



**JUKI**

JUKI CORPORATION

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Allowing an inexperienced operator to achieve quality and productivity equal to or greater than those achieved by a skilled operator;  
**The edge control seamer "AE-200A Series", which promises delicate seams for sewing products of various designs, is launched.**



JUKI launches its automatic sewing machine "Edge control seamer, AE-200A", on the 11th of October, which allows even an inexperienced operator to carry out sewing at an equal or higher speed and achieves equivalent or higher quality as compared with a skilled operator due to its unique function for automatically controlling the material edges by means of sensors and manipulator devices.

Experience and skill are essential for the sewing process of joining curved parts of materials such as, in particular, runstitching sleeves and joining the sides of slacks. When the edge control seamer is used for this difficult process, even an inexperienced operator can easily carry out the joining of materials with consistency simply by placing the materials on the sewing machine, thereby dramatically improving the quality of finished products and increasing productivity.

JUKI commenced the release of the predecessor model edge control seamer in March, 1976 and sold thousands of units until we terminated its sales in March, 2003. The model enjoyed a reputation mainly in the domestic market as a productivity-boosting product.

The AE-200A is a new product based on the predecessor edge control seamer. It has been developed by digitalizing the adjustment functions of the conventional model and adding a new technology called "Active Pressure."

The world's major production sites for sewing products have been shifted to Asian countries such as China and the markets for these sewing products have matured. In this circumstance, sewing plants in these countries are struggling with the labor shortages and increased wages that Japan has experienced in the

past. To adapt to these changes in the labor environment, the need for sewing machines which ensure easy operation requiring no skill, higher quality and increased productivity has arisen. JUKI, having filled this need, is going to promote the AE-200A Series to the customers in these countries.

## **Features**

**The AE-200A Series comes in two different types; one for joining and one for pin-tucking.**

- The AE-200A comes in the following two different types to enable sewing requiring no skill, to achieve consistent quality and to increase productivity.

### **JUKI's unique technology**

- The sensor placed at the top of the manipulator device monitors the material-end position and the manipulator device controls the materials to adjust the seam allowance (material edge width) to a predetermined value. This is JUKI's unique technology. The joining type model has a pair of upper and lower manipulator devices to separately control the upper and lower materials, thereby speedily joining two plies of materials which are different in shape with a consistent seam allowance.

\*The manipulator device is JUKI's unique device which enables accurate joining of materials by controlling the pressure and rotation of the roller. (AP: Active Pressure)

When joining different materials and different-in-shape materials, the machine head's differential feed control function and manipulator pressure control function carry out "shirring" and "stretching" to adjust how they are joined, thereby ensuring the joining of materials without impairing their textural feeling.

- The differential feed amount and manipulator pressure are digitally controlled. Programmed sewing in 10 different sections is enabled at the maximum. Difficult joining of materials which has generally required skill can now be performed by numerically inputting upper/lower manipulator pressure values.
- Programs can be stored in the memory and can be easily invoked when changing sewing patterns, thereby substantially reducing operator manhours.
- The pin-tucking type model is able to beautifully sew pin tucks at uniform intervals, which is difficult for manual pin-tucking.

### **Productivity**

- When sewing a long sewing section, re-arrangement of the materials is not required. The sewing machine automatically and continuously sews the materials without stopping. As a result, the sewing time is reduced and productivity is increased.
- In comparison with the plastic pattern sewing system and the rail-feed system adopted by competitive models, the AE-200A does not require any changing of plastic patterns or rails at the time of sewing pattern changing, thereby reducing the setup time and running cost. Since the AE-200A does not use plastic patterns, the amount of waste is also reduced. The machine is, therefore, more eco-friendly than the competitive models.
- The "AC compact-sized servomotor + timing belt drive" system has been adopted. As a result, power

consumption is reduced by approximately 5 % as compared with JUKI's conventional model.

### **Operability and workability**

- Since the AP (Active Pressure) function has been adopted for the upper and lower manipulators, difficult joining of materials which has traditionally required skill can now be carried out by numerically inputting manipulator pressure values.

### **Application**

- The AE-200A is applicable to many different sewing processes such as sewing the center of the back and joining the sides of men's/ladies' jackets and skirts, etc.