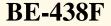
Specifications

KE-430F-0

3 Medium materials 5 Heavy materials

Knitted materials

F Foundation garments









	KE-430F-3	KE-430F-5	KE-430F-K	KE-430F-F	BE-438F							
Application	Medium materials	Heavy materials	Knitted materials	Foundation	Button attaching							
Stitch formation		;	Single needle lock stitc	h								
Max. sewing speed		3,200s	sti/min		2,700sti/min							
Sewing area(X-Y)		Max. 40 x 30mm Max. 6.4 x 6.4mr										
Dimensions of buttons that can be sewn		-	_		Outer diameter of button 8 - 30mm*1							
Feed mechanism		Y— θ intermittent feed	d mechanism(pulse-mo	tor driven mechanism)								
Stitch length		0.05~1	2.7mm		0.05~6.4mm							
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			5,000stitches/pattern									
Work clamp lifter		F	Pulse motor drive syste	m								
Work clamp height		17mm	Mov		40 M							
Button clamp height		1711111	i iviax.		13mm Max.							
Rotary hook		Shuttle hook(double s	shuttle hook, optional)		Shuttle hook							
Digital tension			Standard equipment									
Thread wiper			Standard equipment									
Thread trimmer			Standard equipment									
Thread nipper		-3,	-K,-F:Standard equipm	nent								
Data storage method		Flash memory (Any s	sewing pattern can be a	added using SD card)								
External data storage method			SD card *2									
No. of cycle programs		30 cycl	le(50 programs for eac	h cycle)								
No. of stored data		89 sewing pattern	s are set already		64 sewing pattern are set already							
No. of stored data	(Up to 512 pattern	(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 se	rvo motor 550W(Direct	Drive)								
Weight		Machine head:App	prox.58kg, Operation p	anel: Approx 0.4kg								
vvoigni			Control box:Approx.9kg	g								
Power supply	S	ingle phase100-120V,	200-240V 3-phase200	-240V,380-415V, 350\	/A							

 $^{*}1$ Use the optional button clamp B(S03634-101) for diameters of 20 mm or greater. $^{*}2$ 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

BAS-311G/326G 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.

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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+852-3589-9040





Electronic direct drive lock stitch bar tacker

BE-438F

Electronic direct drive lockstitch button sewer

Stable thread tightening and thread trimmer when sewing from foundation to denim. High quality sewing will be realized at various materials. KE-430F gains high productivity as it's the world's fastest cycle time.

- Beautiful sewing and easy to adjust sewing functions
- Stable sewing quality with Digital tension
- Extremely low noise and vibration for operator friendly sewing
- Overwhelmingly superior productivity with the world's fastest cycle time













Earth

Working with you for a better environment

www.brotherearth.com

Beautiful sewing and easy to adjust sewing functions

Ideal thread take-up for each, light and heavy materials

In addition to recognized the stable 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 arm shaft is stopped can steady the thread end length. Improved nipper decreases thread castoff and bird nest at the sewing start.

Digital tension as standard equipment

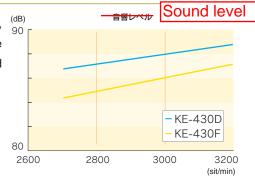
Digital tension is equipped as standard. It keeps tension evenly when operators changing, realizing stable sewing quality. Digital tension is easily adjusted on the operation panel, which is useful for operators who are familiar with screwed-type adjustment. Changing the thread tension can be added on the sewing programs.





Extremely low noise and vibration for operator friendly Sewing

Optimal design for arm bed and rotational mechanism by computer analysis, (dB) 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.

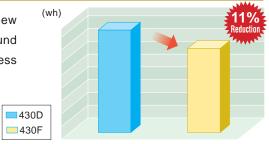


Overwhelmingly superior productivity with the World's fastest cycle time

Since a direct drive system is used, KE-430F boasts the World s fastest sewing speed 3,200 sti/min in half rotation hook sewing machines. Since the work clamp lift amount can be set in two steps, it contributes to productivity enhancement.

High energy saving

Loss of power transmission is remained by direct drive system. A new motor has been developed and reduces the power consumption around 15% compared to the previous model. It exercises strong sewing with less energy.



(3minutes cycle,200V)

Easy maintenance

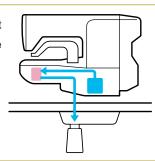
The life cycle of the grease has been extended by (the) twice the rate compared to the previous model.

Applying grease at only two locations makes maintenance easier.



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 rotary hook, there is no concern of oil staining. The direct drive system, having no belt shavings can keep products clean.



User-friendly operation panel

The operation panel is designed to be user-friendly and to improve the ease of operation.



SD card slot

SD card slot is equipped on the operation panel as standard. Sewing patterns can be added and copied easily.



NEW Easy-setting digital tension

Digital tension is easily set by the dedicated key. You can check the setting every time on the dedicated window.

Production counter

It can count how many sewing products are sewed until 9999999.

Lower thread counter

If you use the bobbin thread counter to set the number of articles which can be sewn with the amount of bobbin thread available, you can stop the bobbin thread running out in the middle of sewing pattern.

Sewing start speed

Nine steps sewing start speed can be selected. It can select suitable speed for sewing materials, contributing to preventing the thread cast-off at sewing start.



Program setting

Sewing patterns, X-scale, Y-scale, sewing speed and upper thread tension can be memorized as user programs. Program No.1-89(BE-438F:No.1-64) have been preset into the sewing machine. Up to 512 kinds of patterns can be added and program No.200-999 can be changed all terms.

*Number of memorized patterns differs according to the number of stitches.

Environment-conscious

Brother has established its original ≯Brother Green Label ₹ for the products, in conformity with ISO 14021 and JIS Q14021. The KE-430F and BE-438F is certified as an environment-conscious sewing machine according to the ≯Brother Green Label ₹ standard.

The machines are compliant with the RoHS Directive*1. The use of the restricted substances such as lead, cadmium, hexavalent chromium is absolutely within the regulation values. Brother has been providing all its products in accordance with the RoHS Directive for all market areas (excluding machine tools).

*The RoHS Directive (the restriction of the use of certain hazardous substances in electrical and electronic equipment) came into effect in the EU in July 2006.



The industry1s most efficient energy savings Reduction of noise at the usage environment A significant reduction of lubrication oi

Sewing Patterns list (KE-430D)

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 ordinary materials

No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)
8	\$ \$ \$\$\$ \$\$	21	7×2	5	%**** ********************************	29	10×2	64*1	%\^\\	30	16×2
68 *1	1/ 1/1/1/ *\	22	7×2	67*1	%***** **	30	10×2	4	\$ \^\\\ {	31	16×2
20	1/ ///// 1/	28	7×2	13	\$ \\\\\\\ \$	35	10×2	66 *1	\$ \\\\\ {	32	16×2
71 * ¹	1/ ///// 1	29	7×2	69 *1	********* ***************************	36	10×2	1	\$ \\\\\\\\\\ !	42	16×2
21	N iiiiiiiiii ii	35	7×2	15	7 11111111111 7	42	10×2	65 *1	\$ \\\\\\\\\ \	43	16×2
72 *1	N imini n	36	7×2	70 *1	THINK THE T	43	10×2	89	######################################	90	24×3

For denim

No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)
6	1 /4/4/4/4/4/	30	16×3	3	[\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	35	20×3	17		42	24×3
80 *1	1/4~~~~~~	31	16×3	63	1/1/√√√√√√√ €	35	20×3	83* ¹		43	24×3
14	1/ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	35	16×3	79 *1	1\ \\\\\\ 1	36	20×3	18	N ////////////////////////////////////	56	24×3
81*1	1/ 1//////////////////////////////////	36	16×3	2	1\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	42	20×3	84*1	1 44444444444 4	57	24×3
16	1 ////////////////////////////////////	43	16×3	62	# \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	42	20×3	19	P WWWWWW P	64	24×3
82 *1	14 4444444 4	44	16×3	78 *1	DAAAAAAAAA	43	20×3	85*1	N MMMMMMMM	65	24×3

• For knitted materials and foundation garments

No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)
22		14	7×2	33*2		15	8×2	31*2	}	28	8×2
75 *1	· A	15	7×2	32*2		22	8×2	73 *1		29	8×2
9		21	7×2	77*1*2		23	8×2	76*1*2	1	29	8×2
74 *1	\$\ *\\ \$	22	7×2	7	% \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	28	8×2				

^{*} The sewing start and sewing end are in the middle of the pattern.

Straight bar tacking

5 1	raight bar tacking			• \
No.	Sewing pattern	No. of stitches	Length×Width (mm)	No
10		21	10×0.3	
11		28	10×0.3	44
12		28	20×0.3	
23		35	25×0.3	
24		42	25×0.3	45
25		45	25×0.3	

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

Vertical bar tacking

Vertical straight bar tacking

Vertical bal tacking Vertical s												Milig			
No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)
26		28	3×10	41	W YYYYYY W	36	3×16	28		19	0.3×10	46	•	27	0.3×20
27		35	3×10	42		44	3×20	29		21	0.3×10				
40		32	3×16	43	William Willia	68	3×24	30		28	0.3×10	47		44	0.3×25

Crescent bar tacking

No.	Sewing pattern	No. of	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)
34		35	12×7	36	MANAGEMENT	57	7×12	38	MARKING	53	7×10
35	1	58	12×7	37		57	7×12	39	Million Market Control	53	7×10

Crossed stitching

Crossed tacking

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

L-pattern tacking

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

Circular stitching

		No. of				NI				NI	
No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	No. of stitches	Length×Width (mm)	No.	Sewing pattern	stitches	Length×Width (mm)
56		106	9×9	58		127	9×9	60		114	10×10
57		116	9×9	59		104	10×10	61		124	10×10

For eyelet buttonhole

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

If you want to sew a pattern other than standard patterns, you can create your original pattern using the PS-3000. Consult with your local Brother sales Office for details.

Peripheral equipment

Sewing data programming software PS-300B



With the KE-430F, 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



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

Program list(BE-438F)

The programs shown below have been preset into the sewing machine. Any program is available as long as the needle drops down in the hole of the button.

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

omp.	otou, u			40 10 0		
No.	No. of button holes	Sewing pattern	No. of threads	No. of crossover stitches	No. of stitches	Sewing siz
1	2		6	_	12	
54* ¹			6	_	12	
2			8	_	14	3.4×0
55* ¹			8	_	14	
3			10	_	16	
4			12	_	18	
5*2			16	_	22	
6*2			20	_	26	
56* ¹		(I)	6	_	11	0 7 0 4
7*3			6	_	12	
23 * ³			10	_	16	0×3.4
8*3			12	_	18	
9*3			5-5-5	_	21	
24 * ³	3		7-7-7	_	27	2.6×2.4
25 * ³	3		5-5-5	_	21	2.0 ^ 2.2
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			6-5	1	17	
16	4		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 62* ¹			6-6	1	19	
			8-8	1	22	
19 63* ¹			8-8	1	23	
			10-10	1	26 27	
31 45			12-12	1	31	
20*4			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	
74			10-10	U	52	

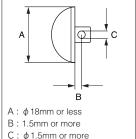
No.	No. of button holes	Sewing pattern	No. of threads	No. of crossover stitches	No. of stitches	Sewing size X × Y (mm)
64*1	4		6-6	1	18	3.4×3.4
21 * ³			6-6	1	19	2.4×3.4
34*3			10-10	1	27	
22*3*4			6-6	0	24	
43*3*5			6-6	0	24	
35*3*4			10-10	0	32	
44*3*5			10-10	0	32	
46			6-7	1	19	3.4×3.4
47			8-9	1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

- *1 Check that the button hole diameter is 2 mm or greater before using the
- *2 Do not use the button lifter spring.
- *3 When sewing of one side is completed, the button clamp rises and the thread is wipped. 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
- *4 When sewing of one side is completed, the thread will be wipped without the button clamp rising, and then the other side will be sewn.

Options

Shank device





Types of shank buttons

Shank button

No.	Sewing pattern	No. of threads	No. of stitches	Sewing size X • Y (mm)
50		6	12	3.4×0
51		8	14	
52		10	16	
53		12	18	

Compatible control program versions are Ver. 6.0.00 and later. If using an earlier version than this, update the version. When sewing this program, use a sewing speed of 1600 rpm or less.