

Electronic lockstitch pattern tacker

KE-434C

- Fast cycle time increase productivity
- Forms attractive seams
- High-capacity built-in motor system gives excellent cost performance



Dramatically improves productivity, product quality and ease of use

Increase productivity

The Max. sewing speed of 2,500 rpm and a compact induction motor which is integrated with the machine head both help to reduce overall cycle time and increase productivity.

Attractive and accurate seams

• Thread take-up device

A thread take-up device is equipped. After the thread is trimmed, an upper thread trailing length with an extra 15 mm of length can be left, which is handy when sewing light materials where normal trailing thread lengths can often lead to the thread pulling out. (Thread trailing lengths may vary depending on the type of thread used.)



• Accurate home position detection

The home position sensor incorporates a non-optical proximity sensor, so the sensor is not subject to operating errors from oil or dust, and cleaning oil and dust from the sensor are also unnecessary.

Attractive and accurate seams

- **Highest-quality thread tightness**

An improved thread take-up lever means that the thread take-up amount is optimum, allowing the highest-quality thread tightness to be obtained regardless of the type of material.

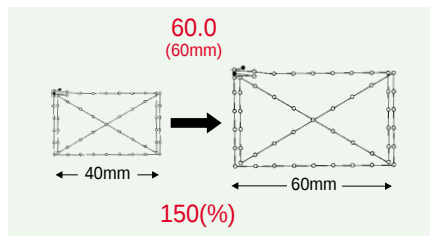
- **Prevent staining of the thread**

The oil supplied to the rotary hook is kept clean at all times, which helps to prevent staining of the thread.

Superb ease of operation greatly increases working efficiency

- **Enlargement and reduction ratios can be entered in length**

Enlargement and reduction of the sewing patterns can be set at a touch using the operating panel. The ratios can be entered either as a percentage or in length(mm) (determined by DIP switch setting.)



- **Smooth pedal operation**

The foot switch needs only a light pedal pressure to operate. This reduces the operator's working fatigue and gives better work efficiency.

- **Abundant data storage capacity**

Maximum No. of stitches are 20,000. Up to a maximum of 16 user programs can be created, each with its own sewing pattern, enlargement ratio and sewing speed.

- **Easy-to-use independent operating panel**

The operator can select whichever position is easiest to use.



Above the work table Below the work table

- **Cycle sewing**

Up to 4 cycle sewing patterns can be programmed. Max 15 patterns/cycle can be programmed.

Built-in Motor system

- **Low noise and low vibration**

Integration of the motor and the machine head and the adoption of a timing belt make sewing machine operation much quieter and reduce machine vibration.

- **Easier maintenance**

Periodic adjustment of the belt tension and adjustment of the motor position are no longer necessary. The machine head can also be tilted back to carry out adjustments without the need to remove the belt cover.

- **Easier torque adjustment**

The torque can be changed by replacing the machine pulley and the P-ROM. This makes it possible to handle heavy materials and thick threads. (This is available by special order.)

- **No contamination of the material**

The adoption of a timing belt eliminates the problem of belt shavings soiling sewing products.



100 × 60 mm sewing area

- This is ideal for plain stitching of small articles and for attaching curtain darts.
- Any pattern desired can be sewn within the 100 × 60 mm sewing area.
- The machine comes in both solenoid type and pneumatic type specifications. The pneumatic type machine lets you change the operation of the work clamp by changing the mode setting, so that the work clamp operation that best suits the particular application can be selected.

Simultaneous LR work clamp mode (left and right work clamp are raised and lowered at the same time)

Separate LR work clamp mode (left and right work clamp are raised and lowered separately)

Light work clamp mode (before sewing begins the article is pressed lightly, allowing more accurate positioning)

- An inner clamping device is provided in order to guarantee beautiful finishes when carrying out closed pattern sewing operations such as the attaching of labels.



Pattern example

Solenoid type specifications (one step work clamping)

Tongue tacking stitch
Safety belt attaching stitch
Curtain darts stitch

Pneumatic specifications with separate LR work clamp mode (double step work clamping)

It is best suited when sewing is carried out while positioning to the body and while pressing the body in advance.

Label attaching, Front hook attaching stitch

Pneumatic specifications with inner clamping device

It is best if you can minimize the seam allowance.

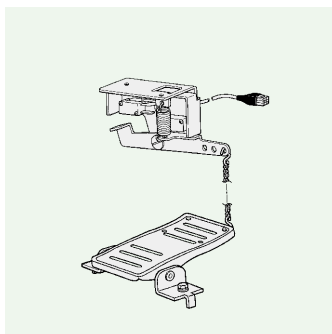
Name attaching
Magic tape attaching
Label attaching stitch



Options

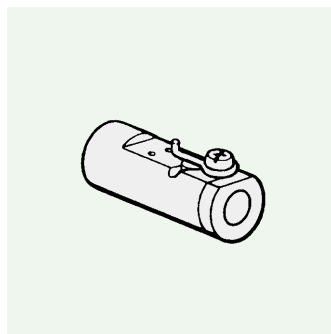
Two-step foot switch (for solenoid type specifications)

This is a pedal-type foot switch.



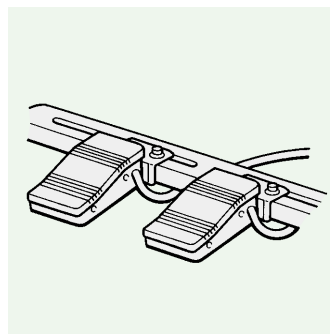
Liquid cooling tank

This helps to prevent thread breakage caused by friction when using synthetic threads. Fill the tank with silicone oil.



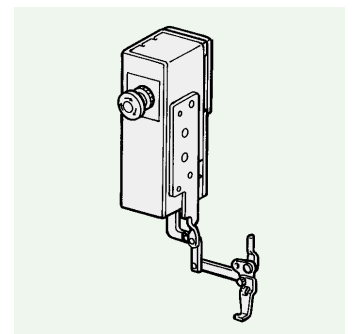
Two-pedal foot switch*

The presser switch and the start switch have been separated, giving the operator more flexibility to select the best method of working.



Solenoid thread wiper*

This wipes the thread independently of the work clamp operation.



*KE-434C pneumatic specification: standard equipment

Three-pedal foot switch (for pneumatic specifications)

The presser (left) switch, the presser (right) switch and the start switch have been separated, giving the operator more flexibility to select the best method of working.

Specifications

KE-434C-X

	Material
1	Medium materials
2	Heavy materials

At the time of shipment, the P-ROM for the KE-434C-X will be blank and the presser foot and feed plate will be unmodified. The presser foot, feed plate and P-ROM specifications can be specified in detail to suit your requirements when ordering.



Pneumatic type

Model	Lock stitch	Standard hook	Medium materials	Heavy materials	Sewing area	Stitch length	Thread trimmer	Thread wiper	Max. sewing speed
KE-434C	★	★	★	★	100 × 60 mm	0.1-10.0 mm	★	★	2,500 rpm

Feed mechanism	R-θ intermittent feed mechanism (pulse-motor driven mechanism)
No. of stitches	Variable
Max. stitch number	20,000 stitches (including 10,000 stitches which can be added)
Work clamp lifter	Solenoid type, Pneumatic type
Work clamp height	Solenoid type: 17 mm max. Pneumatic type: 25 mm max. (inner clamping device: 17 mm max.)
Thread take-up device	Standard equipment
Data storage method	P-ROM (Any sewing pattern can be added using PS-3000.)
No. of user programs	16
No. of cycle programs	4
No. of stored data	Up to 100 patterns can be added. Total number of stitches of stored data which can be added is within 10,000.
Enlarging and reducing patterns	20 – 200 %
Motor	Three-phase 400 W induction motor
Weights	115.6 kg (Single-phase), 110.6 kg (3-phase 400 V), 105.6 kg (3-phase 220 V, 380 V) Machine head: 49 kg Operation panel: 0.6 kg Control box: 19 kg (Single-phase), 14 kg (3-phase 400 V), 9 kg (3-phase 220 V, 380 V)
Power source	Single-phase 110 V, 220-230 V, 240 V Three-phase 220 V, 380 V, 400 V, Maximum electric power consumption 600 VA
Safety device	Intermediate stop function

Peripheral equipment

PS-3000

Programming software for electronic pattern sewer

The PS-3000 is a software package which lets you create new patterns using a personal computer. (A ROM writer is required.)



Product specifications are subject to change for improvement without notice. Please read instruction manual before using the machine for safety operation.

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