottom feed machine

TSH-411

The machine is capable of sewing sharp curves by replacing the standard presser foot with the roller presser foot.

■ **APPLICATIONS**

Decorative stitches on shoes, bag straps

Needle feed machine

TSN-421

The machine comes with a needle feed mechanism and a top and bottom feed mechanism, which allow the machine to sew material with little material slippage.

■ **APPLICATIONS**

Shoes, safety belts

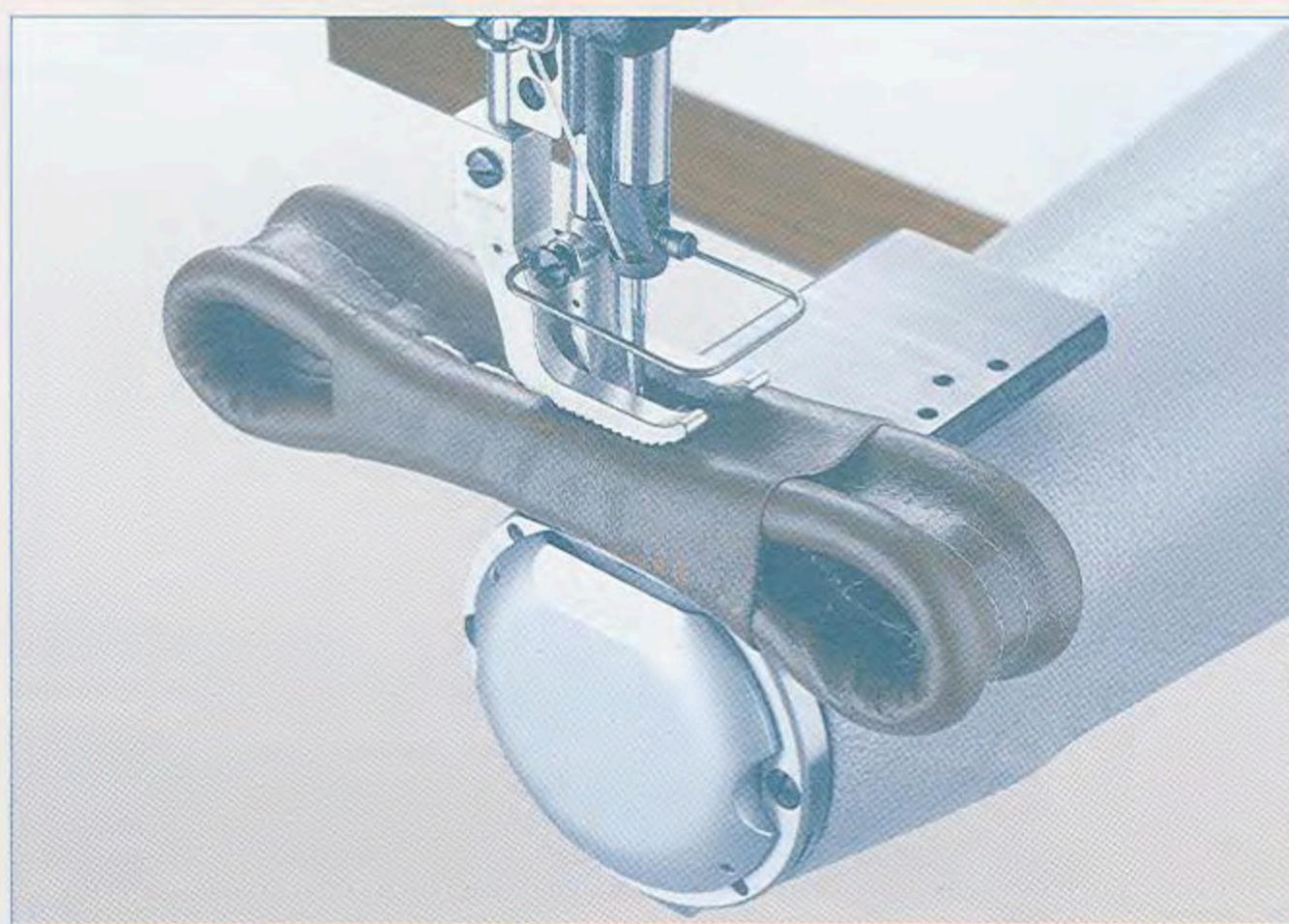
Unison feed machine

TSC-441

The needle feed mechanism in cooperation with the top and bottom feed mechanism demonstrates powerful feeding force. Consequently, a high quality seam without material slippage is assured.

■ **APPLICATIONS**

Bags, sacks, shoes, safety belts



Top and bottom feed machine

TSU-471

The top feed amount can be increased/decreased by 30% with respect to the bottom feed amount.

■ **APPLICATIONS**

Gloves, tents, straps of bags, etc.
Tape attaching or shirring process using a binder

Four different feeding methods are available.
Select the method which best suits the use of your machine.

TSH-411 (Bottom feed)

The TSH-411 can be modified to sew sharp curves by replacing the presser foot with a roller presser.

Use: Decorative stitches on shoes, bag handles, etc.

TSN-421 (Needle feed)

With its bottom feed and feed-dog feed, the machine sews articles entirely free from uneven material feed.

Use: Shoes, seat belts, etc.

TSU-471 (Top&bottom feed)

The top feed amount is adjustable within the range of $\pm 30\%$ of the bottom feed.

Use: Gloves, tents, bags, bag handles, shirring, tape-attachment with a binder installed on the machine, etc.

TSC-441 (Union feed)

A top & bottom feed mechanism has been added to the machine's needle feed system. This ensures a higher feed efficiency and the production of higher-quality seams without uneven material feed.

Use: Bags, pouches, shoes, seat belts, etc.

Higher lift of the presser foot

The lifting range of the presser foot is as high as 20 mm for smooth placement/removal of extra-heavy-weight materials.

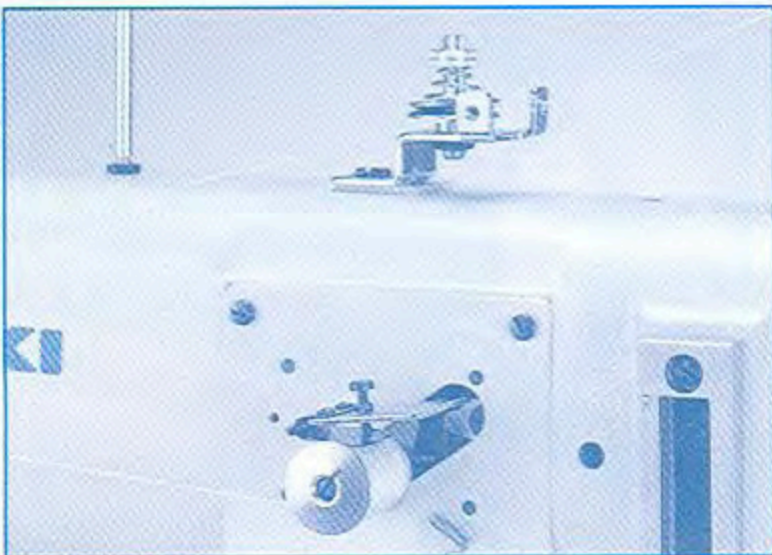
Frequency of bobbin thread replacement is reduced

The machine comes with a large shuttle-hook. This type of shuttle-hook helps to reduce the frequency of bobbin thread replacement and is best suited for the sewing of extra-heavy-weight materials sewn with lower-count threads.



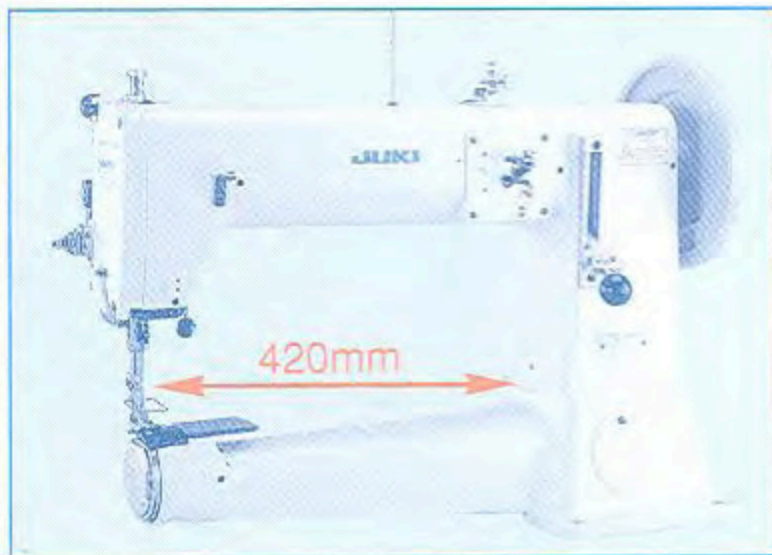
The bobbin winder is built into the front portion of the machine

The bobbin winder is built into the front portion of the machine arm for easy manipulation.



Wider space under the machine arm

The machine has a wider free space under the machine arm to allow the operator to easily place and remove a large sewing products. In addition, the machine has outstanding capabilities in the sewing of sharp curves.



Specifications

Model name	TSH-411	TSN-421	TSU-471	TSC-441
Feed system	Bottom feed	Needle feed	Top & bottom feed	Unison feed
Max. sewing speed	800rpm			
Max. stitch length	11mm (normal/reverse feed)			
Needlebar stroke	56mm			
Lift of the presser foot	By pedal : 20mm / By hand : 12mm			
Alternating vertical movement	—		4~8mm	
Thread take-up	Cam-type			
Hook	Large shuttle-hook			
Needle	794Nm130~Nm280 (standard Nm230)			
Thread	#8~#0 (Japanese yarn count)			
Lubrication	By hand			
Free space for sewing	420mm			
Cylinder bed diameter	φ 81mm			
Weight of the machine head	56kg			

When you place orders

Please note that when placing orders the Model name should be written as follows;

TSH-411 ☐ / ☐

TSN-421 ☐ / ☐

TSU-471 / ☐

TSC-441 / ☐

Presser foot	Code
Standard	<input checked="" type="checkbox"/>
Roller presser	R

Auto-lifter	Code
Knee-switch type (AK-72A)	A
Pedal type (AK-72B)	B
Not provided	<input checked="" type="checkbox"/>

To order, contact your hearest JUKI distributors.