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**Computer-controlled cycle machine with input functions
<for sewing pockets on jeans>,
which is able to substantially improve seam quality and productivity
for the sewing of pockets on jeans**



JUKI is launching the computer-controlled cycle machine "AMS-221EN-HS3020/7200", which automatically sews pockets on jeans. Once the start button is pressed, the sewing machine automatically sews a pocket on the jeans according to the pocket shape. This means that pockets are sewn with accuracy regardless of the sewing machine operator's skill. Furthermore, the time required for sewing a pocket is reduced by approximately half* as compared with manual pocket sewing with a lockstitch machine, thereby substantially increasing productivity.

* Approximately half the time needed for manual sewing: In comparison with the time an experienced operator takes to sew a pocket by means of the lockstitch machine

The computer-controlled cycle machine (AMS Series) automatically carries out pattern sewing according to the data stored in the memory and is mainly used for sewing designed stitch patterns on sports shoes. Based on the technologies of the conventional AMS Series, the AMS-221EN-HS3020/7200 enables the automatic sewing of two-line stitches on pockets by operating the pocket clamp plate back and forth. Furthermore, this model responds to a change of pocket size through the adjustment of the traveling stroke of the pocket clamp plate.

In addition, in the case where the optional stacker is used, jeans onto which pockets have just been sewn can be automatically brought to and stacked on the stacker. The use of the stacker allows the operator to attend to two sewing machines at a time, thereby eliminating wasted time

and increasing the productivity by 2.1-fold as compared with the manual pocket sewing with a lockstitch machine.

Pockets represent the quality of jeans. It is, therefore, required for the pocket sewing process to achieve high seam quality. JUKI is expanding its sales by supplying this model which provides increased productivity and consistent seam quality in various markets in the world, including those countries which attach importance to a production method which requires no operator skill and those seeking an increase in productivity because of labor-cost increases and labor shortages.

◆Features

●Promotion of production without requiring a skilled operator and improvement in product quality

- The machine's simplified operation allows the sewing machine operator to just simply place a pocket cloth, the cut edges of which have already been folded in the previous process, on the sewing machine. This means the operator's sewing skill is not required, thereby contributing to the realization of production without requiring the operators to have special skills.
- The traveling stroke of the pocket clamp plate can be adjusted according to the pocket size.
- JUKI's unique active tension mechanism is adopted to control the needle thread tension. This mechanism appropriately controls the needle thread tension according to the sewing conditions, such as the material and the section of garment to be sewn, thereby achieving improved seam quality.

●Productivity & Function

- The operator is able to attend to two sewing machines at one time by use of the SS-46 stacker (optional), thereby achieving higher productivity.
- Maximum stitching range of a pocket that can be sewn is 246mm(width) x 200mm(length).

●Energy saving

- A stepping motor provided with an encoder is adopted for the X-Y feed drive. This motor drives the X-Y feed mechanism according to the material thickness and stitch length with a minimum of power.