

# KE-430FX

Electronic direct drive lockstitch bar tacker

# BE-438FX

Electronic direct drive lockstitch button sewer

Stable thread tightening and thread trimmer when sewing from foundation to denim applications. High quality sewing will be realized for various materials.

- Extremely low noise and vibration for operator-friendly sewing
- Overwhelmingly superior productivity with the world's top-class cycle time
- Stable sewing quality with Digital Tension
- Clean sewing with semi-dry type
- Environment-conscious



Quality & Speed

# Quality & Speed

Stable thread tightening and thread trimmer when sewing from foundation to denim applications. High quality sewing will be realized for various materials.

## 1 Beautiful Sewing with Operator-friendly Environment

### Ideal thread take-up for each material, light and heavy

In addition to the recognized stability of thread tightening for heavy materials, new best suitable thread take-up is added, which can be used from light materials to medium materials. It greatly improves sewing quality for light materials.

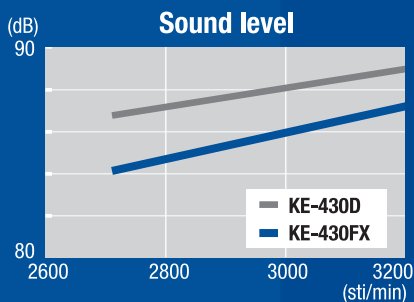
### Less thread cast-off and bird nest at the sewing start

Newly added thread trimming function which cut threads after the upper shaft is stopped can steady the thread end length. Improved nipper decreases thread cast-off and bird nesting at the sewing start.



### Extremely low noise and vibration for operator-friendly Sewing

Optimal design for casting and rotational mechanism by computer analysis, optimal control for direct drive motor and feeding motor reduced sewing noise and vibration greatly. It helps reduce stress and fatigue of operators and supply operator-friendly environment.



5

3

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## 2 Overwhelmingly superior productivity with the world's top-class cycle time

Since a direct drive system is used, the KE-430FX boasts the world's top-class sewing speed 3,200 sti/min in shuttle hook sewing machines. Since the work clamp lift amount can be set in two steps, it contributes to enhanced productivity.

## 3 Digital tension as standard equipment

Digital Tension is equipped as standard so you can adjust the tension appropriately for the material being sewn. No more relying on individual feel, changing the thread tension can be added onto the sewing programs.



## 4 User-friendly Operation Panel

The operation panel is designed to be user-friendly and to improve the ease of operation. Sewing patterns, sewing speed and upper thread tension can be memorized as user programs. Other useful functions such as production counter and lower thread counter are available.

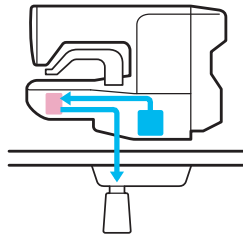
**SD card slot**  
Sewing patterns can be added and copied easily.





## 5 Clean Sewing with Semi-dry Type

All bar tacker and button attaching models are semi-dry type. They supply constant clean oil only to the shuttle hook, there is no concern of oil staining from needle bar area. The direct drive system, having no belt shavings can keep products clean.



## 6 Quick Change Device for Easy Work Clamp Change

The work clamp can be easily replaced by loosening the bolt and moving the work clamp arm levers.

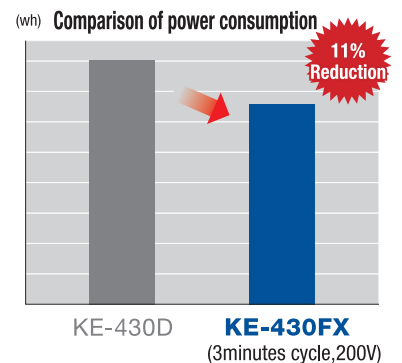


## 7 Easy Maintenance

The KE-430FX provides an easy maintenance, thanks to its long life cycle of the grease.

## 8 High Energy Saving

New Brother-developed motor realizes high energy saving with direct drive system which minimizes loss of power transmission. The KE-430FX exercises strong sewing with less energy.



# Sewing Patterns List (KE-430FX)

The sewing patterns shown below have been preset into the sewing machine and can be selected according to specifications. (Any sewing pattern is available as long as it is within the work clamp and feed plate in size.)  
Use the work clamp and feed plate that match the respective sewing pattern selected.

## For medium materials

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
8		21	7x2	5		29	10x2	64*1		30	16x2
68*1		22	7x2	67*1		30	10x2	4		31	16x2
20		28	7x2	13		35	10x2	66*1		32	16x2
71*1		29	7x2	69*1		36	10x2	1		42	16x2
21		35	7x2	15		42	10x2	65*1		43	16x2
72*1		36	7x2	70*1		43	10x2	89		90	24x3

## For heavy materials

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
6		30	16x3	3		35	20x3	17		42	24x3
80*1		31	16x3	63		35	20x3	83*1		43	24x3
14		35	16x3	79*1		36	20x3	18		56	24x3
81*1		36	16x3	2		42	20x3	84*1		57	24x3
16		43	16x3	62		42	20x3	19		64	24x3
82*1		44	16x3	78*1		43	20x3	85*1		65	24x3

## For knitted materials and foundation garments

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
22		14	7x2	33*2		15	8x2	77*2		28	8x2
75*1		15	7x2	32*2		22	8x2	7		29	8x2
9		21	7x2	77*2		23	8x2	31*2		29	8x2
74*1		22	7x2	7		28	8x2				

\*1 Use with the thread nipper device. \*2 The sewing start and sewing end are in the middle pattern

## Straight bar tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)
10		21	10x0.3
11		28	10x0.3
12		28	20x0.3
23		35	25x0.3
24		42	25x0.3
25		45	25x0.3

## Vertical zigzag stitching

No.	Sewing pattern	No. of stitches	Length x Width (mm)
44		46	9x15
45		70	9x25

**Vertical bar tacking**

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
26		28	3x10	41		36	3x16
27		35	3x10	42		44	3x20
40		32	3x16	43		68	3x24

**Vertical straight bar tacking**

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
28		19	0.3x10	46		27	0.3x20
29		21	0.3x10	47		44	0.3x25
30		28	0.3x10				

**Crescent bar tacking**

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
34		35	12x7	36		57	7x12	38		53	7x10
35		58	12x7	37		57	7x12	39		53	7x10

**Crossed stitching**

No.	Sewing pattern	No. of stitches	Length x Width (mm)
48		70	10x10
49		93	9.6x9.6

**Crossed tacking**

No.	Sewing pattern	No. of stitches	Length x Width (mm)
50		84	16x16
51		105	30x26

**Specifications/**

# KE-430FX-0



	Application
3	Medium materials
5	Heavy materials
K	Knitted materials
F	Foundation garments

# BE-438FX



KE-430FX	03	05	OK	OF	BE-438FX
Application	Medium materials	Heavy materials	Knitted materials	Foundation garments	Button attaching
Stitch formation	Single needle lock stitch				
Max. sewing speed	3,200 sti/min				2,700sti/min
Sewing area	Max.40×30mm				Max.6.4×6.4mm
Dimensions of buttons that can be Sewn	-				Outer diameter of buttons*1
Stitch length	0.05~12.7mm				0.05~6.4mm
Feed mechanism	Y-θ intermittent feed mechanism(pulse-motor driven mechanism)				
No. of stitches	Variable(Refer to "Program List" for details on the number of stitches for sewing patterns that are already preset.)				
Max. No. of stitches	5,000 stitches/pattern				
Work clamp lifter	Pulse motor drive system				
Work clamp height / Button clamp height	Max. 17mm				Max. 13mm
Rotary hook	Shuttle hook(double size shuttle hook, optional)				
Digital tension	Standard equipment				
Thread wiper	Standard equipment				
Thead trimmer	Standard equipment				
Thread nipper	-3,-K,-F:Standard equipment				
Data storage method	Flash memory(Any sewing pattern can be added using SD card)				
External data storage method	SD card*2				
No. of cycle programs	30 cycle(50 programs for each cycle)				
No. of stored data	89 sewing patterns are set already				64 sewing pattern are set already
	(Up to 512 patterns can be added. Total number of stitches of stored data which can be added is within 500,000.*3)				
Motor	AC servo motor 550W(Direct Drive)				
Weight	Machine head: Approx. 57kg, Operation panel: Approx.0.4kg Control box: Approx. 9kg				
Power supply	Single-phase 110V/220V/230V 3-phase 220V/380V/400V 400VA				

\*1 Use the optional button clamp B(S03634-101) for diameters of 20 mm or greater.

\*2 Available capacities up to 2GB. No guarantees of operation can be given for any media.

\*3 The number of sewing patterns and the number of stitches that can be recorded will vary depending on the number of stitches in each sewing pattern.



## RoHS Compliant

KE-430FX and BE-438FX are compliant with the RoHS Directive(the restriction of the use of certain hazardous substances in electrical and electronic equipment) which came into effect in the EU in July 2006.



Brother has established voluntary environmental standards for products and created the "Brother Green Label". KE-430FX and BE-438FX are certified as an environment-conscious sewing machine according to the "Brother Green Label" standard.



Please read instruction manual before using the machine for safety operation.

-Product specifications are subject to change for improvement without notice.

-Photographs are for illustration purpose. They may not represent actual operating conditions and may display optional parts.

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