

December 18, 2014

**Computer-controlled, high-speed, lockstitch buttonholing machine
"LBH-1790A Series"
simplified indexer with a 220-mm presser foot is now launched**



LBH-1796A (when installed with the optional simplified indexer components)

JUKI has added a new model with a 220-mm presser foot to the computer-controlled, high-speed, lockstitch buttonholing machine "LBH-1790A Series" and is launching it in overseas markets from December, 2014. The model with a presser foot, the length of which is 220 mm, can be used as a simplified indexer only by installing optional parts, thereby substantially increasing productivity.

The LBH-1796A (with a 220-mm presser foot) has a presser foot the size of which is substantially increased as compared with the existing model LBH-1795A (with a 120-mm presser foot). Thanks to the longer size of the presser foot (220 mm), the sewing machine is able to sew three buttonholes successively on a dress shirt, etc. In addition, the jump speed is increased by 2.7 times as compared with that of the existing model, thereby shortening the cycle time and increasing productivity. The machine head mechanism has been optimized for improved maintainability and operability.

The sewing machine can also be used as a simplified indexer by installing optional parts. By using the LBH-1796A as an indexer, an operator with no technical skills is able to finish higher-quality buttonholes with consistency, attend to two units of this model at a time without requiring assistance by another operator and/or use this model in combination with a button sewing machine. This contributes to further increased productivity. Since the simplified indexer is

smaller in size as compared with the automatic sewing machine (AC-172N-1790), easy layout change is promised when introducing it into the production line.

This model inherits the functions and performance of the LBH-1790A Series, such as the world's highest sewing speed, deeply recessed shape of the machine head and dry head structure. JUKI expects to expand its sales with the new lockstitch buttonholing machines which are now added to the new model "LBH-1796A (with a 220-mm presser foot).

◆ Features

● Higher productivity.

- The maximum sewing speed is 4,200 sti/min., and the jump speed is 540 mm/s(2.7 times). The cycle time has been further reduced for continuous sewing.

● Excellent workability and operability.

- The 220-mm presser foot type model is able to sew three buttons on a dress shirt, etc. in succession simply by placing the material on the sewing machine once. The sewing machine can be used as a simplified indexer for lockstitch buttonholing by installing the optional parts for the indexer. As a result, one operator is able to operate two units of the sewing machine simultaneously to complete the buttonholing of one dress shirt in 14 seconds (*). One operator can also operate this model and the lockstitch button sewing machine (LK-1903B) at the same time. This means the LBH-1796A allows various operating styles in combinations with other sewing machines according to the needs of the sewing plant, thereby contributing to increased productivity. Furthermore, the use of the simplified indexer achieves production without requiring skilled operators, ensuring consistent quality of the finished products.

* The production volume varies with sewing conditions, etc.

- All drive mechanisms are digitalized. The work clamp pressure can be easily set since it is driven by a digitally-controlled stepping motor. As a result, the work clamp pressure can be controlled to achieve reproducibility on a pattern-by-pattern basis.
- The adoption of a stepping motor reduces the operating noise of the knife when it cuts a buttonhole to help achieve an operator-friendly work environment.
- The illuminance of the LED light is adjustable and is located on the underside of the arm jaw. It is provided as standard for all models of the LBH-1790A Series.
- The memory storage capability of the main body of the sewing machine has been dramatically enhanced. Now the USB-ready main body of the sewing machine uses many different kinds of media. The main body of the sewing machine is provided as standard with a USB port. Now, data can be input/output to/from various kinds of media (SD (Secure Digital Card), CF (Compact Flash), etc.) by means of a USB thumb device and a card reader.

● Energy saving

- An encoder is installed in the pulse motor, thereby achieving substantially improved power-consumption saving. This sewing machine reduces power consumption by 27% as compared with the conventional models.

● Launching date : December, 2014