

# DEMATRON



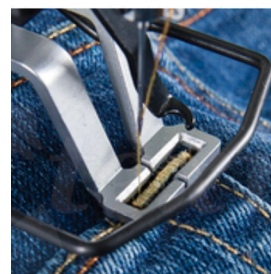
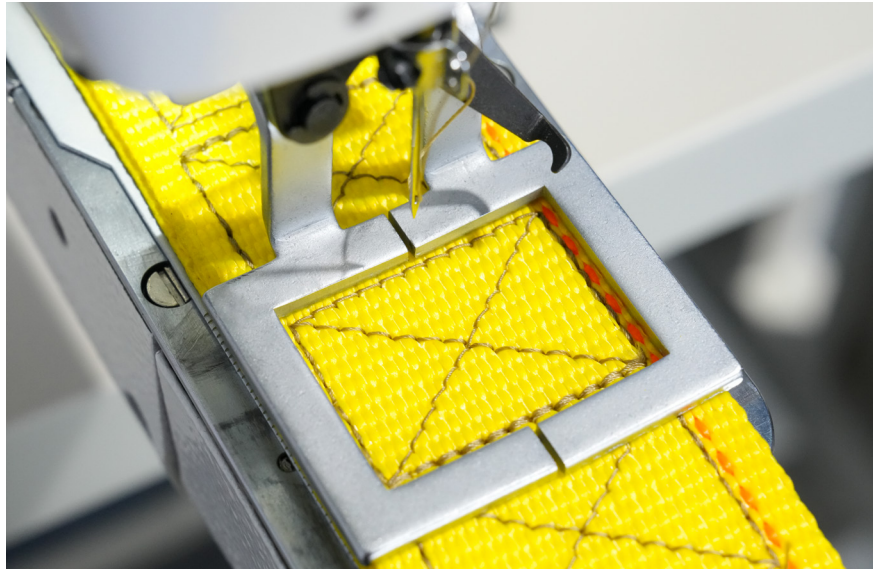
The Dematron DM-430 is the ultimate bar-tacker. Premium quality sewing machine designed for industrial use in a variety of applications

## Sewing Made Easy

The Dematron DM-430 is the ultimate bar tacker. It is equipped with direct-drive motor, THK rail system, Japanese hook, large capacity bobbin, bobbin winder, 89 built in programs for bar-tacking, line-tacking and multiple size box x patterns. Ideal for sewing webbing, velcro, vinyls, denim, knits and other composite materials with ability to sew and trim up to T-138 thread. Includes 7/8" bar tack clamp and a variety of standard clamps as an option. It is the fastest electronic bar tacker on the market with a max speed of 3,200 RPM.

Easy to operate and designed with functionality at it's core. The DM-430S is networkable, USB capable and includes external software. Additionally, it is self-lubricating and features improved automatic thread cutter to effectively prevent bird's nest, oil-free needle bar, and direct-drive motor reduces power consumption by 35%.

Flexible financing options available. Additionally, Dematron offers a 2-Year Warranty and US based support.



### Sew Area

40 mm x 30 mm  
(1.57"x 1.18")

### Max Sewing Speed

3,200 RPM

### Needles

1

### Motor

Direct-Drive

### Display

Touch Panel with USB

### Feeding Method

Intermittent Feeding

### Stitch Length

0.05 -12.7 mm

### Work Clamp Lifter

Pulse-Motor Driven  
Mechanism

### Input

Included External Soft-  
ware

### Pattern Format

.sew

### Presser Foot Stroke

Max 17 mm

### Hook

Heavy Duty  
Shuttle Hook

### Included Programs

89

### Tooling:

Includes 7/8" Horizontal Bar Tack Clamp

Optional:

1/2" Box "X" Clamp  
3/4" Box "X" Clamp

1" Vertical Bar Tack Clamp  
40 x 30 mm Full Area

# Equipment Requirements



## What To Expect

Unit ships assembled and sew ready on a standard pallet (48" x 40" x 60") enclosed in heavy duty box for equipment's safety. Casters to be installed upon arrival.

DEMATRON DM-430 INCLUDES 2 YEAR MANUFACTURER WARRANTY ON NON-CONSUMABLE PARTS AND ELECTRONICS.

## FOOTPRINT

### Length

1219 mm (48")

### Width

737 mm (29")

### Height

1219 mm (48")

## ELECTRICAL

### Power Supply

110V

## SHIPPING DETAILS

### Pack Method

Enclosed Pallet

### Class

150

### NMFC

129750.02

### Net/Gross Wt.

60 kg/80 kg  
(122 lb/177 lb)

## 5. Use method of touch screen

### 5.1 List of sewing patterns (430)

The sewing patterns shown below have been set in advance and can be used according to specifications. (As long as the pattern is within the working range of the presser foot and the fabric feed plate, any sewing pattern can be used.)

Presser feet and fabric feed plates that meet the requirements of various sewing patterns shall be used. The sewing size shall be of the length when the scale rate is 100%.

Applicable to usually heavy fabrics (-03)									
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
1		42	16	2	65		43	16	2
4		31	16	2	66		32	16	2
5		29	10	2	67		30	10	2
8		21	7	2	68		22	7	2
13		35	10	2	69		36	10	2
15		42	10	2	70		43	10	2
20		28	7	2	71		29	7	2
21		35	7	2	72		36	7	2
64		30	16	2	89		90	24	3
Applicable to heavy fabrics (-05)									
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
2		42	20	3	18		56	24	3
3		35	20	3	19		64	24	3
6		30	16	3	62		42	20	3
14		35	16	3	63		35	20	3
16		43	16	3	78		43	20	3
17		42	24	3	79		36	20	3
Applicable to heavy fabrics (-05)									



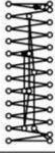




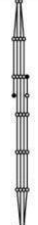


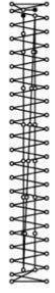
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
80		31	16	3	83		43	24	3
81		36	16	3	84		57	24	3
82		44	16	3	85		65	24	3

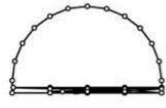
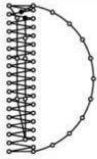
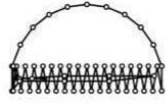



Applicable to knit fabrics (-OK) and women's underwear (-OF)

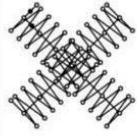
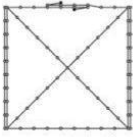
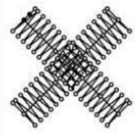
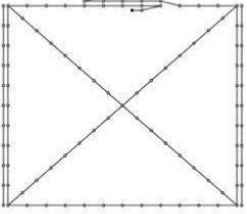
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
7		28	8	2	73		29	8	2
9		21	7	2	74		22	7	2
22		14	7	2	75		15	7	2
31*		28	8	2	76*		29	8	2
32*		22	8	2	77*		23	8	2
33*		15	8	2					

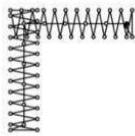

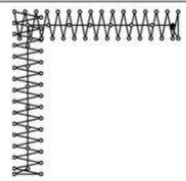
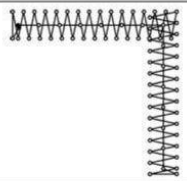

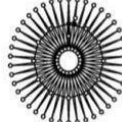


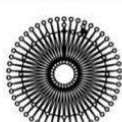
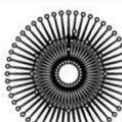
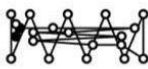

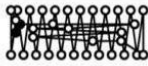
\* Positions of starting stitch and ending stitch in the middle of the pattern

Straight thread knot					Vertical straight thread knot				
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
10		21	10	0.3	44		46	9	15
11		28	10	0.3					
12		28	20	0.3	45		70	9	25
23		35	25	0.3					
24		42	25	0.3					
25		45	25	0.3					

Vertical knot						Vertical straight knot				
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)		
			Length	Width				Length	Width	
26		28	3	10	28		19	0.3	10	
27		35	3	10	29		21	0.3	10	
40		32	3	16	30		28	0.3	10	
41		36	3	16	46		27	0.3	20	
42		44	3	20	47		44	0.3	25	
43		68	3	24						

Crescent knot									
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
34		35	12	7	37		57	7	12
35		58	12	7	38		53	7	10
36		57	7	12	39		53	7	10

X-knot					Cross knot				
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
48		70	10	10	50		84	16	16
49		93	9.6	9.6	51		105	30	26

L-knot									
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
52		60	11.3	11.2	53		60	11.3	11.2
54		78	15.3	15.2	55		78	15.3	15.2
Chrysanthemum-Shaped stitch									
Number	Pattern	Number of stitches	Size (mm)		Number	Pattern	Number of stitches	Size (mm)	
			Length	Width				Length	Width
56		106	9	9	59		104	10	10
57		116	9	9	60		114	10	10
58		127	9	9	61		124	10	10
Round buttonhole									
Number	Pattern	Number of stitches	Size (mm)						
			Length	Width					
86		21	6	2					
87		28	6	2					
88		35	6	2					

If you want to sew patterns other than standard patterns, you can use Dematron software to create original patterns. Please consult local sales offices for details.

**Notes when creating additional sewing patterns**

In case of repeated sewing (short cycle operation) and the number of stitches (less than 15 stitches) is short, the upper shaft motor may be overheated [E150].





# DEMATRON

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