

December 18, 2014

JUKI has launched its new "LK-1900BB Series" computer-controlled, high-speed, bartacking machine provided with the newly-developed "bird's nest preventing and shorter-thread remaining" mechanisms to ensure improved quality of the seams on the wrong side of the material.



JUKI has added new subclass model LK-1900BB to the computer-controlled, high-speed, bartacking machine LK-1900B Series to (launched in January, 2014). This subclass model is installed with two new functions; i.e., bird's nest preventing and shorter-thread remaining functions for improving the seam quality on the wrong side of the material. It has been launched from November, 2014 in the overseas markets and is scheduled to be launched on December 22, 2014 in the Japanese market. This is the world's first bartacking machine provided with both of these two functions.

The "bird's nest preventing" function prevents thread remaining on the wrong side of the material from being entangled at the beginning of sewing of bartacks. The bird's nest preventing mechanism clamps the thread at the beginning of sewing and trims it during sewing. As a result, the seam is finished more neatly to eliminate any rough appearance.

The "shorter-thread remaining" function trims the thread remaining on the material at the end of sewing of bartacks as short as possible. After the normal thread trimming operation, the shorter-thread remaining mechanism further trims the remaining thread as short as 2 mm or less, while the existing model leaves a thread of 5 mm or less on the material at the end of sewing. Thanks to this function, manual thread nipping after sewing is no longer required, thereby

substantially increasing productivity.

In addition, this model with both the "bird's nest preventing and shorter-thread remaining" functions finishes with soft and smooth seams on the wrong side of the material, thereby further improving the feel of underwear such as brassieres and running shirts.

JUKI expects to expand the sales of bartacking machines with this new subclass model, which not only achieves the world's highest class sewing speed, convenience and operability, but also promises the world's highest class quality of bartack sewing utilizing its new "bird's nest preventing and shorter-thread remaining" mechanisms.

◆Features

●Higher productivity.

- The machine achieves sewing speed of 3,200sti/min. The machine's starting, stopping, thread-trimming and automatic presser lifting speeds have been increased to significantly shorten total cycle time.

●The bird's nest preventing / shorter thread remaining functions

<The world's first>

- **The sewing machine eliminates so-called "bird's nests" (thread tangling in on the wrong side of the material at the beginning of sewing).**

The thread is retained at the beginning of sewing and any excess thread is trimmed during sewing. As a result, the length of thread sewn in the seam is shortened, thereby achieving high-quality sewing performance while preventing thread from tangling in on the wrong side "of the material."

- **The "shorter-thread remaining" mechanism, which operates at the end of sewing, trims the thread remaining on the bartack as short as 2 mm or less.**

The newly developed sewing-end shorter-thread remaining mechanism re-trims the thread remaining on the bartack after the completion of regular thread trimming, thereby eliminating conventionally-required manual thread nipping after sewing. The mechanism, in addition, sucks trimmed thread waste and feeds it to a cloth chip chute bag. As a result, sewing products are kept clean and free from lint.

* Use #60-80 (TEX22-30) polyester spun thread

- **Improvement in sewing quality**

Users who are conscious about the finished quality of products manually nip, with scissors, the thread remaining on the material after thread trimming at the end of sewing. Now, the bartacking machine with the bird's nest preventing/shorter thread remaining functions saves such users the trouble of nipping the thread, thereby preventing the sewing product from being damaged by manual thread-nipping with scissors. The seams on the wrong side of the material are finished softer, contributing to more comfortable feel against the skin.

●Energy saving

- An encoder is installed in the pulse motor, thereby achieving substantially improved power-consumption saving. This sewing machine reduces power consumption by 15% as compared with the conventional models.