

# KE-430FS

## Electronic direct drive lockstitch bar tacker

Stable thread tightening and thread trimmer when sewing from medium materials to heavy materials. High quality sewing will be realized on various materials.

With extremely low noise and vibration, it provides operator-friendly sewing environment.

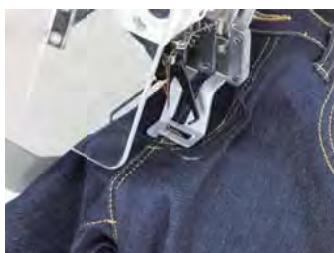
- Beautiful and stable sewing
- Extremely low noise and vibration for operator-friendly sewing
- Environment-conscious



## Quality & Speed

### 1 Greatly improves the sewing quality

In addition to the stability of sewing for heavy materials, new suitable thread take-up for medium materials is added. With the best thread take-up for each material, it greatly improves the sewing quality. Moreover, basic spring tension is a standard equipment in order for operators to adjust texture directly.



### 2 Extremely low noise and vibration for operator-friendly sewing

Optimal design 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.

### 3 High Energy Saving

New Brother-developed motor realizes high energy saving with direct drive system which minimizes loss of power transmission.

# Sewing Patterns List (KE-430FS)

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.	Length x Width (mm)	No. of stitches	Sewing pattern	No. of stitches	Length x Width (mm)
8		21	7×2	5	10×2	29		64 <sup>1</sup>	16×2
68 <sup>1</sup>		22	7×2	67 <sup>1</sup>	10×2	30		4	16×2
20		28	7×2	13	10×2	35		66 <sup>1</sup>	16×2
71 <sup>1</sup>		29	7×2	69 <sup>1</sup>	10×2	36		1	16×2
21		35	7×2	15	10×2	42		65 <sup>1</sup>	16×2
72 <sup>1</sup>		36	7×2	70 <sup>1</sup>	10×2	43		89	24×3

## For heavy materials

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Sewing pattern	No. of stitches	Length x Width (mm)
6		30	16×3	3	20×3	35		17	24×3
80 <sup>1</sup>		31	16×3	63	20×3	35		83 <sup>1</sup>	24×3
14		35	16×3	79 <sup>1</sup>	20×3	36		18	24×3
81 <sup>1</sup>		36	16×3	2	20×3	42		84 <sup>1</sup>	24×3
16		43	16×3	62	20×3	42		19	24×3
82 <sup>1</sup>		44	16×3	78 <sup>1</sup>	20×3	43		85 <sup>1</sup>	24×3

## For knitted materials and foundation garments

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Sewing pattern	No. of stitches	Length x Width (mm)
22		14	7×2	33 <sup>2</sup>	8×2	15		77 <sup>2</sup>	8×2
75 <sup>1</sup>		15	7×2	32 <sup>2</sup>	8×2	22		7	8×2
9		21	7×2	77 <sup>1</sup>	8×2	23		31 <sup>2</sup>	8×2
74 <sup>1</sup>		22	7×2	7	8×2	28			

<sup>1</sup> Use with the thread ripper device. <sup>2</sup> The sewing start and sewing end are in the middle pattern

## Straight bar tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No. of stitches	Length x Width (mm)
10		21	10×0.3		
11		28	10×0.3	44	9×15
12		28	20×0.3		
23		35	25×0.3	45	9×25
24		42	25×0.3		
25		45	25×0.3		

## Vertical zigzag stitching

No.	Sewing pattern	No. of stitches	Length x Width (mm)
44		46	9×15
45		70	9×25

## Vertical bar tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Length x Width (mm)
26		28	3×10	41	3×16	36	3×16
27		35	3×10	42	3×20	44	3×20
40		32	3×16	43	3×24	68	3×24

## Vertical straight bar tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Length x Width (mm)
28		19	0.3×10	46	0.3×20	27	0.3×20
29		21	0.3×10	47	0.3×25	44	0.3×25
30		28	0.3×10				

## Crescent bar tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Length x Width (mm)
34		35	12×7	36	7×12	57	7×12
35		58	12×7	37	7×12	57	7×12

## Crossed stitching

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Length x Width (mm)
48		70	10×10	50	16×16	52	11.3×11.2
49		93	9.6×9.6	51	30×26	53	11.3×11.2

## Crossed tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)
50		84	16×16
51		105	30×26

## L-pattern tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)
52		78	15.3×15.2
55		78	15.3×15.2

## Circular stitching

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Length x Width (mm)
56		106	9×9	58	9×9	127	9×9
57		116	9×9	59	10×10	104	10×10

## For eyelet buttonhole

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Length x Width (mm)	No. of stitches	Length x Width (mm)
86		21	6×2	87	6×2	28	6×2
		87	6×2	88	6×2	35	6×2

If you want to sew a sewing pattern other than standard sewing patterns, you can create your original pattern using the PS-300B. Consult with your local Brother sales office for details.

Specifications/

# KE-430FS-0

	Application
<b>3</b>	For medium-weight materials
<b>5</b>	For heavy materials

KE-430FS	03	05
Application	Medium materials	Heavy materials
Stitch formation	Single needle lock stitch	
Max. sewing speed	3,200 sti/min	
Sewing area	Max. 40 x 30mm	
Stitch length	0.05 ~ 12.7 mm	
Feed mechanism	Y - $\theta$ intermittent feed mechanism (pulse-motor driven mechanism)	
Max. No. of stitches	5,000 stitches/pattern	
Work clamp lifter	Pulse motor drive system	
Work clamp height	Max. 17 mm	
Rotary hook	Shuttle hook	
Lubrication type	Minimum lubrication type	
Thread wiper	Standard equipment	
Thread trimmer	Standard equipment	
Data storage method	Flash memory (Any sewing pattern can be added using SD card)	
External data storage method	SD card*1	
No. of cycle programs	30 cycle (50 programs for each cycle)	
No. of stored data	89 sewing patterns 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.*2)	
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 No guarantees of operation can be given for any media.

\*2 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-430FS is 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-430FS is 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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