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JUKI newly launches the "AMS-251" 1-needle CNC sewing machine (machine-head turning type) which produces the highest-quality seams with its machine-head turning mechanism.



JUKI has made a major change to the sewing machine mechanisms which automatically sew sewing patterns stored in memory and has developed the "AMS-251, 1-needle CNC sewing machine (machine-head turning type)", and is going to launch it on the 21st of March, 2017 both in domestic and overseas markets. This newly-developed AMS-251 is able to achieve the highest-quality seams when sewing decorative stitches on car seats, luxury bags and school bags.

This model of sewing machine is developed for sewing decorative stitches on genuine leather and vinyl leather. It performs sewing automatically according the sewing patterns stored in the data storage of panel. The sewing machine has the new mechanism which turns the sewing machine head by 180 degrees and the mechanism which moves the sewing material back and forth and right and left. Combination of these mechanisms enables the sewing machine to sew complicated patterns and to produce "attractive" seams. Furthermore, the "hook and needle" timing and the control of "machine head and hook rotational direction" are synchronized with the sewing machine-head turning, thereby ensuring uniform stitch pitches, evenly-tensed seams and uniform stitch shapes.

This sewing machine has realized the largest sewing range among JUKI's sewing machines intended for non-apparel products. Since the sewing machine is able to complete sewing within the area of 100 cm (width) x 60 cm (length) in a single sewing, it is applicable to the sewing of large-size products such as car

seats and air bags as well as multiple pieces of bags, thereby contributing to increased productivity.

In addition, its machine head goes up by 5 cm to allow the operator to take out finished products and place the next sewing material on the sewing machine with ease, thereby reducing the setup time.

JUKI is going to offer our newly-developed "AMS-251" which combines excellent seam quality and increased productivity to support the customers with the production of their production items. In addition, we are advancing our proposal on "JUKI Smart Solutions" which helps the customers solve their problems such as improvement with respect to productivity, labor-saving, deskilling, ease of work and product quality as well as assists the customers to create the best factories.

◆Features

●Improvement of seam quality

- Thanks to the machine-head turning mechanism, the sewing machine is able to sew perfect stitches regardless of the sewing direction, thereby achieving uniform and high seam quality.
- The sewing machine unfailingly sews decorative stitches on car seats, luxury bags and school bags, as well as sews air bags, all of which do not permit the occurrence of irregular stitches.
- Slip-ring system is adopted for turning the machine head. As a result, even when sewing a complicated-shape sewing pattern, it is possible to perform sewing continuously without stopping the sewing machine and returning the turning direction of machine head.

●Sewing range

- The sewing range of the AMS-251 is 100 cm (width) x 60 cm (length). With this large sewing area, the sewing machine is able to sew large sewing items and multiple pieces of products in a single sewing, thereby improving productivity.

●Operability and workability

- Machine head lifting/lowering function (5 cm) enables easy attachment of the feeding frame, thereby reducing the setup time.
- Conventionally, in the case of a large sewing machine, the operator has to get under the sewing machine to change the bobbin. However, the AMS-251 is provided as standard with the opening/closing window for bobbin replacement. As a result, the operator is now able to change the bobbin without getting under the sewing machine.
- Adoption of the 3-fold capacity hook reduces the number of times of bobbin thread changing, thereby contributing to improved productivity.