

# Juki®: World class sewing machinery technology

Outstanding strategies and systems for customer interface are an essential part of JUKI's current program to grow. On the technical level they continue to strengthen their capabilities in the fields in which they already excel, such as the SMT Systems business, based on industrial sewing machine technology. From the business perspective, they continue to reform their group-wide structure to synergize their collective prowess in manufacturing. Juki® with its agent Al-Murtaza Machinery Company highlighted following products in Pakistan.

## MOL-254 - Automatic 2-needle belt-loop attaching machine

The new machine head specifically developed for belt-loop attaching machines runs at a maximum sewing speed of 2500 rpm and is equipped with a direct-drive system that improves start up performance and shortens sewing time.

The belt-loop feeding device is now provided with a halfway standby capability for subsequent belt-loops, and its faster belt-loop supply action shortens the time required for supplying belt-loops and helps speed up the machine time to 1.2 seconds per belt-loop (with 28 stitches).

Belt-loops are fed by the conventional gear-roller feeding mechanism and also drawn out by the new drawing mechanism on the clamp device. Supported by these two mechanisms, the folding fork catches "curled" or "creased" belt-loops every time and supplies them to the head. In addition, the sensor of the clamp device detects the presence/absence of belt loops.

If it detects a faulty belt-loop feed, the clamp device automatically repeats the clamping action. Since the operator doesn't have to operate the set-back switch, less time is lost.

The machine quickly and reliably disposes splices without any delays in cycle time: The machine preliminarily detects each splice in the belt-loops and efficiently disposes them.

This means that when the machine carries out the splice-disposal procedure, the belt-loop feeding device can complete its belt-loop supply action and supply the next belt-loop well before the machine starts to sew. By detecting changes in the material thickness, the machine's potentiometer finds splice in belt-loops and disposes them perfectly.

The standard machine incorporates a 1.8 fold capacity shuttle hook. The shuttle hooks improves efficiency by reducing the frequency of bobbin thread replacement.

The machine offers improved flexibility, operability, workability and maintainability:

- ❖ The newly developed machine head comes with a computer controlled X-Y

linear feeding system which enables to program the number of stitches and size of bar tacking.

- ❖ Simple adjustment of the machine enables changeover of the cutting method between cross cutting and straight cutting.
- ❖ An electrical sliding mechanism is installed in the front hook (near the operator).
- ❖ To enable computer-controlled belt-loop supply performance, the machine has adopted a servomotor-driven belt-loop feeding device that feeds the belt-loops to the sewing position (i.e., under the presser foot).
- ❖ To improve workability in replacing belt-loops, the belt-loops insertion opening through which belt-loops are supplied to the feeding device is now located on the front side of the main unit.
- ❖ The machine is equipped as standard with an adjustable stand.

## AMS-210E Series – Computer controlled Cycle Machine with input function

In addition to the substantial improvement of seam quality and operability, the machine demonstrates flexible responsiveness to diverse kinds of materials. The machine achieves uniformly tensed seams with increased accuracy:

Market-proven active tension has been introduced to the needle thread tension controller. With the active tension, pinpoint changes in the needle thread tension during sewing are enabled. The needle thread tension, therefore, can be set in conjunction with the material thickness and can be cor-



AMS-210EHS-1306



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rected according to the direction of sewing on a stitch-by-stitch basis through the operation panel.

Height of the intermediate presser can be adjusted during sewing: To support the sewing of multi-layered parts of materials, the lower dead point height of the intermediate pressure can be changed steplessly during sewing (standard: 0~3.5mm; maximum: 0~7.0mm). The intermediate presser stoke is adjustable between 0 and 10mm.

The advanced dry technology prevents oil stains: The frame (needle bar unit and thread take-up unit) is lubricated with grease and the hook is fed with a minute quantity of oil from the oil tank. Juki's advanced dry technology, which is utilized in a number of their sewing models, protects products from being stained with oil.

## An introduction to the improved Juki subclass model – AMS-210 EHL-1306/7300

The machine with a slide-type thread take-up lever is designed for improved stitching with heavy threads tension. Juki's unique active tension mechanism which has been re-designed specifically for heavy-weight materials, as well as the slide-type thread take-up lever which is suited for sewing heavy-weight materials, increase the maximum tension by 50% more compared to that of the standard models of the Juki AMS Series machines. The new model improves seam quality (thread tension) for sewing seat belts and general heavy-weight materials such as container belts and bags. ◆