Specifications/

KE-430FX II-0 ■





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	Application
1	Light materials
3	Medium materials
5	Heavy materials
K	Knitted materials

BE-438FX II





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KE-430FX II	01	03	05	OK	BE-438FX II					
Application	Light materials	Medium materials	Heavy materials	Knitted materials	Button attaching					
Lubrication			Semi-dry							
Max. sewing speed		3,200	sti/min		2,700sti/min					
Sewing area		Max.40×30mm								
Dimensions of buttons that can be Sewn		_								
Stitch length		0.05~	12.7mm		0.05~6.4mm					
Feed mechanism		Y- θ intermittent feed	d mechanism (pulse-mot	or driven mechanism)	-					
No. of stitches	Variable (Refer to "	Program List" for details o	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 systen	1						
Work clamp height / Button clamp height		Max.	17mm		Max. 13mm					
Rotary hook		Shuttle h	ook (double shuttle hook	, optional)	-					
Digital tension			Standard equipment							
Thread wiper			Standard equipment							
Thead trimmer			Standard equipment							
Thread nipper		-01,-03,-0K:Standard e	quipment (-05:Option)		Option					
Data storage method		Flash memory (Any	sewing pattern can be a	dded using SD card)	-					
External data storage method			SD card*2							
No. of cycle programs		30 cyc	le (50 programs for each	cycle)						
No. of stored data		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									
Motor		AC se	ervo motor 550W (Direct	Drive)						
Weight	Mad	chine head: Approx. 57kg,	Operation panel: Approx.	0.4kg Control box: Approx	k. 9kg					
Power supply		Single-phase 10 (For single-phase 100V a	0V/220V, 3-phase 220V/3 and 3-phase 380V/400V,)					
		<u> </u>	· · · · · · · · · · · · · · · · · · ·							

^{*1} Use the optional button clamp L (SA9303101) for diameters of 20 mm or greater

^{*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





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



created the "Brother Green Label", KE-430FX II and BE-438FX II are certified as an environment-conscious sewing machine according to the "Brother



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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KE-430FX II

Electronic direct drive lockstitch bar tacker (Short remaining thread spec.)

BE-438FX II

Electronic direct drive lockstitch button sewer (Short remaining thread spec.)

Stable thread tightening and thread trimmer when sewing from light materials to medium materials and heavy materials. They minimize the disposition of thread ends.

- •Reduction of disposition of threads ends (short remaining thread)
- Sew-capability enhancement
- Overwhelmingly superior productivity with the world's top-class cycle time
- Digital Tension and Quick Change Device as standard equipment
- •Clean sewing with semi-dry type



Quality & Speed

Quality & Speed

Stable thread tightening and thread trimmer when sewing from light materials to medium materials and heavy materials. They minimize the disposition of thread ends.

Reduction of Disposition of Thread Ends and Enhanced Sewing Capability can Improve the Quality

Reduction of Disposition of Thread Ends (Short Remaining Thread) Renewed thread trimmer cuts the thread, realizing short remaining threads. The disposition of thread ends after sewing can be reduced. Also, the thread nipper, equipped as standard*, minimizes thread cast off at sewing start and bird's nest. *-5 spec.(heavy materials) is not included. *Conventional KE-430FX II

The brand new thread take-up stroke provides stable thread tightening. So



Overwhelmingly Superior Productivity with The World's Top-class Cycle Time

Enhanced Sew-capability for Medium Materials

that medium material specification covers heavy material usage.

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

*2,700sti/min for BE-438FX II

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.



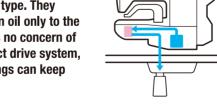
4 User-friendly Operation Panel

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.



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. The direct drive system, having no belt shavings can keep products clean.



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.

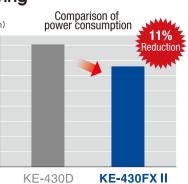


7 Easy Maintenance

The KE-430FX II 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. It exercises strong sewing with less energy.



(2,700sti/min, 3 sec. cycle, AC200V)

Sewing Patterns List (KE-430FX II)

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 (-03)

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	7×2	5	%\\\\\ \\	29	10×2	64 ^{※1}	\$ ****** \$	30	16×2
68 ^{**1}	**** ********************************	22	7×2	67 ^{**1}	****** ******************************	30	10×2	4	\$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	31	16×2
20	M irith n	28	7×2	13	PANANAN I	35	10×2	66 ^{**1}	\$ ****** \$	32	16×2
71 ^{※1}	N iviti n	29	7×2	69 ^{**1}	******* *****************************	36	10×2	1	\$ ********** \$	42	16×2
21	M illiani n	35	7×2	15		42	10×2	65 ^{**1}	\$ ********* \$	43	16×2
72 *1	M ilitaria .	36	7×2	70 ^{*1}	Più	43	10×2	89		90	24×3

For heavy materials (-05)

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	1444444	30	16×3	3		35	20×3	17	1 ////////////////////////////////////	42	24×3
80 ^{**1}	1444444	31	16×3	63	# \\\\\\	35	20×3	83 ^{**1}	1 ////////////////////////////////////	43	24×3
14	1 ///////// 1	35	16×3	79 ^{**1}		36	20×3	18	1 11111111111111 11	56	24×3
81 ^{**1}	1 ///////// 1	36	16×3	2		42	20×3	84 ^{**1}	1 ////////////////////////////////////	57	24×3
16	N WWWWW I	43	16×3	62	₩ \\\\\\\\\\\ \	42	20×3	19	1 444444444 4	64	24×3
82 ^{**1}	N WWWW P	44	16×3	78 ^{**1}		43	20×3	85 ^{**1}	9 ************************************	65	24×3

For knitted materials (-0K) and light materials (-01)

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	7×2	33 ^{**2}		15	8×2	31 ^{**2}		28	8×2
75 ^{**1}	!	15	7×2	32 ^{**2}		22	8×2	73		29	8×2
9	%	21	7×2	77 ^{%1}		23	8×2	76 ^{*1} _{*2}		29	8×2
74 ^{**1}		22	7×2	7	•\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	28	8×2				

*1 Use with the thread ninner device *2 The sewing start and sewing end are in the middle nattern

Straight bar tacking

Otrai	giit bar tacking		
No.	Sewing pattern	No. of stitches	Length x Width (mm)
10		21	10×0.3
11		28	10×0.3
12		28	20×0.3
23		35	25×0.3
24		42	25×0.3
25		45	25×0.3

Vertical zigzag stitching

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

(KE-430FX II)

Vertical bar tacking

Vertical straight bar tacking

		tuoni	9					vertical straight 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)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
26	MANAM	28	3×10	41	Water of the Market	36	3×16	28		19	0.3×10	46		27	0.3×20
27	MANNAM	35	3×10	42	WAAAAAAAW	44	3×20	29		21	0.3×10				
40	W YYSYYS W	32	3×16	43		68	3×24	30		28	0.3×10	47		44	0.3×25

Crescent bar tacking

 	- ooont but 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	12×7	36	MWWWWWW	57	7×12	38	MHHHHHH	53	7×10	
35		58	12×7	37	MANAMANANA	57	7×12	39	WHITHHAM I	53	7×10	

Crossed stitching

Crossed tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
48		70	10×10	50		84	16×16
49		93	9.6×9.6	51		105	30×26

(KE-430FX II)

L-pattern tacking

No.	Sewing pattern	No. of stitches	Length x Width (mm)	No.	Sewing pattern	No. of stitches	Length x Width (mm)
52	*************************************	60	11.3×11.2	54		78	15.3×15.2
53		60	11.3×11.2	55	WWWWWW	78	15.3×15.2

Circular stitching

١	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)
į	56		106	9×9	58		127	9×9	60		114	10×10
į	57		116	9×9	59		104	10×10	61		124	10×10

For eyelet buttonhole

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)
86		21	6×2	87		28	6×2	88		35	6×2

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

Peripheral Equipment and Option

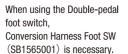
•Sewing data programming software PS-300B

With the KE-430FX II, BE-438FX II sewing can be done using sewing patterns other than preset ones. PS-300B is software for creating sewing patterns on a personal computer.



•Double-pedal foot switch (SA6038101)

The right and left pedals are provided for separated operation functions. This allows even more precise positioning of materials.





Sewing Patterns List (BE-438FX II)

The sewing patterns shown below have been preset into the sewing machine. Any sewing pattern can be selected as long as the needle will drop into the holes of the buttons.

When sewing patterns that do not have crossover stitches, the thread is trimmed after sewing of one side is completed, and then the other side is sewn.

	No. of	Sewing	No. of	No. of crossover	No. of	Sewing size
No.	button holes	pattern	threads	stitches	stitches	$X \times Y (mm)$
1 *1			6	_	12	
54*1			6	_	12	
2			8	_	14	
55 ^{**1}			8		14	3.4×0
3			10	_	16	
5 ^{**2}	2		12		18	
6 ^{**2}			16	_	22	
56 ^{**1}			20	_	26	
7*3			6	_	11 12	0×3.4
23**3			10	_	16	
8 ^{**3}			12	_	18	
9*3			5-5-5	_	21	
24 ^{**3}			7-7-7	_	27	2.6×2.4
25 ^{*3}	3		5-5-5	_	21	
26 ^{*3}			7-7-7	_	27	
57 ^{*1}			6-6	1	18	
10			6-6	1	19	
58 ^{*1}			8-8	1	22	
11			8-8	1	23	
12			8-8	3	25	
13			10-10	1	27	
27			12-12	1	31	
14*4			6-6	0	24	
36 ^{**5}			6-6	0	24	
28 ^{**4}			8-8	0	28	
37 ^{**5}			8-8	0	28	
15 ^{**4}			10-10	0	32	
38 ^{*5}			10-10	0	32	
29 ^{**4}			12-12	0	36	
39 ^{*5}			12-12	0	36	
59 ^{*1}	4	X	6-5	1	17	
16			6-5	1	18	3.4×3.4
60 ^{**1}			8-7	1	21	
17			8-7	1	22	
30			10-9	1	26	
61 ^{**1}			6-6	1	18	
18			6-6	1	19	
62 ^{**1}			8-8	1	22	
19			8-8	1	23	
63 ^{**1}			10-10	1	26	
31			10-10	1	27	
45			12-12	1	31	
20 ^{**4}		X	6-6	0	24	
40 ^{**5}			6-6	0	24	
32 ^{**4}			8-8	0	28	
41 ^{※5}			8-8	0	28	
33 ^{**4}			10-10	0	32	
42 ^{**5}			10-10	0	32	

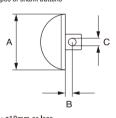
No.	No. of button holes	Sewing pattern	No. of threads	No. of crossover stitches	No. of stitches	Sewing size X × Y (mm)	
64 ^{**1}	4		6-6	1	18	3.4×3.4	
21 ^{**3}			6-6	1	19		
34 ^{※3}			10-10	1	27	2.4×3.4	
22 ^{*3} _{*4}		(II)	6-6	0	24		
43 ^{*3} _{*5}			6-6	0	24		
35 ^{*3} ₄			10-10	0	32		
44 ^{*3} _{*5}			10-10	0	32		
46		X	6-7	1	19		
47			8-9	1	23	0.420.4	
48			10-11	1	27	3.4×3.4	
49			12-13	1	31		

- *1 Use for buttons with small holes
- $^{\star}2$ Check that the diameter or the holes in the buttons is 2mm or greater before using the programs.
- *3 Do not use the button lifter spring.
- *4 When sewing of one side is completed, the button clamp rises and the thread is trimmed. To finish sewing, press the foot switch until sewing of the other side starts, or press the foot switch again after sewing of the other side is completed.
- *5 When sewing of one side is completed, the thread will be trimmed without the button clamp rising, and then the other side will be sewn.

Options

•Shank device (SB1563001)





- A: ø18mm or less B: 1.5mm or more
- C : ø1.5mm or mo

Shank button

No.	Sewing pattern	No. of threads	No. of stitches	Length x Width (mm)	
50		6	12		
51		8	14	3.4×0	
52		10	16	3.4 \ 0	
53	J	12	18		

When sewing this program, use a sewing speed of 1,600 sti/min or less.