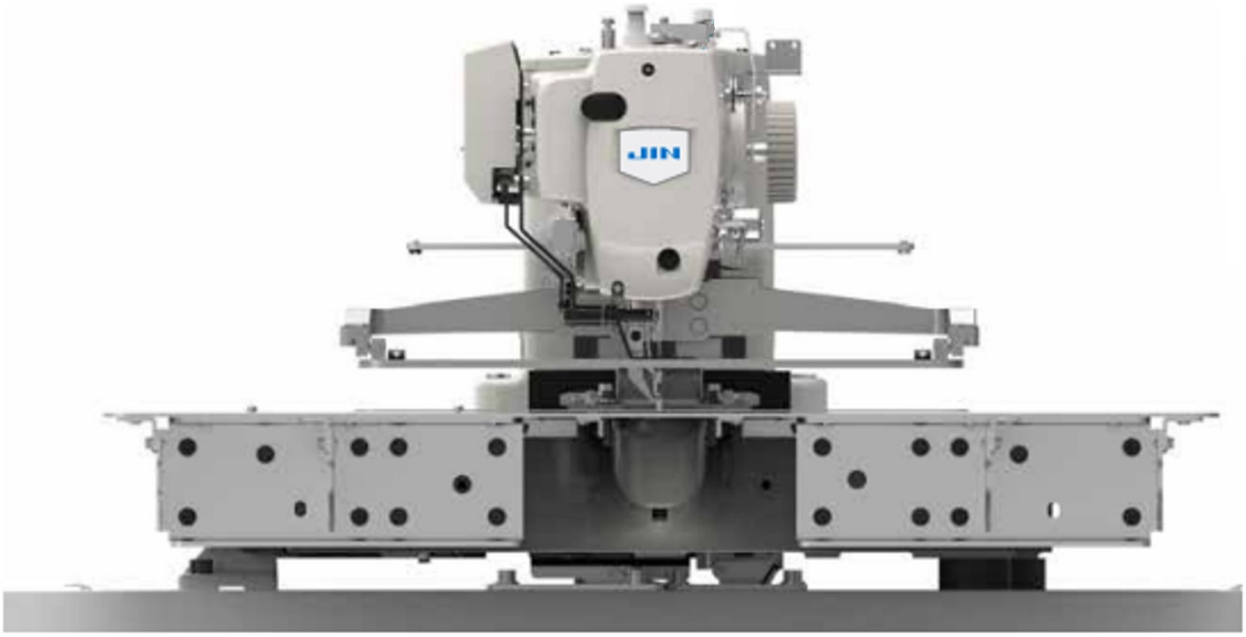
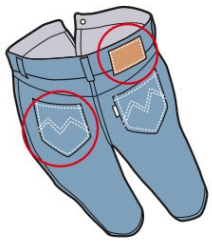
NAP-3020 Series

Computer-controlled Cycle Machine with Input Function





Cycle time is shortened.

- The sewing machine has achieved the industry's highest sewing speed of 2,800sti/min. The maximum sewing speed is reached by the 2nd stitch from the beginning of sewing. Since the sewing machine maintains its highest sewing speed immediately before the end of sewing and instantaneously decreases its speed, cycle time can be substantially decreased.
- **Jin's** unique stepping-motor controlled thread trimming mechanism is adopted to enable speedy and consistent thread trimming performance.
- The machine demonstrates enhanced responsiveness due to the adoption of a main-shaft direct-drive system.

Max. sewing speed	The machine achieves the highest sewing speed of 2,800sti/min for a computer-controlled cycle machine.
Instantaneous acceleration	The maximum sewing speed is reached by the 2nd stitch from the beginning of sewing.
Instantaneous deceleration	Instantaneous deceleration: The machine remains at the maximum sewing speed until just before the end of sewing and decelerates instantaneously.
Thread trimming	A stepping-motor controlled thread trimming mechanism is employed to perform high-speed thread trimming without fail.

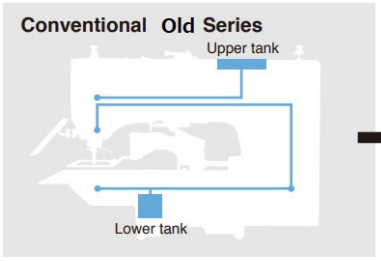
NAP-3020

The machine supports a broader range of materials and various sewing specifications.

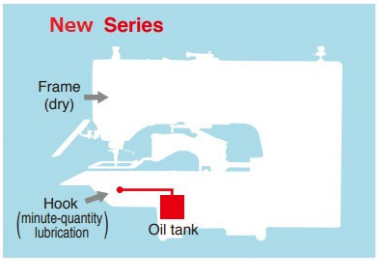
Features

Semi-dry head

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. **Jin's** advanced dry technology, which is utilized in a number of our sewing machine models, protects your products from being stained with oil.



Lubrication/circulation diagram



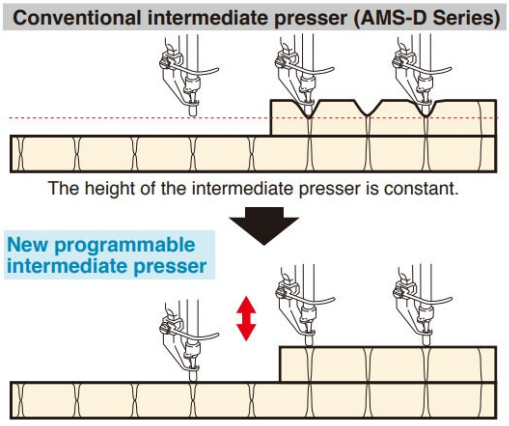
Lubrication diagram

Active tension

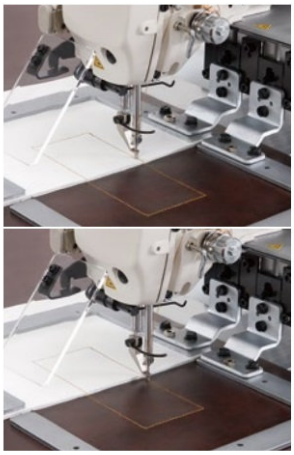
Market-proven active tension has been introduced to the needle thread tension controller. With the active tension, pinpoint changes in the needle thread tension during sewing are enabled. The needle thread tension, therefore, can be set in conjunction with the material thickness and can be corrected according to the direction of sewing on a stitch-by-stitch basis through the operation panel. Since the needle thread tension is reproducible, supporting a broader range of sewing conditions, the time required for setup changing upon process changeover can be reduced.

Programmable intermediate presser

To support the sewing of multi-layered parts of materials, the lower dead point height of the intermediate presser can be changed steplessly during sewing (standard: 0~3.5mm; maximum: 0~7.0mm). The intermediate presser will now be able to clamp the material without fail, thereby preventing troubles in sewing, such as stitch skipping and thread breakage. Furthermore, flaws on the sewing product are prevented by maintaining the intermediate height as desired according to the material thickness. (The intermediate presser stroke is adjustable between 0 and 10mm.)



The intermediate presser goes up and comes down according to the material thickness.



Improvement of seam quality

The position of the feed can be checked during sewing by means of the encoder-controlled X-Y drive stepping motor. This remarkably improves accuracy of the feed. As a result, deformation of a sewing pattern which is likely to occur when sewing at a high speed or sewing a heavy-weight material is significantly reduced.

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