

ONE NEEDLE LOCKSTITCH MACHINE

DL7200C
-
B
M
1
A
-
16
機種別 Model

DL720 直驅單定針平縫車
Direct Drive
Needle Positioning
Lockstitch Machine

DL720G 單剪線高速平縫車
Single Thread Trimming
High-speed Lockstitch
Sewing Machine

DL7210 直驅單針自動切線平縫車
Single Needle Direct
Drive Lockstitch
Machine With Thread
Trimmer

DL7200C 單步進電腦平縫車
Computerized
Lockstitch Machine
with Single Stepping
Motor

DL7200D 雙步進電腦平縫車
Computerized
Lockstitch Machine
with Double Stepping
Motor

DL7500 雙步進電腦觸控平縫車
DL7500S Computerized
Lockstitch Machine
with Double Stepping
Motor and Touch
Panel

**特性
Features**

R 右切刀
Vertical Edge
Trimmer

B 旋轉式切線系統
Rotary Thread
Trimming

N 針送布
Needle Feed

RN 右切刀針送布
Edge Cutter &
Needle Feed

**車縫布料
Sewing Material**

L 薄布料
Light

M 中厚布料
Medium

H 厚布料
Heavy

HM 中厚至厚布料
Medium & Heavy

X 牛仔料
Jeans

旋梭 Hook

1 高速縫梭頭
High Speed Hook

2 大旋梭
Large Hook

送布牙 Feed Dog

- 四排牙
4 Rows of Teeth



A 三排牙
3 Rows of Teeth


功能選配 Function Option

功能碼 Function	自動切線 Auto Trimming	快速倒縫 Reverse Feeding	電子夾線 Thread Gripper	自動抬壓腳 Auto Lifter	防鳥巢 Bird Nest Prevention	撥線桿 Wiper
1	V	-	-	-	-	-
10	V	V	-	-	-	-
11	V	V	-	-	-	V
12	V	V	-	V	-	-
13	V	V	-	V	-	V
15	V	V	V	-	-	-
16	V	V	V	V	-	-
17	V	V	V	V	V	-

DL720 SERIES FEATURES

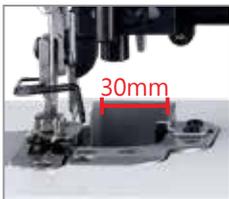


DL720 直驅單定針平縫車 Direct Drive Needle Positioning Lockstitch Machine

- 機電一體化的完美整合，內置電控箱及控制台，安裝簡易，使用方便。
- 直驅伺服馬達，反應快速，動作精準，比離合器馬達省電60%。
- 使用方便：配備 LED 照明，內置式繞線器與補針功能。
- Mechatronic integration with built-in control box and control panel. It is easy to install and operate.
- Direct drive servo motor is speedy, accurate, and energy-saving than clutch motor by 60%.
- User friendly: Equipped with LED light, built-in bobbin winder, and stitch compensation function.

DL720	mm	Needle No. DB × 1	布料厚度 Fabric Weight			mm	手動 Hand	膝動 Knee	mm	S.P.M. (Max)
			L	M	H					
M1	15.8	#11~#14				5.5	13	0~4	4000	
H1	18.0	#18~#21						0~5	3500	
M1A	15.8	#11~#14						0~6.5	4000	

DL720 -RM1 直驅單定針帶刀平縫車 Direct Drive Needle Positioning Lockstitch Machine & Edge Cutter



30mm 落料空間：
廢料從落料口自然滑落，每時每刻保持清爽乾淨。

30mm space:
30mm space for giving up the waste, it brings out with a clean working space.



黑金剛鍍層：
刀架導杆均採用 DLC 塗層處理，更耐用更耐磨。

Special black coating:
Cutter's stick is made with DLC coating which helps to increase durability.



簡易定針型可搭配喇叭組，進行布條滾邊車縫（喇叭為三折捲，入布寬度 28mm，出布寬度 8~10mm）

Needle position function models can equip with binders, to perform tape binding. (Binders are with 3 folders; entering width is 28mm, exiting width is 8~10mm for material.)

DL720	mm	mm	Needle No. DB × 1	布料厚度 Fabric Weight			mm	手動 Hand	膝動 Knee	mm	S.P.M. (Max)	mm	KG
				L	M	H							
RM1-32	3.2	15.8	#11~#14				4	10~13 (可調 Adjustable)	0~4	3700	L630 W245 H540	34.5 / 37.5	
RM1-48	4.8												
RM1-64	6.4												

※ 選配桌板: DL700T-T1 ※ Optional Table : DL700T-T1

DL720G FEATURES



DL720G 單剪線高速平縫機 Single Thread Trimming High-speed Lockstitch Sewing Machine

- 機電一體，操作簡單，具有自動剪線、自動上下停針功能。
- 電腦直驅馬達，啟動迅速，亦適用於厚布料車縫。
- 廣泛適用於各種服裝，如西服、襯衫、牛仔褲、大衣等。
- Mechatronic, easy to operate, with the functions of automatic thread trimming and needle positioning.
- The direct-drive servo motor starts quickly and is also suitable for sewing thick fabrics.
- Widely applicable to many kinds of clothing, such as suits, shirts, jeans, coats, etc.

特點

FEATURES

- 1 偏心銷油量大小可控，保證機頭內部潤滑
Precisely control the amount of oil inside the machine head to ensure proper lubrication.
- 2 卡扣式針距調整旋扭，針距穩定
Set the needle gauge with adjustment knob.
- 3 大風量手輪，散熱更好
Big hand wheel with cooling fan design improves heat dissipation.
- 4 弧形扳手，倒縫操作輕鬆
Reverse stitch easily with curved lever.



規格

SPECIFICATIONS

DL720G	mm 	Needle No. DB×1	布料厚度 Fabric Weight			mm 	mm 	mm 	S.P.M. (Max)	自動切線 Auto trimming
			L	M	H					
BM1(A)-1	15.5	#11~#14				手動 Hand	膝動 Knee	0~5 / A : 0~7	4500	V
BH1(A)-1	18	#21				5.5	13	0~5 / A : 0~7	4000	

*A：表示針板、送具為三排齒 A：Needle plate, feed dog have three gears.
無：表示針板、送具為四排齒 None：Needle plate, feed dog have four gears.

DL7210

FEATURES



DL7210

直驅單針自動切線平縫車 Single Needle Direct Drive Lockstitch Machine With Thread Trimmer

本機為直驅單針自動切線平縫車，採用按鍵螢幕，用指尖簡單點選輸入，縫紉功能設定即可輕鬆完成。按鍵操作設定簡單，大量使用簡單易懂的插圖圖標，可進行直覺操作。直驅伺服馬達，比一般機器省電 70% 以上，低噪音，無輻射，環保型。適用於不同物料，由於其先進的降噪音設計，使機器在 4000 轉 / 分的高速運轉下仍可保持可靠性和耐用性，大大提高了生產效率。

This machine is a single needle direct drive lockstitch machine with thread trimmer, using the key screen, simple click to input with fingertips, sewing function setting can be easily completed. Key operation setting is simple, a large number of easy-to-understand illustration icons, can be intuitive operation. Direct drive servo motor, save more than 70% power than ordinary machine, low noise, no radiation, environmental protection. Suitable for different materials due to its advanced noise reduction design. The machine can still maintain reliability and durability under the high speed operation of 4000 rpm, greatly improving the production efficiency.



規格

SPECIFICATIONS

DL7210	Needle No. DB × 1	布料厚度 Fabric Weight			mm		mm	S.P.M. (Max)	mm	KG
		L	M	H	手动 Hand	自动 Auto				
BM1-15	#11~#14		■		5.5	10	0~5	4000	L655 W245 H540	40 / 38
BH1-15	#20~#23			■			0~5	3500		
BM1-16	#11~#14		■				0~5	4000		
BH1-16	#20~#23			■			0~5	3500		

功能 Function	代碼 Function Code	自動切線 Auto trimming	倒縫 Reverse Feeding	電子夾線 Thread Gripper	自動抬壓腳 Auto Lifter
	15	V	V	V	-
	16	V	V	V	V

DL7200C SERIES FEATURES

DL7200C 單步進電腦平縫車 Computerized Lockstitch Machine with Single Stepping Motor



專利斜板自動式抬壓腳、搭載智能主板由核心精準控制針距，精度可達 0.1mm 的誤差。
智能控制作動行程、誤差，達到精準無聲倒縫。

Stepping motor controls stitch length and reverse stitch. It enables precision control over the stitch length to get an accuracy of 0.1mm and gives reverse stitches precisely on the top of the previous ones.



特點

FEATURES

- 【專利】斜板自動式抬壓腳：**
降低電磁鐵負載、耐用度提升。
Patented inclined plane design of auto. presser foot lifter will lead to a significant increase of the electromagnetic service life and enhance its durability.
- 大風量手輪設計，高效率散熱**
Big hand wheel with cooling fan design improves the heat dissipation efficiency.
- 具備智能操控屏幕與USB接口**
Intelligent control panel with USB port
- 出廠預設9種花樣縫，也可彈性設定花樣，滿足多種縫紉需求**
Up to 9 standard sewing patterns for different needs and the sewing patterns can also be customized upon request.



規格

SPECIFICATIONS

DL7200C	mm	Needle No. DB X 1	mm	mm	S.P.M. (Max)	自動切線 Auto trimming	倒縫 Reverse Feeding	電子夾線 Thread Gripper	自動抬壓腳 Auto Lifter	
BM1(A)-15Q	15.5	#11~#14	手動 Hand 5.5	膝動 Knee 13	自動 Auto 10	0~5 / A : 0~7	V	V	V	—
BM1(A)-16Q						0~5 / A : 0~7	V	V	V	V
BH1(A)-15Q	18	#20~#23				0~5 / A : 0~7	V	V	V	—
BH1(A)-16Q						0~5 / A : 0~7	V	V	V	V
BX2(A)-15Q						0~5 / A : 0~7	V	V	V	—
BX2(A)-16Q	18	#20~#23				0~5 / A : 0~7	V	V	V	V

*A：表示針板、送具為三排齒 A：Needle plate, feed dog have three gears.
無：表示針板、送具為四排齒 None：Needle plate, feed dog have four gears.

DL7200C-RM1

單步進帶刀電腦平縫車

Computerized Lockstitch Machine with Single Stepping Motor & Edge Cutter



採用內置式直驅伺服馬達，實現了機器的快速啟動和制動的精確度；大幅度降低了噪音和振動，並降低了能耗，與普通的驅動裝置相比，電量耗減35%以上，適用於縫製各類襯衫、西服或類似服裝，特別是其衣領、前襟等部位，高速縫製時倒順送料針距能保持完全一致，側切刀裝置使縫紉和修刀工序一次完成，工作效率提高。

With built-in direct drive servo motor to achieve the accuracy of the machine's rapid start-up and braking; a significant reduction in noise and vibration, and reduce energy consumption, compared with conventional drive unit, battery depletion of 35% or more, suitable for sewing various shirts, suits or similar garments, especially its collar, breast and other parts, inverted send high-speed sewing material pitch to be completely consistent, side cutter device sewing and knife trimming procedures in one time efficiency.

特點

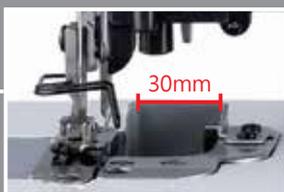
FEATURES

30mm 落料空間：

廢料從落料口自然滑落，每時每刻保持清爽乾淨。

30mm space:

30mm space for giving up the waste, it brings out with a clean working space.



USB 介面：

超能 USB 介面。

USB interface:

Versatile USB interface equipped.



1 倒縫步進電機驅動：

步進電機控制倒縫和針距，精確度達到 0.1mm，針距精準，重針度高，針距可鎖定，不會因為傳統標盤針距長久使用後導致針距忽大忽小。

Reverse sewing driven by stepping motor:

Stepping motor controls reverse sewing and needle movement. Actual precision can be as 0.1 mm. Needle gauge, which can be locked in, is precise with sewing repetition. It would not have the issue of unstable needle gauge using with traditional needle gauge device.

2 新靜界，新智縫：

採用步進電機驅動倒縫，加固，聲音輕，給你安靜舒適的工作環境。而且可實現鎖針，花樣加固縫等傳統結構無法實現的功能。

Quietness and Intelligence:

Manipulating the reverse sewing with stepping motor, it brings a calm environment. Other than traditional structure, it offers function of lockable needle and pattern sewing.

3 黑金剛鍍層：

刀架導杆均採用 DLC 塗層處理，更耐用更耐磨。

Special black coating:

Cutter's stick is made with DLC coating which helps to increase durability.



規格

SPECIFICATIONS

DL7200C			 DB X 1				自動切線 Auto trimming	倒縫 Reverse Feeding	電子夾線 Thread Gripper	自動抬壓腳 Auto Lifter	
RM1-32-12	3.2	15.5	#11~#14	手動	膝動	0~4	3700	V	V	-	V
RM1-48-12	4.8			Hand	Knee						
RM1-64-12	6.4			5.5	13						

※ 選配桌板：DL7000T-T1 ※ Optional Table : DL7000T-T1

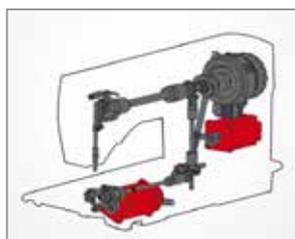
DL7200D SERIES FEATURES



DL7200D 雙步進電腦平縫車
**Computerized Lockstitch Machine
with Double Stepping Motor**

DL7200D 雙步進針送電腦平縫車
**-NM1 Computerized Needle
Feed Lockstitch**

DL7200D 雙步進針送電腦平縫車
**-NH1 Machine with Double
Stepping Motor**



雙步進馬達驅動，實現完美的連貫動作

底部的步進馬達控制雙動刀切線與抬壓腳，右側的步進馬達控制針距與倒縫，以電控技術串聯每一個縫紉機功能，實現完美的連貫動作

Double stepper motors drive for the perfect coherent movements

The bottom stepper motor controls the double knives thread trimmer and presser foot lifter, and the right side stepper motor controls the stitch distance and reverse stitch. The computer control technology integrates every function of the sewing machine, and realize the perfect coherent movements.



起縫微鳥巢，結束短線頭，實現優美的車縫品質

完美的連貫動作，起縫時機針上只需極短線頭，大幅降低底面的鳥巢現象，穩定的雙動刀切線，可達3 mm以下的短線頭，實現優美的車縫品質。

Starting with micro-bird nest, ending with short thread head, for the beautiful sewing quality

Due to the perfect coherent movements, it requires a very short thread head at the needle at the sewing starting, which significantly reduces the bird nest on the bottom side. The double knives thread trimmer is very stable, and it makes the ending with Max. 3 mm thread head, which realize the beautiful sewing quality.

特點

FEATURES

1

步進馬達電子針距控制技術：
實現倒縫與正縫針腳高度重合。

Stepping motor electronic stitch length control:

The stitch height of reverse stitching and normal stitching are aligned.



2

密封油盤設計：

避免油污造成的縫料污染，同時可減小整機運作時的噪音。

Oil tank design:

Sealed oil tank to avoid fabric from grease and to reduce noise when machine operates.



3

低噪音：

優化的機殼設計和主軸馬達結構，機器運轉時噪音低；採用步進馬達控制加固縫，加固時無聲響；採用步進馬達控制抬壓腳，壓腳提升和下降時聲音輕柔；採用步進馬達驅動切線，切線聲音大幅度降低。

Low noise:

With optimized internal design and with stepping motor without bearing, DL7200D-NM1/NH1 is quiet when reverse feeding, presser foot lifting, and trimming.

完整而優良的各項細節 Complete and excellent details



電子膝控抬壓腳
Electronic knee touch
presser foot lifter

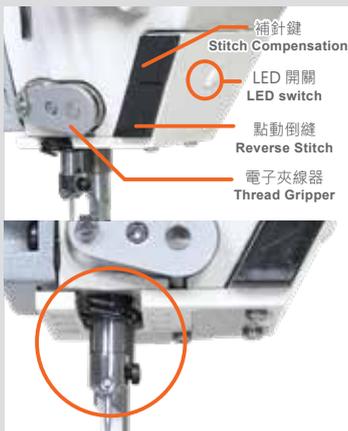


縫製多達 9 種不同線跡
Swing up to 9 different
stitch patterns



USB 充電埠
USB charging port

DL7200D



照明與快速鍵三合一模組
Lighting and hot key
3-in-1 module

DL7200D-NM1/NH1



四個按鍵：
配有四個功能鍵，方便進行倒縫加
固、補針（補 1 針、補 1/2 針、1/4 針）操作。

Four buttons:
Equipped with four functional
buttons, so
that it is convenient for backstitch
and stitch
compensation(1 stitch, 1/2 stitch,
1/4 stitch)

本機採用連桿式針送料結構，
針送料方式使送料特性更加穩
定，縫層之間不易產生滑移。

The machine adopt
connecting rod control
feeding system, the needle
feeding method make the
feeding system more stable,
during multi-sewing the
fabric not easy to moving.



黑金鋼針桿：
採用 DLC 塗層針桿，減少了頭部供
油，顯著減少針桿漏油。

Needle bar made with black gold
metal:
DLC coating helps to decrease
the oil supply and to prevent the
needle bar from oil leakage.

規格

SPECIFICATIONS

DL7200D	mm	Needle No. DB X 1		mm		mm	S.P.M. (Max)
BM1(A)-16Q	10	#11~#14	手動 Hand 5.5	膝動 Knee 13	自動 Auto 9-10	0~5 / A:0~7	4000
BM1(A)-17Q	10	#11~#14				0~5 / A:0~7	4000
BH1(A)-16Q	11.5	#18~#21				0~5 / A:0~7	3500
BH1(A)-17Q	11.5	#18~#21				0~5 / A:0~7	3500
NM1-16	18	#9~#14				0~4.5	3500
NH1-16	21	#18~#21				0~5	3500

*A：表示針板、送具為三排齒 A：Needle plate, feed dog have three gears.
無：表示針板、送具為四排齒 None：Needle plate, feed dog have four gears.

功能 Function	代碼 Function Code	自動切線 Auto trimming	倒縫 Reverse Feeding	電子夾線 Thread Gripper	自動抬壓腳 Auto Lifter	防鳥巢 Bird nest prevention
	16	V	V	V	V	-
	17	V	V	V	V	V

DL7500S SERIES FEATURES



DL7500S 雙步進電腦觸控平縫車 Computerized Lockstitch Machine with Double Stepping Motor and Touch Panel

本機採用一體式智能操作系統，配備 4.3 寸觸摸顯示屏，簡化操作邏輯，參數調整更加便捷。無軸承主軸伺服馬達、花樣米粒縫、包油盤、電子膝控、短線頭等功能，且送布、剪線、抬壓腳為步進電機驅動，穩定低噪音，功能齊全，質量穩定。



This machine adopts an integrated intelligent operating system, equipped with a 4.3-inch touch screen, which simplifies the operation logic and makes parameter adjustment more convenient. Special features includes bearing-less spindle servo motor, pattern stitch, sealed oil tank, electronic knee pad, short thread trimmer.

Feeding, thread trimming and presser foot lifting are driven by stepping motors, which is stable and quiet. Completed functions and stable quality.

特點

FEATURES

1 步進馬達電子針距控制技術： 實現倒縫與正縫針腳高度重合。

Stepping motor electronic stitch length control:
The stitch height of reverse stitching and normal stitching are aligned.

2 步進馬達雙向驅動技術 (專利技術)： 一個馬達完成切線和抬壓腳動作。

Two-way stepping motor technology(patented):
One motor completes thread trimming and presser foot lifting.

3 短線頭： 採用電機驅動的雙動刀剪線機構，可在機針正下方完成剪線，縫紉後的線頭最短可達 3mm，可有效減少人工剪線的工作量。

Short thread head:
The shortest thread head is down to 3mm, which can effectively reduce workload of manual trimming.

4 花樣縫： DL7500S 可以透過設定產生 9 種不同線跡。

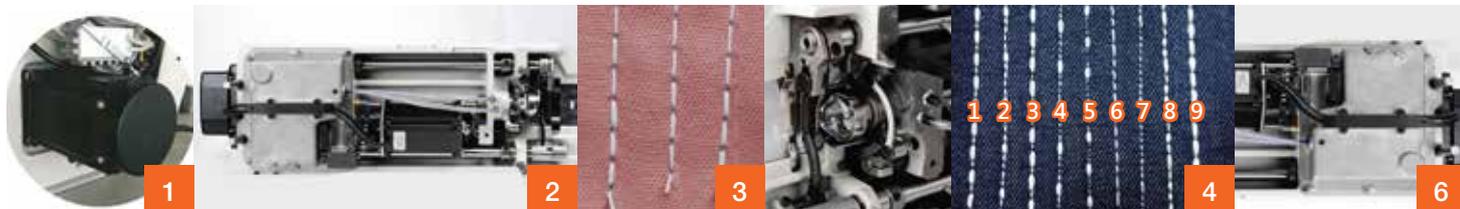
Pattern stitch:
DL7500S stepping motor offers 9 different patterns.

5 低噪音： 優化的機殼設計和主軸馬達結構，機器運轉時噪音低；採用步進馬達控制加固縫，加固時無聲響；採用步進馬達控制抬壓腳，壓腳提升和下降時聲音輕柔；採用步進馬達驅動切線，切線聲音大幅度降低。

Low noise:
With optimized internal design and with stepping motor without bearing, DL7500S is quiet when reverse feeding, presser foot lifting, and trimming.

6 密封油盤設計： 避免油污造成的縫料污染，同時可減小整機運作時的噪音。

Oil tank design:
Sealed oil tank to avoid fabric from grease and to reduce noise when machine operates.



完整而優良的各項細節 Complete and excellent details

全新觸控顯示屏：
4.3 英寸彩色觸摸屏，內容直觀，操作方便



Advanced touch screen:
4.3-inch colored touch screen, intuitive and convenient.

四個按鍵：
配有四個功能鍵，方便進行倒縫加固、補針（補 1 針，補 1/2 針，1/4 針）操作。



Four buttons:
Equipped with four functional buttons, so that it is convenient for backstitch and stitch compensation (1 stitch, 1/2 stitch, 1/4 stitch)



黑金鋼針桿：
採用 DLC 塗層針桿，減少了頭部供油，顯著減少針桿漏油。

Needle bar made with black gold metal:
DLC coating helps to decrease the oil supply and to prevent the needle bar from oil leakage.

規格

SPECIFICATIONS

DL7500S	Needle No.	布料厚度 Fabric Weight			mm			mm	S.P.M. (Max)	mm	KG
		L	M	H	手動 Hand	膝動 Knee	自動 Auto				
BM1-16	DB×1 #9 ~ #16				5.5	11	11	0~5	4500	L620 W280 H550	37.4 / 43.5
BM1-17											
BH1-16	DP×5 #18 ~ #21				5.5	11	11	0~7	4500	L620 W280 H550	37.4 / 43.5
BH1-17											

功能 Function	代碼 Function Code	自動切線 Auto Trimming	倒縫 Reverse Feeding	電子夾線 Thread Gripper	自動抬壓腳 Auto Lifter	防鳥巢 Bird Nest Prevention
	16	V	V	V	V	-
	17	V	V	V	V	V

**DL7500
-RNM1**

**雙步進帶刀針送電腦觸控平縫車
Computerized Needle Feed
Lockstitch Machine with Double
Stepping Motor and Touch Panel
and Edge Cutter**



本機通過針送布防止縫紉料的層移動和過骨的針跡堆積。調節操作簡便、設計精巧、省時省力、使縫製與切除縫料邊一次完成。採用步進馬達控制針腳長度、倒回縫、剪線無聲、可縫製 9 種不同線跡。適用於縫製各種服裝、男女襯衫、童裝、床單、窗簾等。



This machine uses needle feed system to prevent the layer movement of the sewing material and the accumulation of stitches passing through cross seam. The adjustment operation is simple, the design is exquisite, time-saving and labor-saving, and the sewing and cutting of the sewing material can be completed at one time. Stepping Motor-controlled stitch length, reverse sewing, silent thread trimming, and 9 different stitches can be sewn. Suitable for sewing all kinds of clothing, men's and women's shirts, children's garment, bed sheets, curtains, etc.

特點

FEATURES

- 1 無軸承主軸伺服馬達：**
直接使用主軸作為電機軸，無需用連軸器連接，主軸剛性好、力矩輕，電機運轉聲音輕。
Bearingless Spindle Servo Motor:
The main shaft is directly used as the motor shaft, and there is no need to connect with a coupling, the main shaft has good rigidity, light torque, and the motor has a light running sound.
- 2 步進馬達雙向驅動技術 (專利技術)：**
一個馬達完成切線和抬壓腳動作。
Two-way stepping motor technology(patented):
One motor completes thread trimming and presser foot lifting.
- 3 可離合式切刀開關：**
實現切布與非切布縫製功能切換。
Clutchable cutter switch:
Achieve the switching between cutting and non-cutting sewing functions.

- 4 花樣縫：**
DL7500 可以透過設定產生 9 種不同線跡。
Pattern stitch:
DL7500 stepping motor offers 9 different patterns.
- 5 高品質的加固縫線跡：**
步進電機控制針距與倒縫：針距精準、倒縫無噪聲；前、後加固縫功能有效縮短留在縫料上的線頭長度，防止線頭鬆散。
High-quality bartack stitches:
Stepper motor controls stitch length and reverse stitching: precise stitch length and noiseless reverse stitching; the front and back stitching functions effectively shorten the length of the thread left on the sewing material and prevent the thread from loosening.
- 6 電子膝控：**
比傳統機械膝控更加輕柔，減小操作負荷。
Electronic knee control:
Softer than traditional mechanical knee control, reducing operating load.



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全新觸控顯示屏：
4.3 英寸彩色觸摸屏，內容直觀，操作方便。



Advanced touch screen:
4.3-inch colored touch screen,
intuitive and convenient.

多功能補針開關：
可實現改變針距補針功能。



Multi-function stitch compensation switch:
It can realize the function of changing
stitch length to make up the needle.



針送料結構：
本機採用連桿式針送料結構，針送料方式使送料特性更加穩定，縫層之間不易產生滑移。

This machine adopts the connecting rod type needle feeding structure, the needle feeding method makes the feeding characteristics more stable, and it is not easy to slip between the seam layers.

規格

SPECIFICATIONS

DL7500		! Needle No. DB × 1	布料厚度 Fabric Weight									
			L	M	H	手動 Hand	膝動 Knee	自動 Auto				
RNM1-32-16	3.2	#9 ~ #16							0~5	4000	L620 W280 H550	40 / 46
RNM1-48-16	4.8					5.5	11	11				
RNM1-64-16	6.4											

功能 Function	代碼 Function Code	自動切線 Auto Trimming	倒縫 Reverse Feeding	電子夾線 Thread Gripper	自動抬壓腳 Auto Lifter	防鳥巢 Bird Nest Prevention
	16	V	V	V	V	-