

**JUKI®**

Computer-controlled Cycle Machine with an Input Function

# AMS-210D

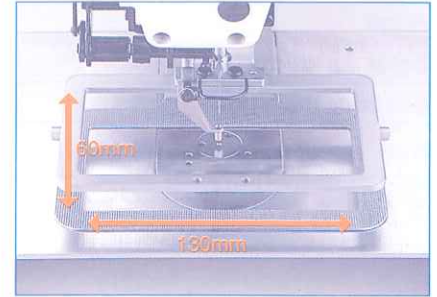
[Sewing area:60mm(L)x130mm(W)]



AMS-210D

# The machine demonstrates outstanding productivity and sewing

*The design of the AMS-210D has been completely reworked to realize a machine that's "faster, easier to operate, and even better looking than before." The machine provides upgraded functions and performance that go beyond the conventional standard. JUKI proudly presents the AMS-210D a machine guaranteed to satisfy users through its improved productivity, seam quality, and operability.*



The machine has a large sewing area that is ideally suited for pattern sewing, label attachment, small-parts sewing and reinforcing stitching.

## **The machine finishes high-quality seams on light- to heavy-weight materials.**

- With its newly designed thread take-up and shuttle hook, the machine reduces irregular stitches and provides consistent thread tension.
- The feeding frame and the intermediate presser have been improved to provide a higher pressure on the material. By securely clamping the material, they ensure consistent-quality seams free from uneven material feed.
- The stroke of the intermediate presser can be adjusted steplessly in the range of 0.5 to 10 mm. This gives the machine the capability to easily handle processes in which multi-layer portions of the material are sewn.
- The lower dead point of the intermediate presser can be easily adjusted to suit the material thickness simply by turning a knob on the controls.



Intermediate presser adjustment knob



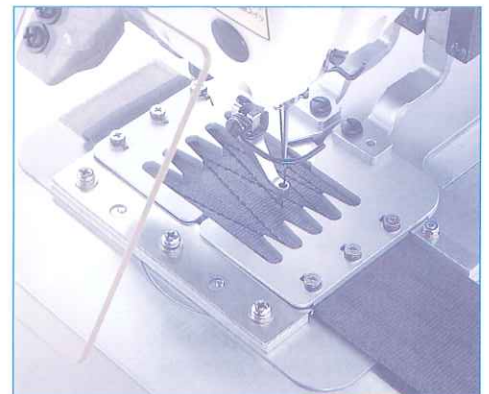
## **The range of materials that can be sewn is further widened.**

- The machine's improved capabilities include the ability to sew a wider and more flexible range of thread number counts. This allows the machine to sew various kinds of heavy-weight materials.

Sewing type	← S (Standard) →			
	← H (For heavy-weight materials) →			
Thread	#2	#20	#50	#80

※ The table given above should be used as a guide. The thread number counts corresponding to the respective material weights depend on sewing conditions given.

- Highly reliable thread trimming mechanism cuts the thread without fail.



# ing capabilities. The ultimate computer-controlled cycle mach

## Productivity is further increased.

- High-speed performance of 2500 s.p.m. (When the stitch length is set to 3 mm)
- Both the jump speed and thread-trimming speed have been increased to reduce the cycle time.

(Example) Label attachment  
(stitch length : 4 mm, label size: 60 mm (L) x 100 mm (W) )

	AMS-210D	Conventional model
Sewing time	3.4 sec.	4.8 sec.

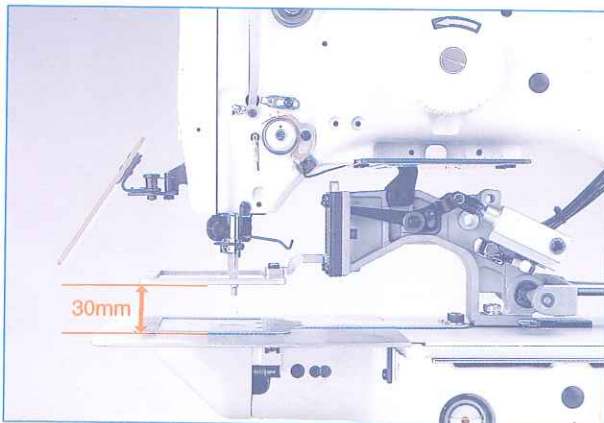
## The frequency of bobbin replacement has been reduced.

- The machine is equipped as standard with a semi-rotary double-capacity shuttle hook. This hook is especially useful for performing sewing with thick thread.



## The ample lift of the feeding frame facilitates material-setting on the machine.

- The lift of the feeding frame is now as high as 30 mm (for pneumatic feeding frame). Furthermore, the lift of the intermediate presser has also been significantly increased, and now extends to 20 mm. With these increased lifts, the material to be sewn can be easily placed on the machine.



## The needlebar can be stopped at its upper dead point.

- The function of stopping the needlebar at its upper dead point enables the needlebar to stop at a higher position. With this function, a heavy-weight material can be placed on the machine with ease.

## Direct-drive mechanism achieves outstanding responsiveness.

- The machine incorporates a direct-drive mechanism that connects a compact AC servo motor directly to the main shaft. This transmits motor revolutions to the main shaft with no loss, thereby improving the machine's responsiveness to the motor.



## The reduced vibration and noise contribute to a more convenient working environment.

- With its hook-driving shaft mechanism and direct-drive mechanism, the machine no longer needs a belt. This helps achieve both higher-speed performance and lower vibration and noise.

## Subclass



### Pneumatic separately-driven feeding frame type (L-type feeding frame)

- The left and right portions of the feeding frame can be separately lifted/lowered to facilitate placement of the material on the machine.
- Both the lift and lifting/lowering speed of the feeding frame can be adjusted separately for the left and right portions.

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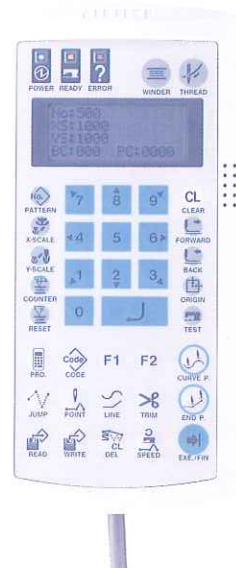
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# ine provided with a complete range of all-new functions.

## Sewing machine setting keys and pattern input keys are vertically located on the operation panel, thereby facilitating operation.

- Inputting works can be conducted while holding the operation panel in your hand.



- Sewing machine setting and inputting data can be visually checked on the liquid crystal panel. The panel also displays detected errors such as thread breakage and insufficient air pressure.

- With the memory switch, settings such as acceleration and needlebar stop position can be specified on the operation panel.



## Abundant input functions enable the machine to respond to the sewing requirements of all sewing patterns.

- The machine comes with a sufficient memory to store a maximum of 360,000 stitches and 691 patterns on a floppy disk.
- A max. of 20,000 stitches can be input per pattern. This gives the machine the ability to sew patterns that consist of many stitches.
- Functions that are frequently used during pattern data input (regular stitching (linear, spline), point stitching, jumping, thread trimming, etc.) are allocated to specific keys on the operation panel. This reduces the time required for input of pattern data.



### <Major input functions>

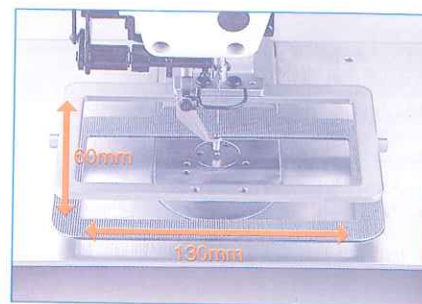
- Creation of linear, spline, arc, and circular stitches.
- Creation of various kinds of zigzag stitches, offset stitches, double-forward stitches, double-reverse stitches, automatic back-tuck, condensation stitches, overlapping stitches, etc.
- Arrangement of move, copy, erase, and symmetry functions.
- Mechanical command to actuate the tension controller No. 3, changes in jump speed, changes in sewing speed, etc.
- Data can be input using function numbers.

## Program extension

- The machine is provided with external input/output ports that are very convenient when re-modeling the machine with accessory devices attached.

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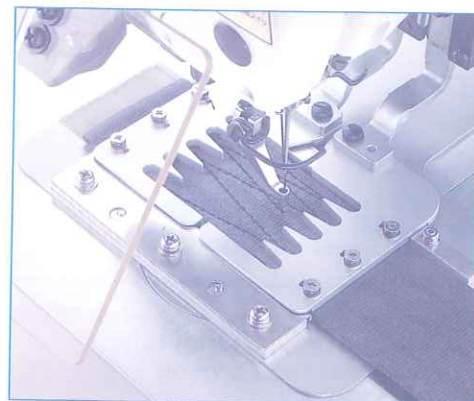
The machine has a large sewing area that is ideally suited for pattern sewing, label attachment, small-parts sewing and reinforcing stitching.

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# AMS-210D

## SPECIFICATION

<b>Model name</b>	<b>AMS-210D</b>
<b>Sewing size</b>	60 mm (L) x 130 mm (W)
<b>Max. sewing speed</b>	2,500 s.p.m. (when stitch length is set to 3 mm) 2,300 s.p.m. (when stitch length is set to 4 mm)
<b>Stitch length</b>	0.1 to 12.7 mm
<b>Lift of the feeding frame</b>	Max. 25 mm (Max. 30 mm (pneumatic))
<b>Lift of the intermediate presser</b>	Max. 20 mm
<b>Needle (at the time of delivery)</b>	DPx5 #14 (for standard machine), DPx17 #23 (for the machine for heavy-weight materials)
<b>Hook</b>	Semi-rotary DP 1.8-fold capacity hook
<b>Input function</b>	Provided as standard
<b>Memory medium</b>	2DD/2HD 3.5" micro-floppy disk
<b>Number of stitches that can be stored in memory</b>	Max. 360,000 stitches (Max. 20,000 stitches/pattern)
<b>Number of patterns that can be input</b>	Max. 691
<b>Enlarging/reducing facility</b>	1 to 400% (by increasing/decreasing the stitch length or the number of stitches)
<b>Error detector function</b>	Needle thread breakage detector, temporary stop (pause)switch, error code indicating function
<b>Sewing machine motor</b>	400W Compact-sized AC servo motor
<b>Power supply/ power consumption</b>	Single-phase, 3-phase 600VA
<b>Weight</b>	120 kg
<b>Dimensions</b>	710 mm (L) x 1,200 mm (W) x 1,200 mm (H)

## When you place orders

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

**AMS-210D**       **SZ**

Sewing specification	
Standard	<b>S</b>
For heavy-weight materials	<b>H</b>

Feeding frame type	
Magnet-driven feeding frame	<b>S</b>
Pneumatic separately-driven feeding frame	<b>L</b>

Feeding frame		
For AMS	Standard	<b>5000</b>
	Subclass	<b>5001~</b>

• To order contact your nearest JUKI distributors.

(Note) The color of the product shown in photographs given in this catalog is slightly different from the actual color of the product.

# JUKI®

**JUKI CORPORATION**  
INTERNATIONAL SALES DIVISION  
8-2-1, KOKURYO-CHO,  
CHOFU-SHI, TOKYO 182, JAPAN  
PHONE : 03 (3430) 4001~5  
FAX : 03 (3430) 4909-4914-4984  
TELEX : J22967

\* 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.  
The description given in this catalog is as of July, 1996.