

November 19, 2014

JUKI has launched its new "LK-1903BB Series" computer-controlled, high-speed, lockstitch, button sewing 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 a subclass model to the LK-1903B Series computer-controlled, high-speed, lockstitch, button sewing machine (launched in January, 2014) and will launch it in November, 2014 both in Japan and overseas. This new subclass model is provided with two new functions; i.e., "bird's nest preventing function" and "shorter-thread remaining function". This is the world's first lockstitch button sewing machine provided with both of these two functions.

The "bird's nest preventing" function works to prevent the thread from tangling in on the wrong side of the material at the beginning of the sewing of a button. The thread is clamped at the beginning of sewing to allow any excess of the thread to be trimmed during sewing. This function contributes to a neater finish of seams with no bulky portions.

The "shorter-thread remaining" function works to trim the remaining thread on the button at the end of sewing as short as possible. This new mechanism further trims the thread after the completion of regular thread trimming operations. The existing model leaves a thread length of approximately 5 mm or less on the button at the end of sewing. This new subclass model, however, only leaves a thread length as short as "2 mm or less" on the button. As a result, manual thread nipping after button sewing operations is no longer required, thereby contributing to substantially increased productivity.

In addition, manual thread nipping with a pair of scissors, which is required when using the existing model, can accidentally damage the finished product. The new subclass model eliminates this problem. Finished seams on the wrong side of the material are not only softer in appearance, but also more comfortable to the touch.

JUKI expects to expand the sales of button sewing 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 button sewing utilizing its new "bird's nest preventing and shorter-thread remaining" mechanisms.

◆Features

●Higher productivity.

- The machine achieves sewing speed of 2,700sti/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 button as short as 2 mm or less.**

The newly developed sewing-end shorter-thread remaining mechanism re-trims the thread remaining on the button 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 button sewing 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.