



# EM 110 CS

Diagonal pin point handstitch machine

INSTRUCTION / OPERATING MANUAL  
PARTS MANUAL

## **1. INTRODUCTION**

hand stitch sewing machines is a kind of industrial sewing machines with single needle, single hook needle, double-thread in the positive side and horizontal chain stitch in the negative side. It is applicable to sew medium-thick fabric, such as cotton, wool, chemical fiber, etc, and it is the ideal products for advanced suit, trousers, overcoat and dress.

The machine adopts link-type thread take-up, crochet hook thread catching, linear reciprocating looper pushing and spiral bevel gear driving, thus guaranteeing the machine working steadily and operating easily with low noise and long lifespan.

## **2. MAIN TECHNICAL PARAMETERS**

1. max sewing speed: 1000 stitches/min
2. max needle gauge: 8mm
3. stitch length: 6mm
4. presser bar lifting height: 6mm (by knee: 10mm)
5. max permitting thickness: 5mm
6. thread specification: 20S-60S x 3 polyester fiber
7. needle no.: DP x 5 18#-21#
8. crochet hook no.: 151S(CP x 12) 18# -23#
9. needle bar right-side work space: 270 x 135mm (L\*H)
10. motor power: 380V/370W four grade (220V/250W four grade)

## **3. THE ADJUSTMENT OF THE MACHINE**

### **1. The adjustment of hooking looper**

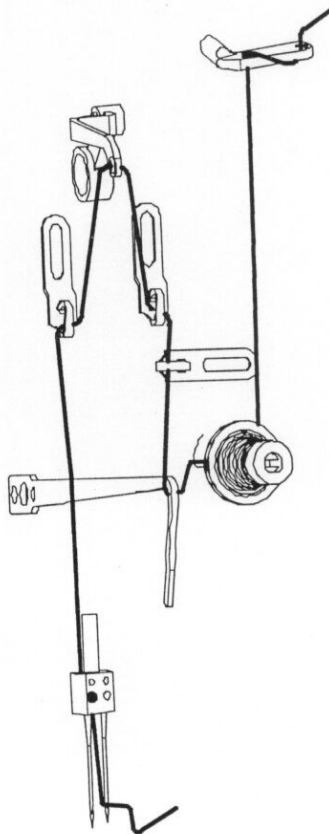
When the needle moves downward the lowest position and goes up 1.5mm, the hooking looper point should just reach the center line of the needle, which the hooking looper point is higher than the needle hole 2mm and the intervals between the looper point plane and jag bottom of the needle is 0.05-0.1mm, the regulating method is to unclamp and regulate the screws of hook cam and hook rack.

## 2. The adjustment of feeding looper

It moves the feeding looper rack to the left limit by rotating upper wheel, then loosens the feeding looper to regulate the screws and adjust the right-and - left position, at last it loosens the feeding looper to regulate the screws to adjust its around position.

## 3. The synchronous adjustment of the feeding & hooking looper

Pl unclamp two fastening screws of the feeding cam and rotate the upper wheel until the hooking looper point reaches the centerline of the needle, then rotate the feeding looper cam along the lower shaft until the feeding looper point moves to the centerline of the straight needle to fasten the two rightening screws of feeding looper cam. It is Vital for the machine to assort the feeding looper with hook looper cam. It is vital for the machine to assort the feeding looper with hook looper carefully and iteratively.



## 4. SPARE PARTS

Figure			Remarks	Figure			Remarks
No.1	Needle bar	1pc		No.24	Ball	2pcs	
No.2	Needle clamp	1pc		No.25	Cover	1pc	
No.3	Screw	2pcs	1/8 x 44	No.26	Screw	1pc	9/64 x 40
No.4	Needle	1pc	DP5110 x 18	No.27	Post	1pcs	
No.5	Hook needle	1pc	125 x 20	No.28	Screw	1pc	9/64 x 40
No.6	Presser foot	1pc		No.29	Cover	1pc	
No.7	Needle plate	1pc		No.30	Small handle	1pc	
No.8	Walking presser	1pc		No.31	Cover	1pc	
No.9	Fastening screw	2pcs	M5 x 5	No.32	Shaft	1pc	
No.10	Shaft	1pc		No.33	Screw	1pc	M3 x 6
No.11	Cover	1pc		No.34	Small support	1pc	
No.12	Screw	1pc	M6	No.35	Small needle hook	1pcs	
No.13	Bar	1pc		No.36	Support	1pc	
No.14	Screw	4pcs	9/64 x 4	No.37	Big hook needle	1pc	
No.15	Ball	1pc		No.38	Big support	1pcs	
No.16	Handle	1pc		No.39	Screw	1pc	M4 x 4
No.17	Shaft	1pc		No.40	Big handle	1pc	
No.18	Board	1pc		No.41	Big shaft	1pc	
No.19	Screw	4pcs	M6 x 25	No.42	Ball	1pc	
No.20	Pedal	1pc	&8 x 20 x 1.5	No.43	Cotter	1pc	
No.21	Screw	1pc	M8 x 1.25	No.44	Cam wheel	1pc	
No.22	Head	4pcs		No.45	Fastening screw	1pc	M6 x 6
No.23	Screw	13pc	M4 x 8	No.46	Cover	1pcs	

