information release

JUKI CORPORATION

July 25, 2011

The "AMS-224EN Series" computer-controlled cycle machine with an input function is newly launched, which has an increased sewing-pattern storage capacity on the main body

JUKI is launching the "AMS-224EN Series" with a dramatically-increased sewing-pattern storage capacity on the main body of the sewing machine. This machine is a new model of the AMS-224E Series. The new model inherits the established productivity, energy conservation and seam quality of the predecessor model.

The computer-controlled machine automatically performs sewing of patterns stored in its memory. The new model has the largest sewing area among the computer-controlled cycle machine AMS Series. It comes in two different types; one provided with a sewing area of "450 mm (W) x 300 mm (L)" and the other provided with a sewing area of "600 mm (W) x 300 mm (L)". The machine is used for attaching handles to bags, for sewing shape tacking of sports shoes, air bags and for sewing two or more pieces of small articles, such as sewing purses, at the same time.

The machine is provided as standard with a large-sized color LCD operation panel. It supports 14 different languages as standard. Sewing data such as the sewing shape, needle thread tension, enlargement/reduction, sewing speed and the number of stitches can be entered through the panel and stored in memory.

As compared with the predecessor model, the number of pieces of sewing data (the number of stitches) to be stored in the main body of the new "AMS-224EN Series" has been significantly increased from 20,000 stitches to 500,000 stitches, and the number of sewing patterns has been increased from 200 patterns to 999 patterns. This promises easy storage and calling of data, thereby improving operability. In addition, not

only CompactFlash cards, but also USB thumb drives and USB card readers are applicable as sewing pattern storage media.

JUKI is going to increase sales with this sewing machine which provides higher productivity and consistent seam quality in the countries where productivity-increasing sewing machines are demanded the most due to increasing labor cost and shortage of labor.

◆Features

●Operability and workability

- The operation panel is the "IP-420" color LCD touch panel. The sewing pattern data shape can be visually checked on the panel screen, thereby increasing work efficiency during entering/editing of data.
- The IP-420 is provided as standard with a USB connector. This means that USB thumb drives and USB card readers can be used in addition to CompactFlash cards, increasing the applicable types of storage media.
- The storage capacity of the main body of the sewing machine is 500,000 stitches and 999 patterns at the maximum. (The maximum number of stitches that can be stored in one sewing pattern is 50,000.)
- A hand pulley is additionally provided for the lower part of the sewing machine to facilitate adjustment of the hook.

●Productivity

- The maximum number of revolutions for this sewing area is 2,500 sti/min. (With the stitch length being 3 mm or less.)
- The sewing machine comes with the direct-drive system which promises excellent responsiveness.

●Seam quality

- The feed mechanism is provided with a stepping motor with an encoder. It reduces irregular stitches and prevents displacement of stitches (loss of synchronization) due to a change in the number of revolutions between high and low speeds.
- Since the minimum resolution is 0.05 mm, patterns with diagonal and curved lines can be created with increased accuracy.
- The machine is provided with JUKI's unique active tension mechanism, allowing the needle thread tension controller to achieve the best-tensed seams. In addition, the sewing machine is provided with the needle thread clamp mechanism to prevent slip-off of the needle thread at the beginning of sewing and prevent the needle thread from being stained.
- The sewing machine has adopted the semi-dry head to prevent the sewing material from being stained with oil.

●Environmental friendliness and economic efficiency

- The encoder-controlled feed motor reduces power consumption during operation by approximately 30 % as compared with the conventional model which does not use the encoder control.