information release

JUKI CORPORATION

November 19, 2008

Announcement of the release of new products

Computer-controlled cycle machine with input function
AMS-224E Series

The machine sews a wider sewing area at an increased sewing speed!
It dramatically reduces the cycle time.

JUKI proudly launches its "AMS-224E Series, Computer-controlled cycle machine with input function" on the 1st of December. The widely-applicable AMS-224E Series makes the most out of its wider sewing area for sewing shoes, attaching handles to bags and pouches, attaching belts, sewing many small parts at a time, attaching parts to shoes and sports shoes, and sewing air bags.

The AMS-224E is a completely changed model as a successor of the AMS-224C. The Series comes in two different models which are different in sewing area; the AMS-224E-4530 (450 mm (W) x 300 mm (L)) and the AMS-224E-6030 (600 mm (W) x 300 mm (L)).

By the launching of the AMS-224E, the AMS Series now contains models with various sewing areas from small to large, achieving a commonality of operation and sewing pattern data.

◆Features

Features of the AMS-224E

●Increased productivity

- The machine achieves the highest sewing speed of 2,500 rpm among other models with a similar sewing area. (With stitch lengths of 3 mm or less)
  (AMS-224C: Max. 2,000 rpm/Stitch length of 2.7 mm or less)

- By the adoption of a direct-drive system which provides excellent responsiveness, the accelerating/decelerating time at the beginning and end of sewing has been substantially reduced. In addition, the thread trimming speed and jump speed have also been increased to dramatically reduce the total cycle time.
  (AMS-224C: Externally-mounted V-belt system)

●Improved seam quality

- A stepping motor equipped with an encoder has been adopted for the feed mechanism.
  The motor helps reduce irregular stitches which are likely to occur during a changeover of the number of revolutions between high and low. (In comparison with the conventional model AMS-224C)
  In addition, any displacement of stitches (loss of synchronization) is also prevented.

- The minimum resolution is 0.05 mm. This makes a sewing pattern reproducing diagonal lines and curves with added accuracy.
  (AMS-224C: Minimum resolution 0.1 mm)

- The needle thread tension controller is provided with JUKI's exclusive active tension mechanism to achieve the optimum thread tension.
  In addition, the machine is provided as standard with a needle thread clamp mechanism for preventing slip-off of the needle thread at the beginning of sewing and protecting the needle thread from being stained.

- The machine comes with a semi-dry head. This head prevents the sewing material from being stained with oil.
  (AMS-224C: The frame (needle bar unit and thread take-up unit) is oiled from a tank by means of an oil wick.)

●Operability and workability

- The operation panel is a color liquid crystal touch panel with programming functions, IP-410.
  Pattern data can be entered/edited and a pattern data shape can be visually checked on the liquid crystal panel screen, thereby helping increase operating efficiency.
  (The AMS-224C: 7-segment panel)

- The lower part of the machine is also provided with a hand pulley to facilitate adjustment of the hook.

●Environmental friendliness and economic efficiency

- New technology: The encoder control and electrical components have been improved, resulting in a substantial decrease in power consumption during operation by "approximately 30 %" as compared with the conventional models.

◆Release date

December 1, 2008

Contact information for inquiries about the release

Industrial Sewing Machine Division	Tobita	☎81-3-3480-2358
Corporate Planning Department, Publicity section	Takahashi	☎81-3-3480-1742