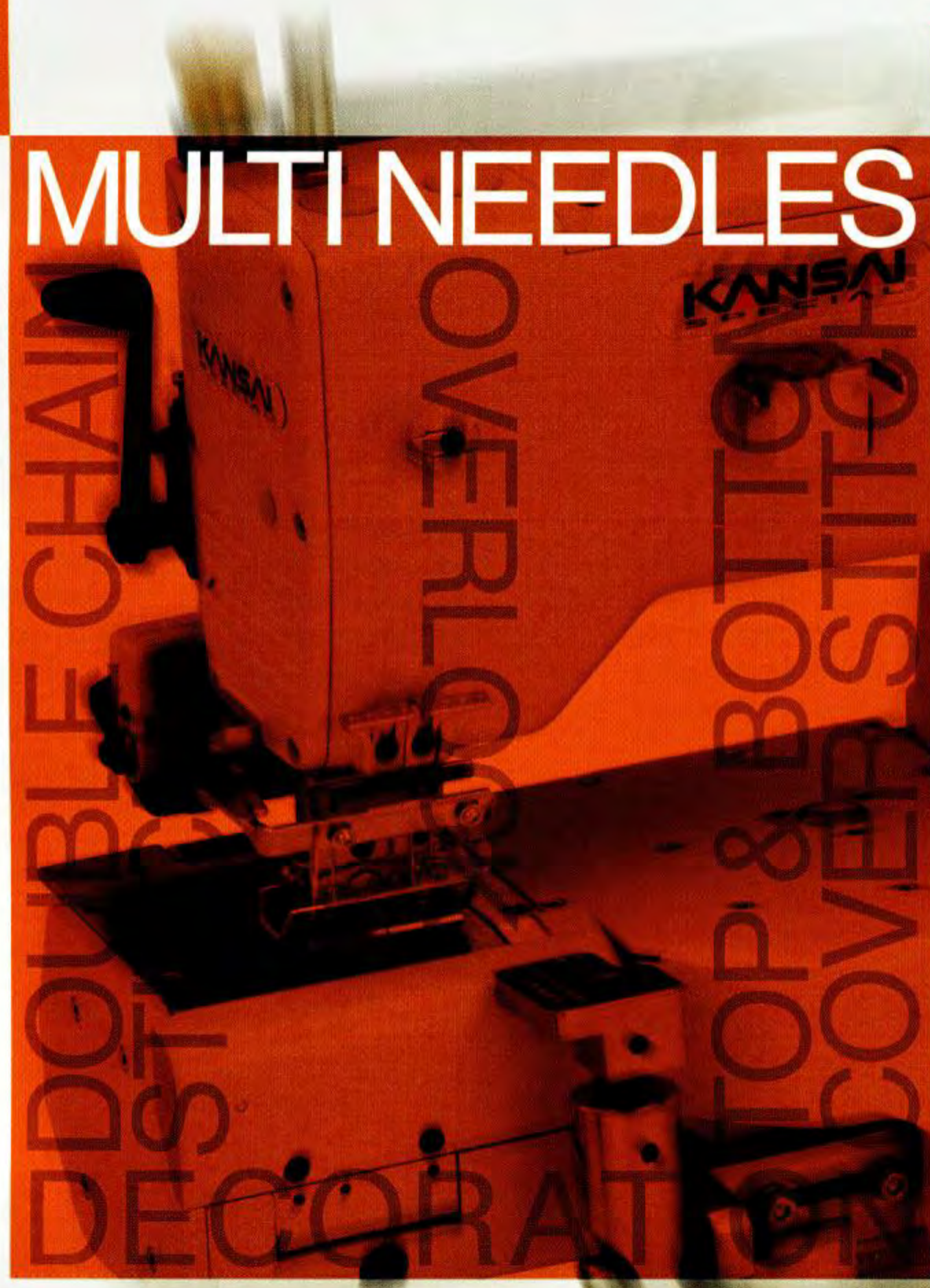
KANSAI SPECIAL®

2 MULTI NEEDLES
多本針二重環縫いミシン

INDUSTRIAL SEWING MACHINES
PRODUCTS GUIDE

DFB/BX SERIES
FX SERIES
DX SERIES
FBX SERIES

MULTI NEEDLES



MORIMOTO MFG. CO., LTD.

1 DOUBLE CHAIN STITCH
2 MULTI NEEDLES
3 TOP&BOTTOM COVER STITCH
4 DECORATION
5 OVERLOCK

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INDUSTRIAL SEWING MACHINES
PRODUCTS GUIDE

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KANSAI SPECIAL

Global Standard
KANSAI SPECIAL

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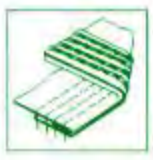
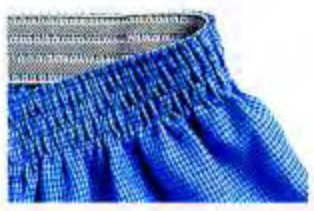
多本針二重環縫いミシン

INDUSTRIAL SEWING MACHINES

DFB・BX SERIES





DFB-1404P

DFB、BX シリーズは、フラットベッド多本針二重環縫いミシンです。ゴム付け（入れ）、前立て縫い、ライン付け、腰帯付けやスモッキング、シャーリングなど下着、スポーツウェアー、婦人服、室内装飾品にいたるまで汎用性に優れたシリーズです。ルーパー縦振り機構の為、2～33本針までゲージの種類も多く針数も製品に合わせて選んで頂けます。

サブクラス ■MR：ひだ取り装置付きミシン ■WB：ウェストバンド用ミシン ■PSF：前立て用ミシン ■PSM：スモッキングミシン ■PS-SM：シャーリング＋ スモッキングミシン ■ET：下糸ゴム糸専用 ■PS-ET：シャーリングミシン（上糸スパン糸、下糸ゴム糸） ■PQ：シャーリングミシン（上糸スパン糸、下糸スパン糸＋ゴム糸） ■PL：ライン付けミシン

オプション ■MD-1：前ゴム送り装置

DFB, BX series are a flatbed, multi needles, double chainstitch machine.
These series are multi-purpose machines for attaching elastic, attaching waistband, sewing the front of shirts, attaching line tapes,smocking and shirring etc., which are ideal for underwear, sportswear, lady's clothes, interior decorated goods(curtains, table-clothes etc.).
There are 2 up to 33 needles available due to vertical movement of the looper and also many kinds of gauges which are selectable according to your needs.

Subclass ■MR：Machine with Ruffling Device ■WB：Machine for Attaching Waistbands ■PSF：Machine for shirt fronting ■PSM：Machine for smocking ■PS-SM：Machine for simultaneous shirring + smocking ■ET：Looper thread elastic model■PS-ET：Machine with Shirring (Needle : Polyester Thread, Looper : Elastic Thread) ■PQ：Machine with Shirring (Needle : Polyester Thread, Looper : Polyester Thread, Elastic Thread: threading on surface of needle plate.) ■PL：Machine for Attaching Line Tapes

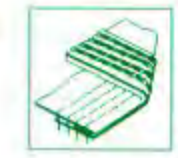
Option ■MD-1：Metering Device

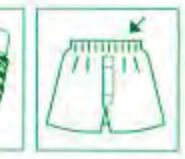
Cama plana multiagujas, doble cadeneta extremadamente versatil, para adaptar elastico, frente de camisa, puntadadecorativa y pliegues, ideal para ropa interior, ropa deportiva, cortinas, manteles, etc. Movimiento del garfio vertical, de 2 a 33 agujas con diferentes medidas para su necesidad.

Subclass ■MR: Aparato Rizar ■WB: Pegar cintura ■PSF: Frente de camisa ■PSM: Aparato decorativo ■PS-SM: Aparato, alforzas,decorativo ■ET: Garfio, Hilo elastico ■PS-ET: Alforzas, hilos poliester, elastico ■PQ: Alforzas, garfio, para elastico, hilos poliester ■PL: Pegar cintas

Opciones ■MD-1: Docificador de elastico

DFB-1404PMD





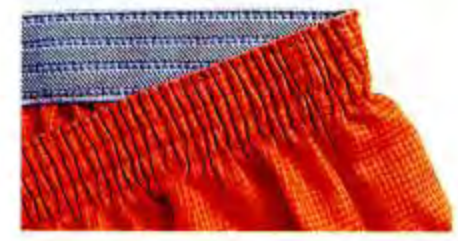
4本針二重環縫いゴム付け用ミシン(前ゴム送り装置付)

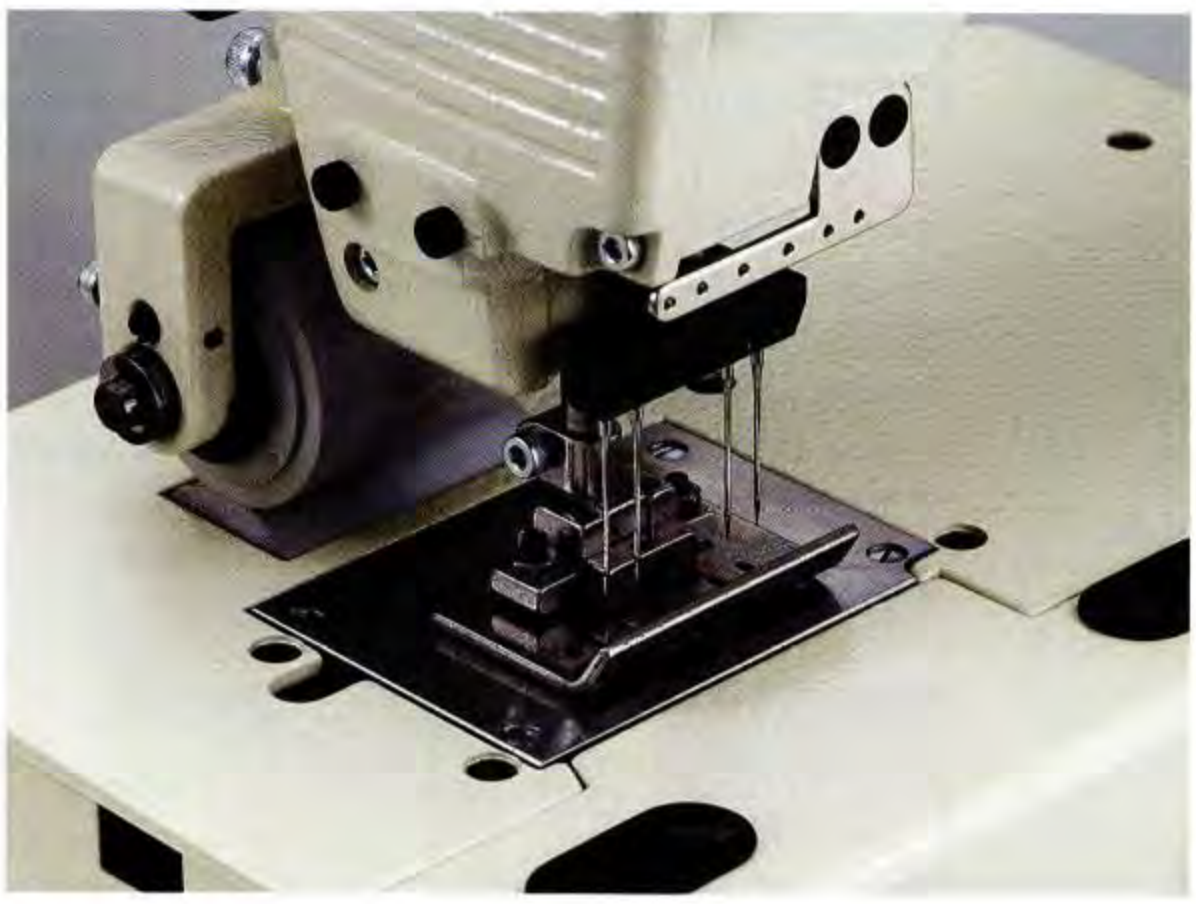
4 needle, flatbed, double chain stitch machine for attaching elastic, the most suitable for attaching elastic to trunks and similar garment.

4 agujas cama plana para pegar elastico.

Base plana com 4agulhas para pregar coz.

4针两重环缝上松紧带用缝纫机（带送松紧带装置）





DFB-1404PSF

4本針前立て用ミシン先引きゴムプーラによりワイシャツの前立てに適しています

4 needle, flatbed multi-functional machine with smooth puller for shirt fronting.

4 agujas, para coser el frente de la camisa, equipada con arrastrador de goma.

Maquina de 2 agulhas, para costurar frente de camisas. Equipada com extrator traseiro de borracha, esta maquina e apropriada para costurar a frente de camisas.

4针门襟用缝纫机（由于有前导式松紧带拉料装置,适合缝衬衫的前身片）

As series DFB, BX sao maquinas de costura de ponto duplo. Essas series sao maquinas de propositos multiplos para prender elasticos,prender cintas, costurar a frente de camisas, prender fitas de linha, e franzido, que sao ideais para roupas de baixo, roupas esportivas,roupas femininas, bens de decoracao de interiores (cortinas, toalhas de mesa, etc.).
Disponiveis de 2 a 33 agulhas devido ao movimento vertical da presilha e tambem disponiveis em muitos tipos de medidas selecionaveis de acordocom suas necessidades.

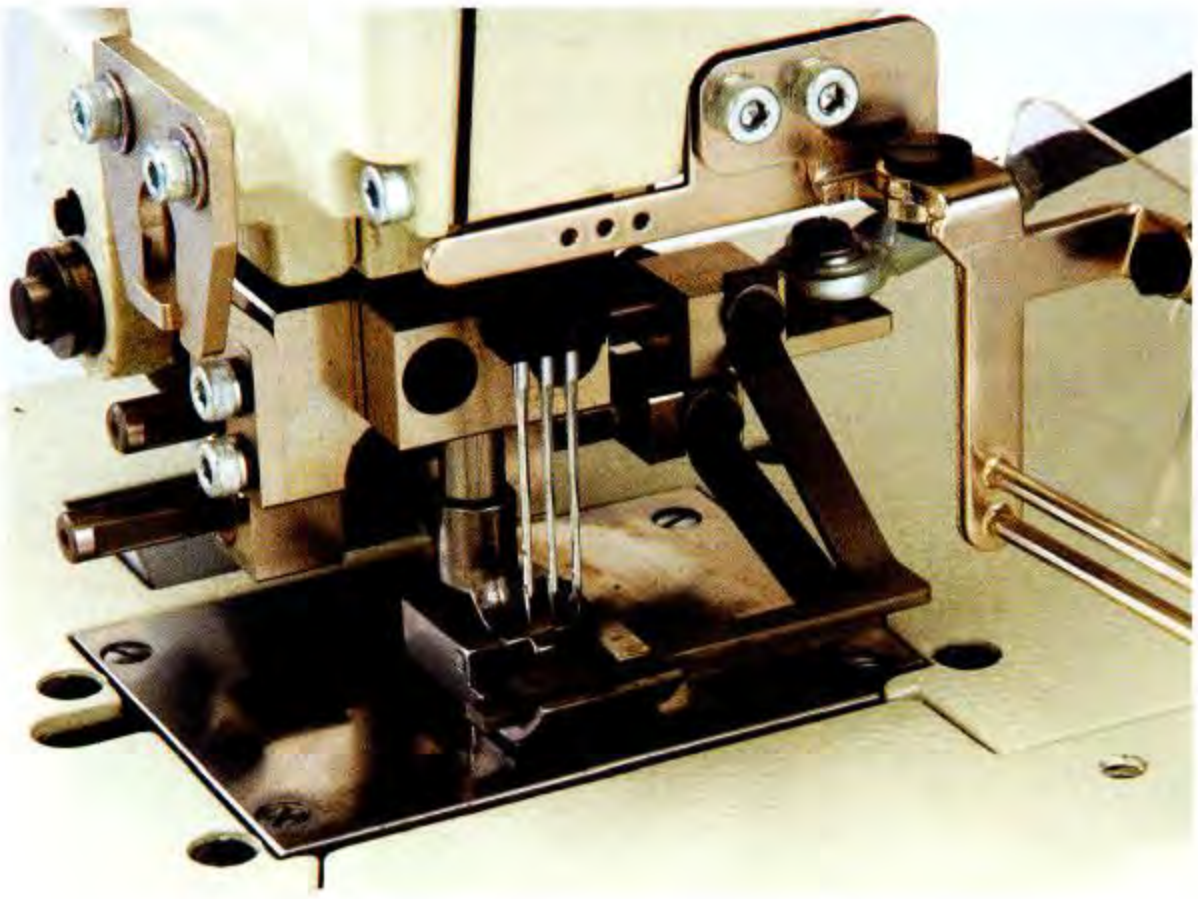
Subclass ■MR：Maquina com dispositivo de frisar ■WB：Maquina para prender cintas ■PSF：Maquina para costurar a frente de camisas ■PSM：Maquina com Dispositivo de franzido
■PS-SM：Maquina para franzir + dispositivo de franzir ■ET：Modelo de presilha de elastico ■PS-ET：Maquina com franzido (Agulha:Linha de poliester, presilha: fio de elastico) ■PQ：Maquina com franzido(agulha: Fio de poliester: presilha: fio de poliester + fio elastico) ■PL：Maquina para prender fita de linha

Option ■ MD-1：Dispositivo de medicao.

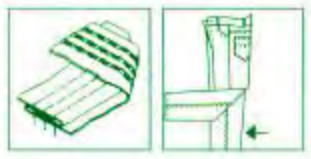
DFB、BX系列为平台式多针机。上松紧、门襟,滚条、上腰、装饰缝等用于内衣、运动服、妇女服、室内装饰品等广范围。弯针为纵向摆动,2～33针的各种针位可供选择。

分型号: ■MR:打拦装置附带 ■WB:上腰机
■PSF:门襟机 ■PSM:装饰用
■PS-SM:打拦和装饰 ■PQ:打拦<上线是普通线、下线是普通线和松紧线>
■PL:滚条机 ■ET:下线为松紧线专用

附加装置: ■MD-1:前松紧送布调整装置



DFB-1403PSM-H



3本針二重環スモッキングミシン。6種類のキャムによりあらゆるデザインが可能です厚物素材に適します。

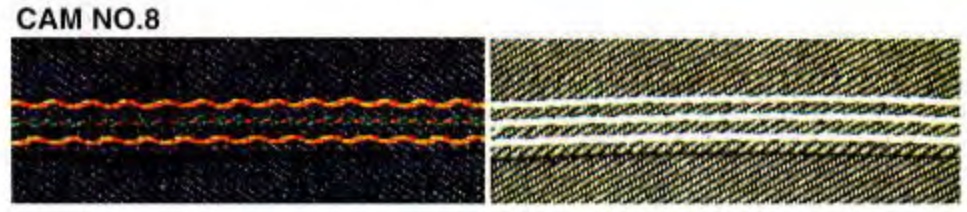
3 needle, flatbed machine with 6 different smocking cams. Suitable for heavy material.

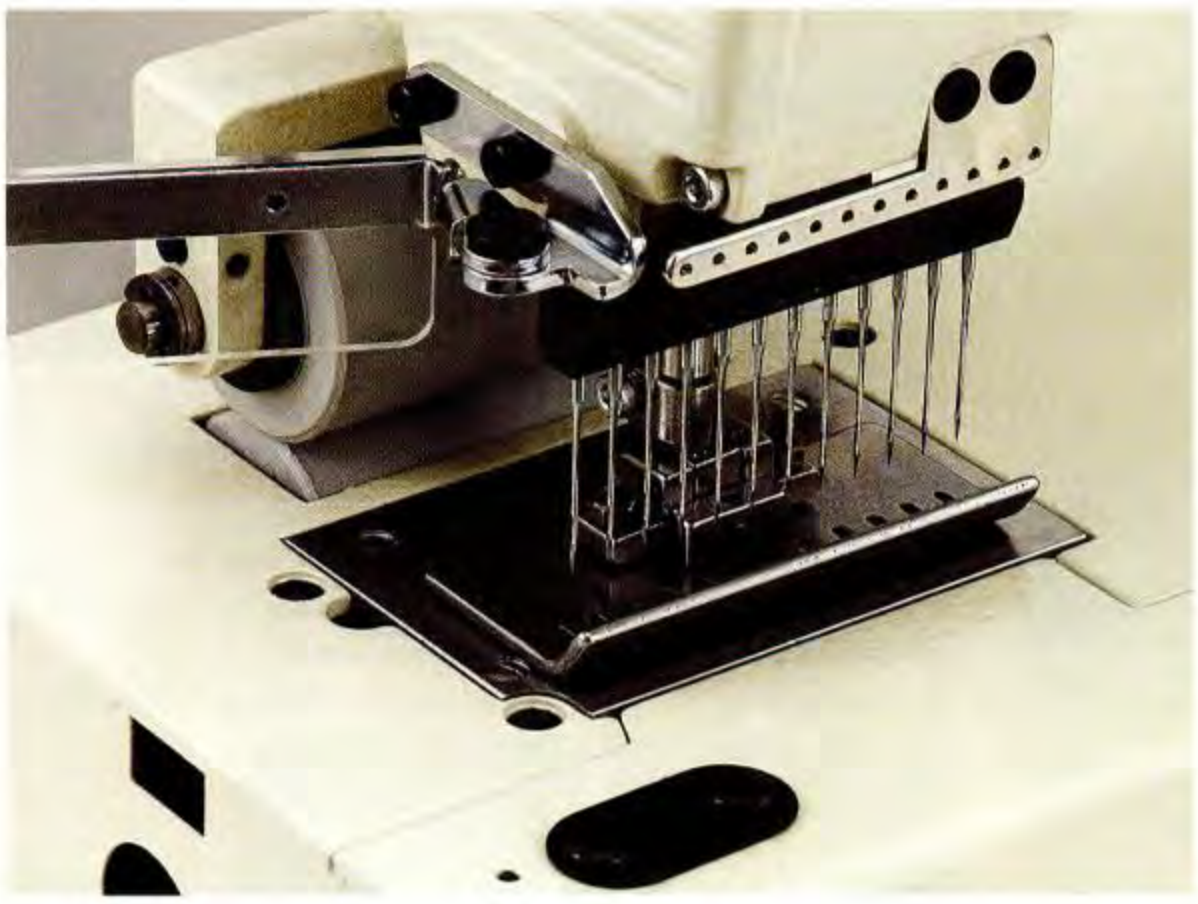
3 agujas, con puntada decorativa con 6 diferentes cams. Conveniente para material pesado.

3 agulhas, om pontos decorativos de 6 cams diferentes

3 针双重环褶饰缝纫机。用 6 种花盘所有的设计可能。
根据针规量交换，也适合厚物素材。

CAM NO.8





DFB-1412P

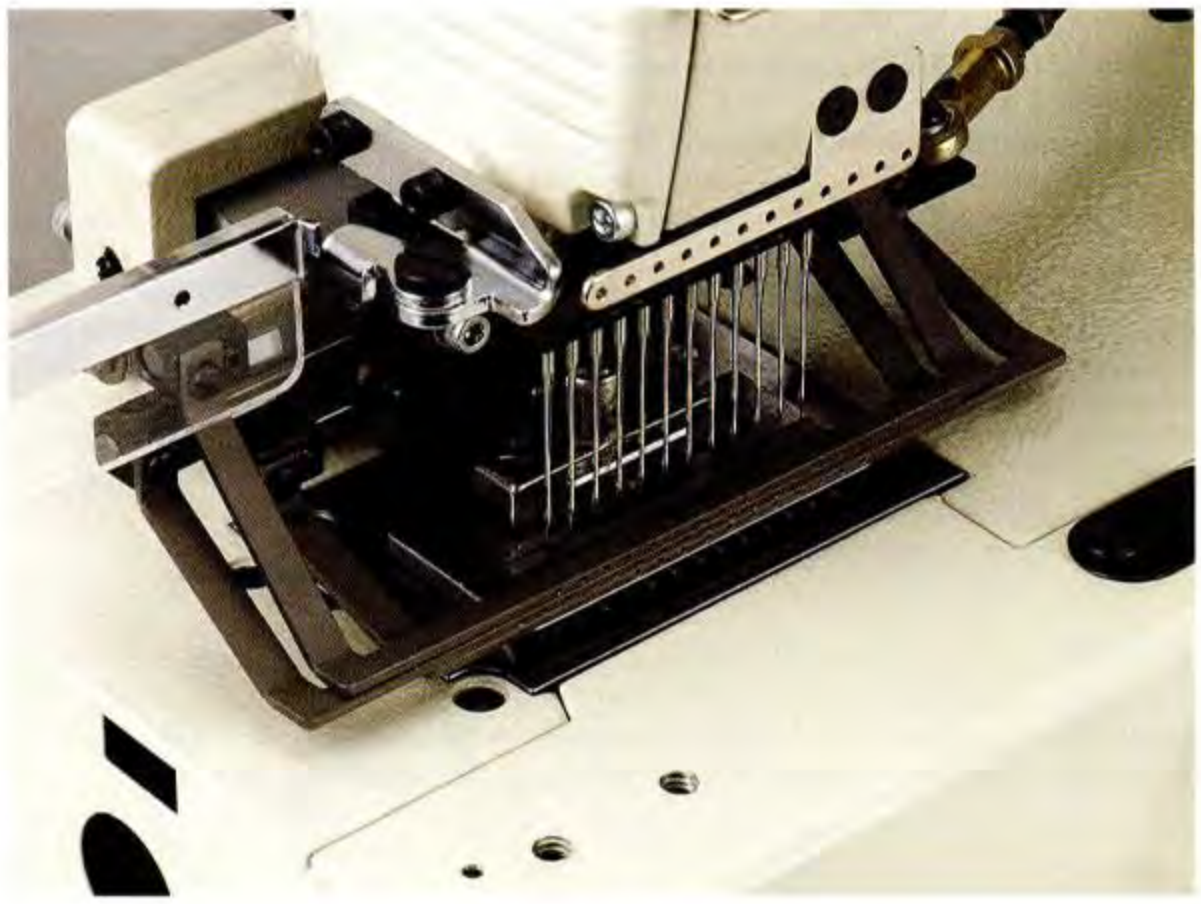
12本針二重環縫い多用途ミシン総針巾7cmまで対応します

12 needle, flatbed, double chain stitch machine with wide range of gauge sizes.Total needle space up to 70mm.

12 agujas para varias aplicaciones, con espacio de 7 cm.

Maquina de 12 agulhas, versatil, para varias aplicacoes. Espaco da agulha ate 7 cm.

12针两重环缝打揽缝纫机
由于有9种花盘可缝制各种图案（适合针幅在7cm的缝制）



DFB-1412PSM

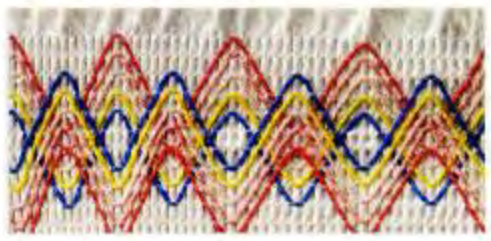
12本針二重環縫いスモッキングミシン9種類のキャムによりあらゆるデザインが可能です

12 needle, flatbed, double chain stitch machine with 9 different smocking cams.

12 agujas, con puntada decorativa con 9 diferentes cams.

Maquina de 12 agulhas para franzir. equipada com 9 tipos de mancais para costurar varios tipos de desenhos.

12针两重环缝正面装饰刺绣线迹缝纫机
由于有9种凸轮、可缝制各种图案



#1

(2,3.5m/m Available)

カムの種類及び模様　Smocking Description

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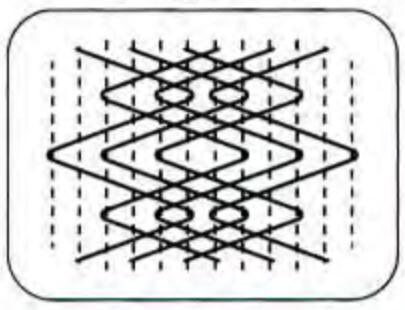

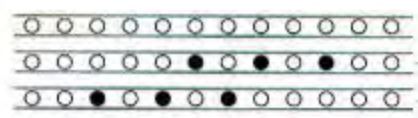

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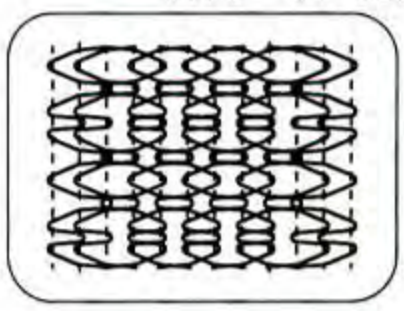

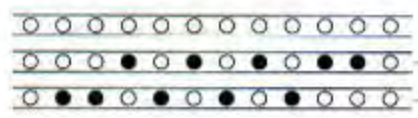

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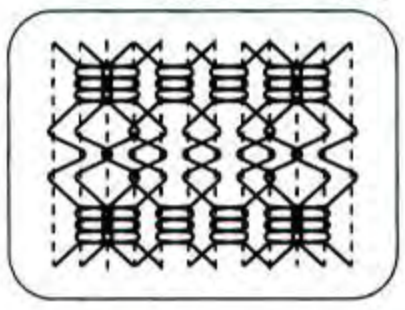

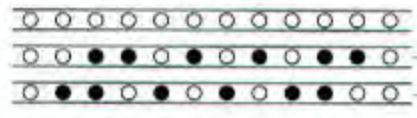

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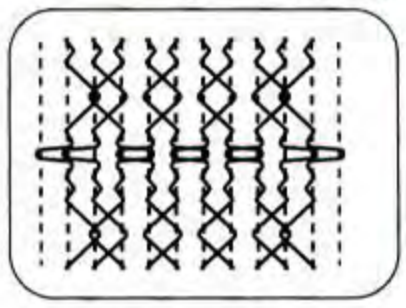

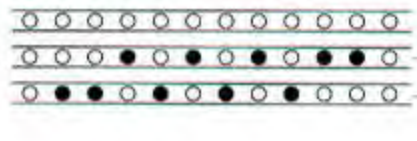

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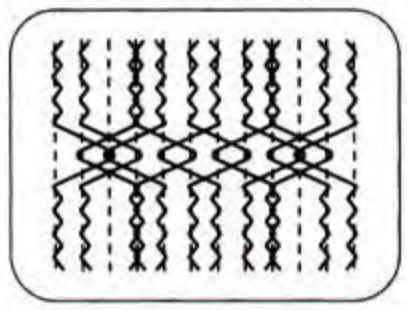

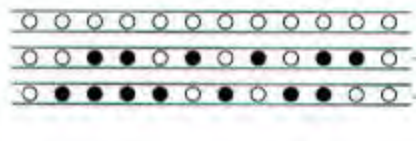

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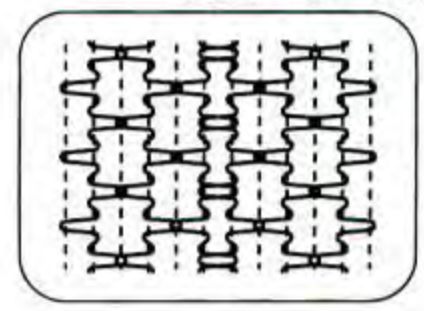

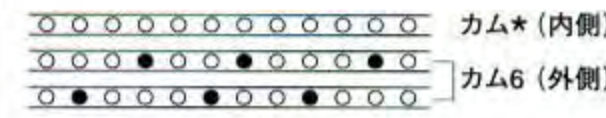

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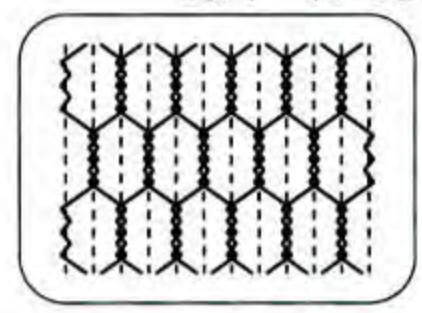

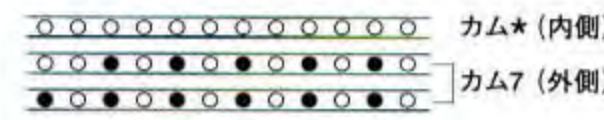

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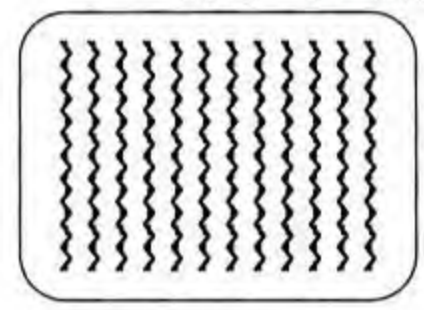

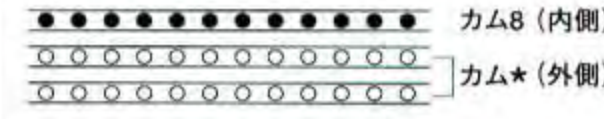

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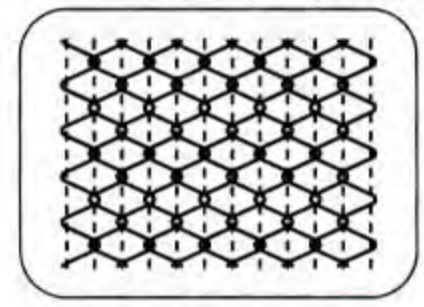
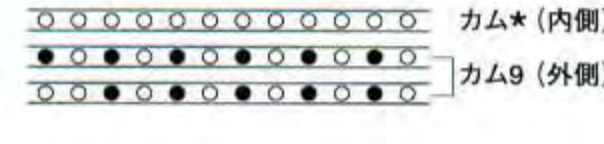
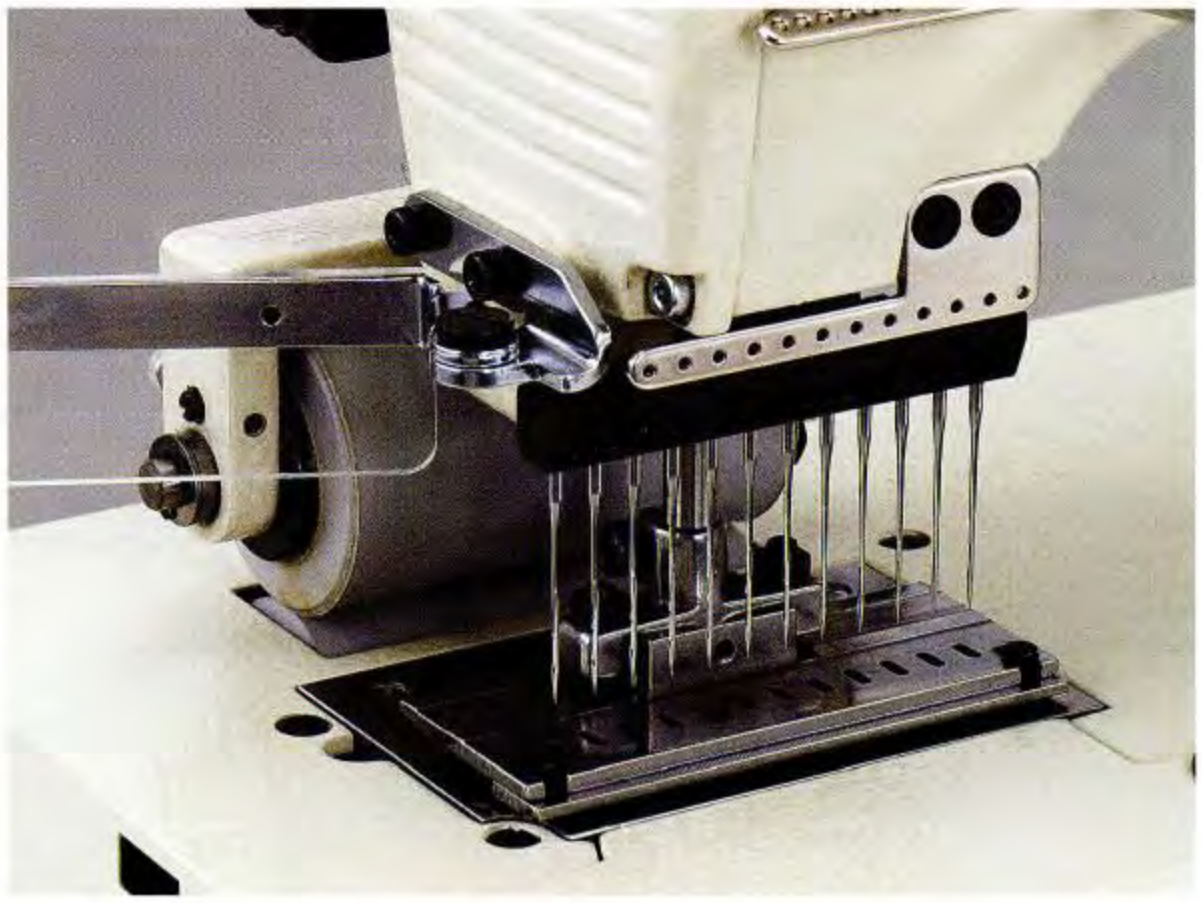






DFB-1412PS-ET

12本針二重環縫いシャーリングミシン（下糸・ゴム糸仕様）

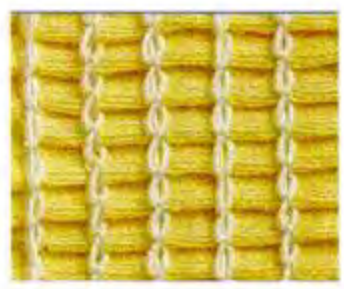
12 needle, flatbed, double chain stitch machine for shirring with elastic thread use in the loopers.

Cama plana de 12 agujas para pliegues.

Maquina de 12 agulhas de base plana para franzir (Fio de agulha fio padrao, e fio de passadeira, fio elastico).

12针两重环缝打皱缝绗机（底线可用松紧线）

FRONT



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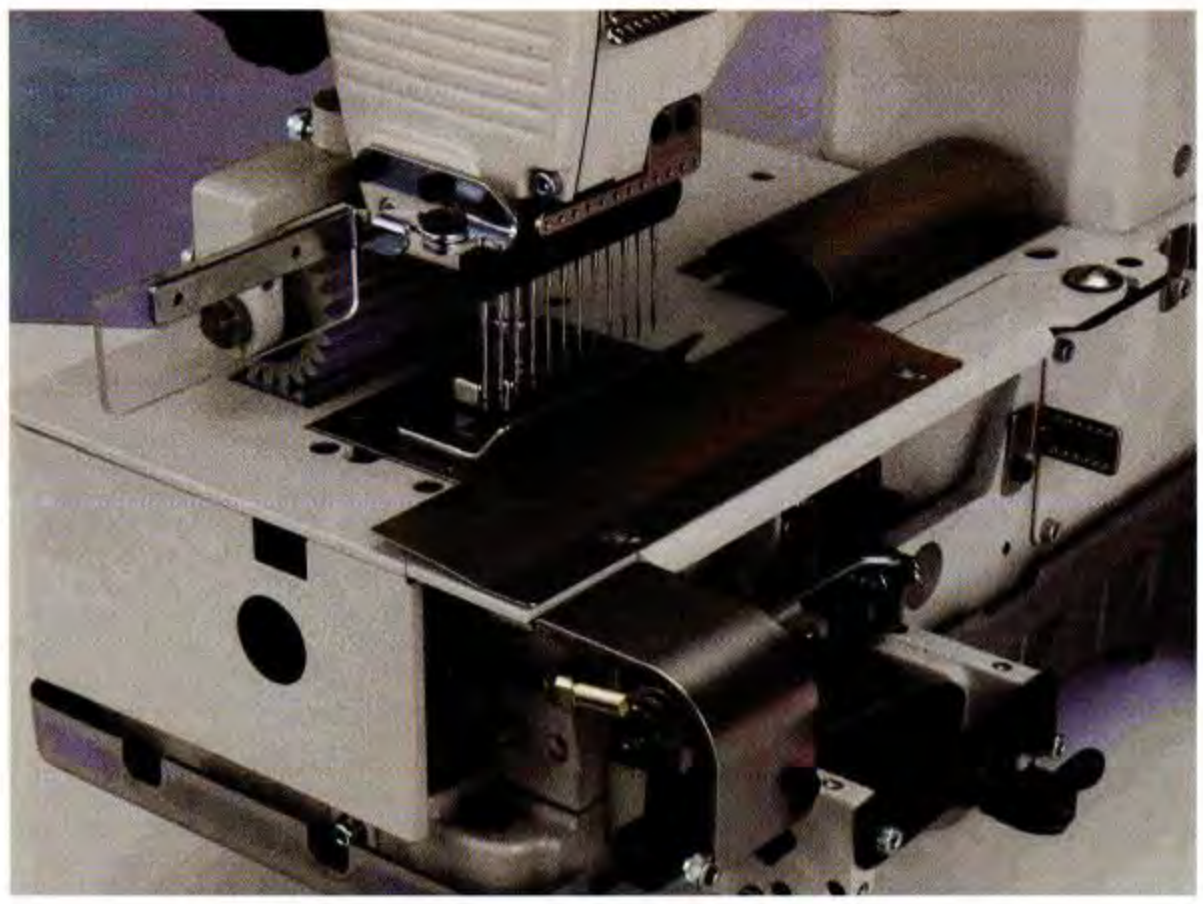


DFB-1412PQ

12本針二重環縫いシャーリングミシン上下糸ともに標準糸（スパン）を使用し、ゴム糸を上下の糸に絡めて縫われます。

12 needle, flatbed, double chain stitch machine for simultaneous shirring .Both needle and looper threads are standard (spun), and elastic thread is sewn with looper thread together.

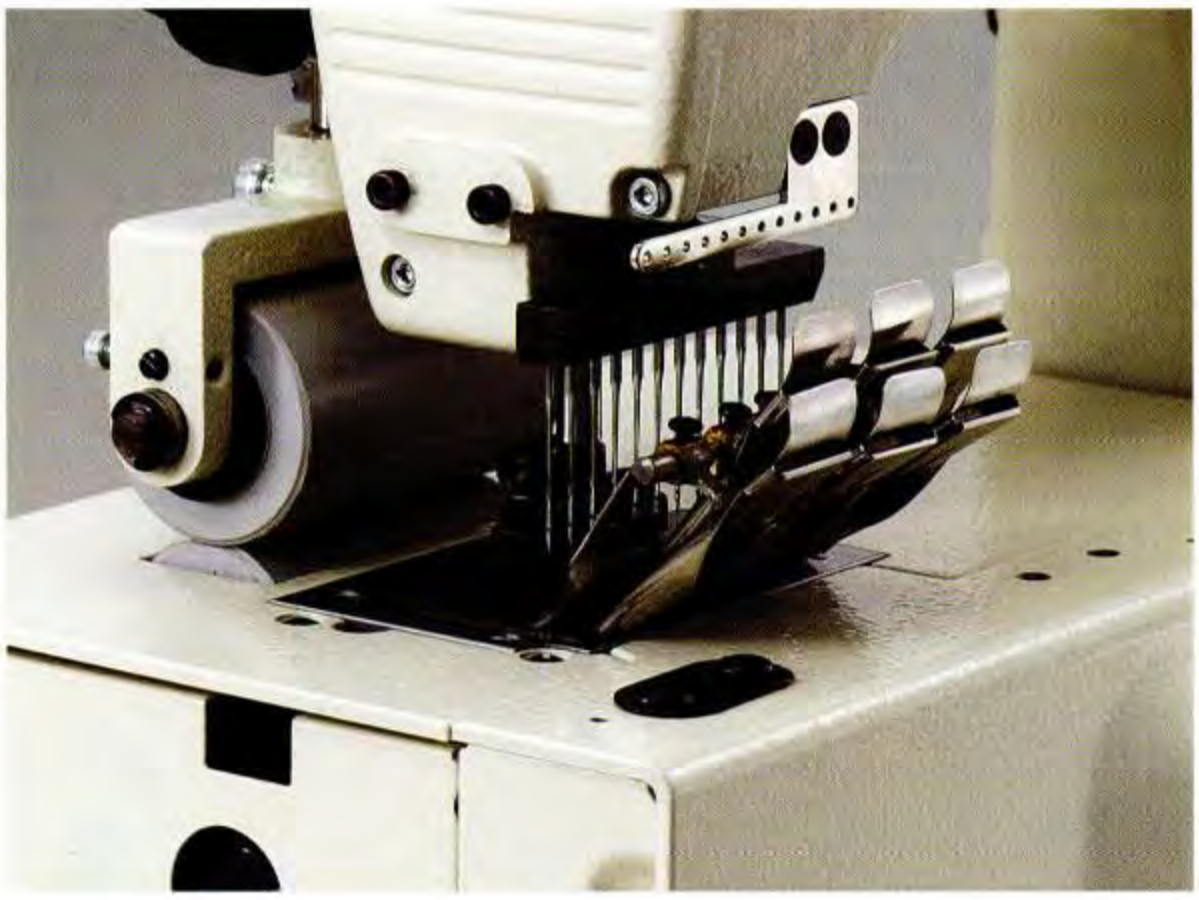
Cama plana de 12 agujas para pliegues, simultaneamente.

Maquina de 12 agulhas de base plana.

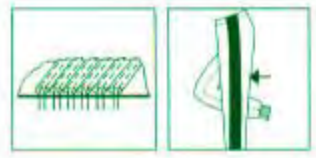
12针两重环装饰縫缝绗机（上线用普通线 底线用普通线加松紧线）

FRONT

BACK



DFB-1412PL



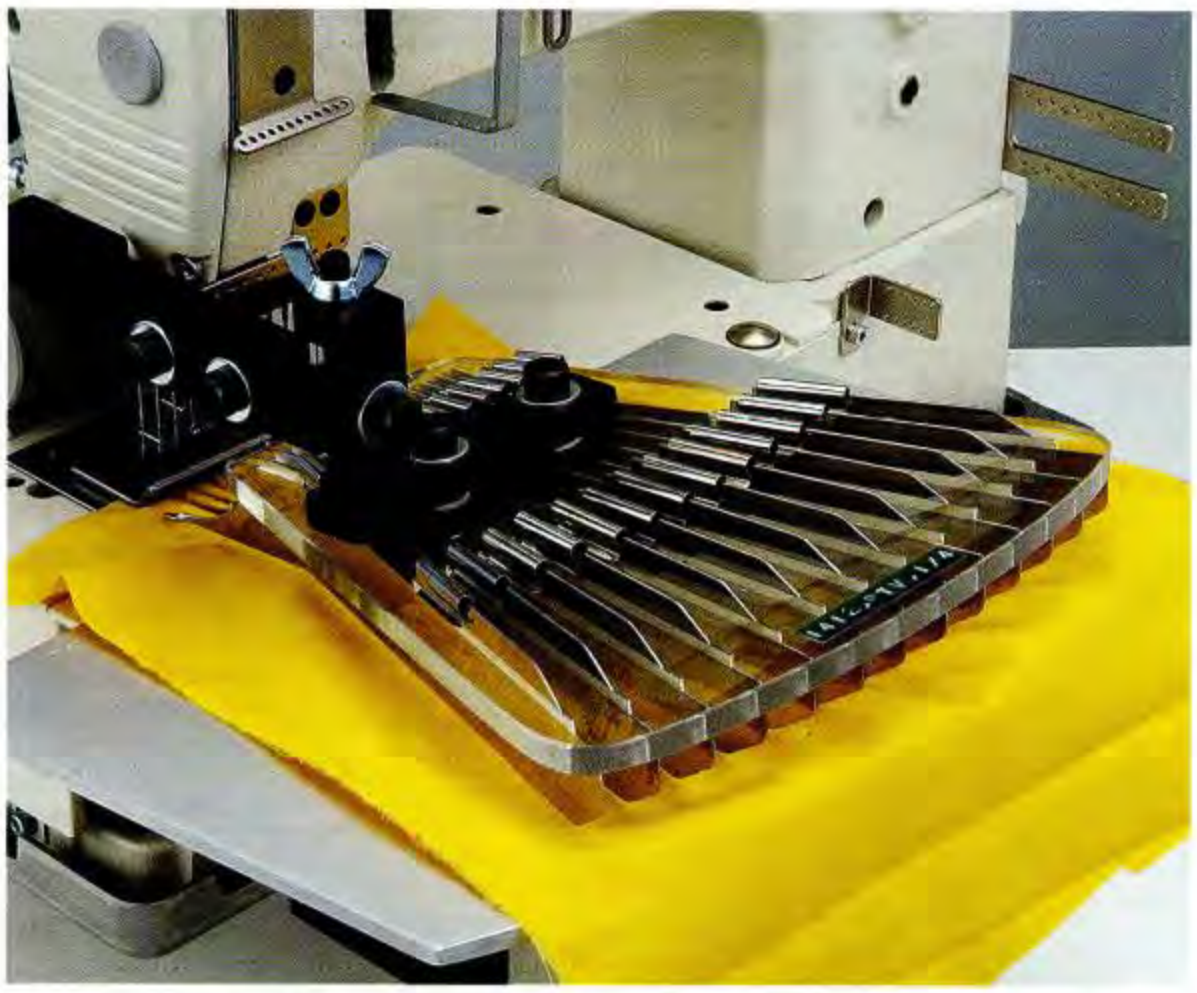
12本針二重環縫いライン付用ミシン

12 needle, flatbed, double chain stitch machine for attaching line tapes.

12 agujas para pegar lineas de cinta.

Maquina de 12 agulhas para prender fitas de linha.

12针两重环缝、上条带用缝绗机



DFB-1412PTV

12本針二重環縫いピンタック用ミシンピンタック幅は爪の交換により2、5、8m/mの3種類が可能

12 needle, flatbed, double chain stitch machine with pintucking.The width of pintucking can be changed to 2, 5 and 8mm bychanging the nail blades.

12 agujas, looper vertical, doble puntada en cadena, maquina de cama plana con accesorios para pliegues y puller.

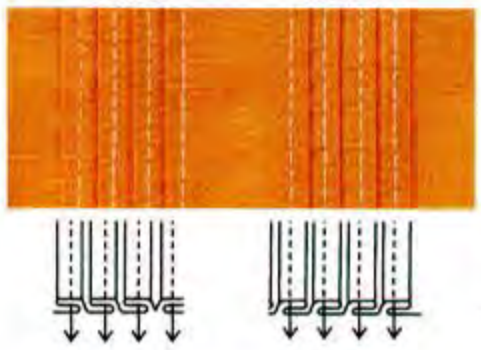
Maquina de base plana, 12 agulhas, lacada vertical, cadeia de pontos dupla, com conexao de pino pregueador e puchador.

12针两重环缝链式打摺缝纫机
PTV打摺幅度通过爪的更换可加工2,5,8m/m的3种规格

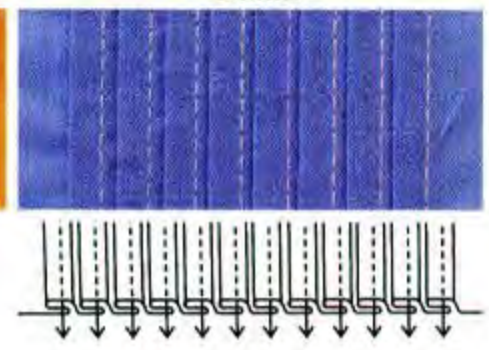
■PTV 標準仕様 / PTV standard model / PTV modelo normal / PTV modelo normal / PTV 高度加褶针明细
ビジブルタック用 / For Visible tucking / Puntada visible / Para ponto visivel / 缝明线条仔用

	ピンタック折り幅 Pin tucking width Anchura de Pin Tcking Largura do Pin Tucking PTV打褶高度	L:左倒し用ガイド Left side fold Dobra lado izquierdo Dobra lado esquerdo 左褶针	R:右倒し用ガイド Right side fold Dobra lado derecho Dobra lado direito 右褶针	C: 中心 Center Centro Centro 中心
上爪 Upper guide Guia superior Guia superior 喇叭上针		13 pcs	13 pcs	1 pc
下爪 Lower guide Guia inferior Guia inferior 喇叭下针	2mm	12pcs	12pcs	
	5mm	12pcs	12pcs	
	8mm	8pcs	8pcs	

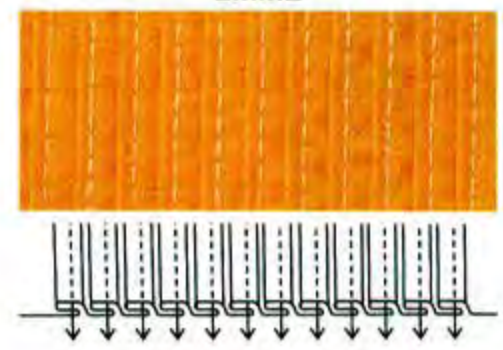
3/16" 12 needle
2mmL 2mmR



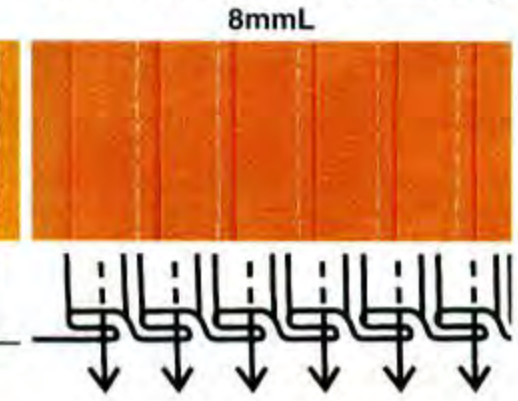
1/4" 12 needle
5mmL



3/16" 12 needle
2mmL



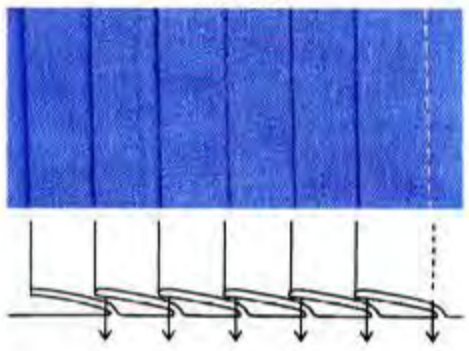
3/8" 6needle (from 3/16, 12needle)
8mmL



■PTV オプション仕様 / PTV optional model / PTV modelo opcional / PTV modelo opcional / 仕様高度加褶针明细
PTV-I インビジブルタック用 / For Invisible tucking / Para tucking invisible / Para tucking invisivel / 缝暗线条仔用

	ピンタック折り幅 Pin tucking width PTV Anchura de Pin Tucking Largura do Pin Tucking 打褶高度	ゲージ幅 Gauge size Tamano de aguja Tamanho da bitola 针距	L:左倒し用ガイド L: Left side fold Dobra lado izquierdo Dobra lado esquerdo 左褶针	押え Pressure foot Prensatela Pressao 押脚
下爪 Lower guide Guia inferior Guia inferior 喇叭下针	6mm	3/16"(4.8mm)	12 pcs	専用押え Exclusive pressure foot for PTV-I Prensatela exclusiva para PTV-I Pressao exclusiva para PTV-I 专用押脚
	8mm	1/4" (6.4mm)	12 pcs	
	11mm	* 3/8" (9.5mm)	6 pcs	
	14mm	* 1/2" (12.7mm)	6 pcs	

3/8" 6 needle
11mmL



*3/8はDFB1412Pの3/16の1本飛ばしで6本の針使い

3/8 can be useful by removing every 1needle from 1412P 3/16.

3/8 puede ser usada quitando cada 1 aguja de 1412P 3/16.

3/8 pode ser usada removendo toda 1_ agulha da 1412P 3/16.

3/8是从DFB1412的3/16的针距拔掉1根针之后使用6根针时的针距

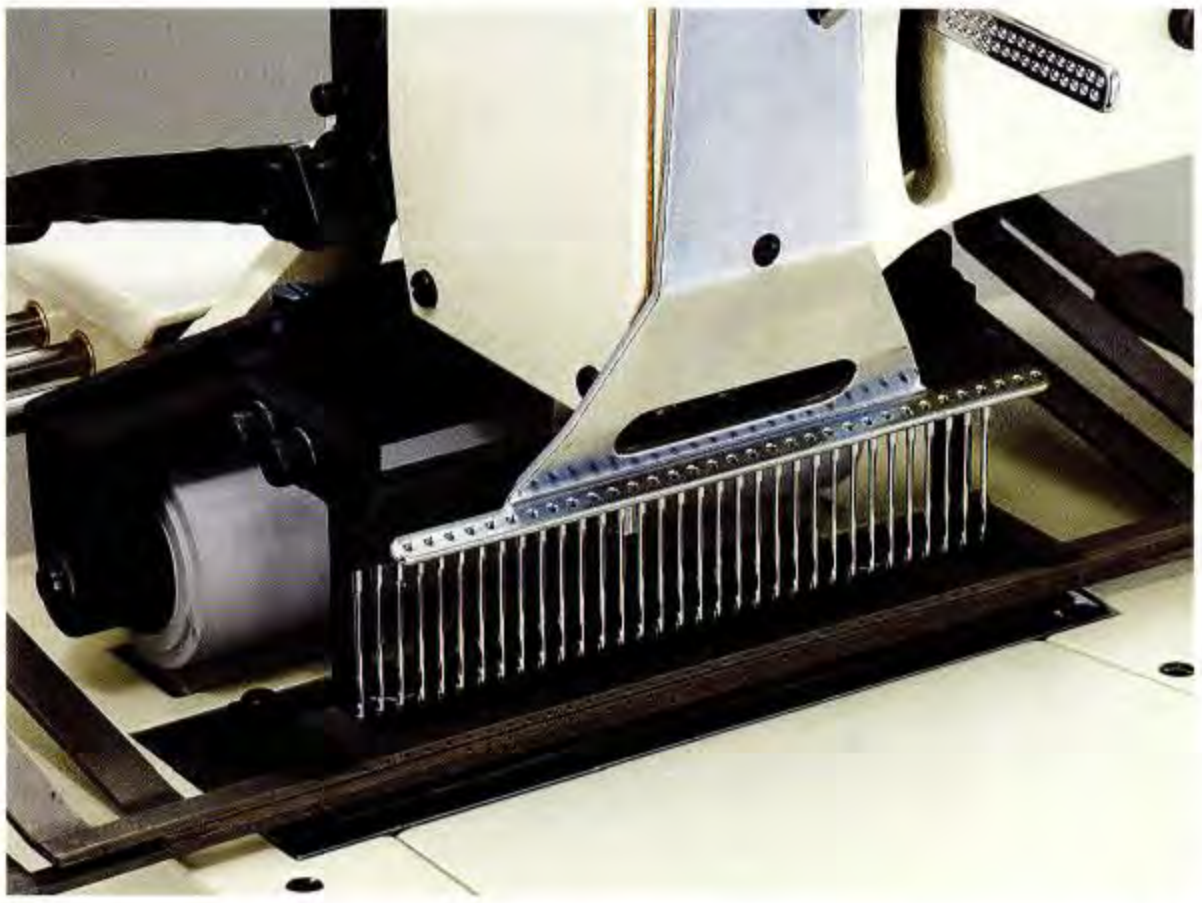
*1/2はDFB1412Pの1/4の1本飛ばしで6本の針使い

1/2 can be useful by removing every 1needle from 1412P 1/4.

1/2 puede ser usada quitando cada 1 aguja de 1412P 1/4.

1/2 pode ser usada removendo toda 1_agulha da 1412P 1/4.

1/2是从DFB1412的1/4的针距拔掉1根针之后使用6根针时的针距



BX-1433PS-SM

33本針二重環縫いシャーリング、スモッキングミシン

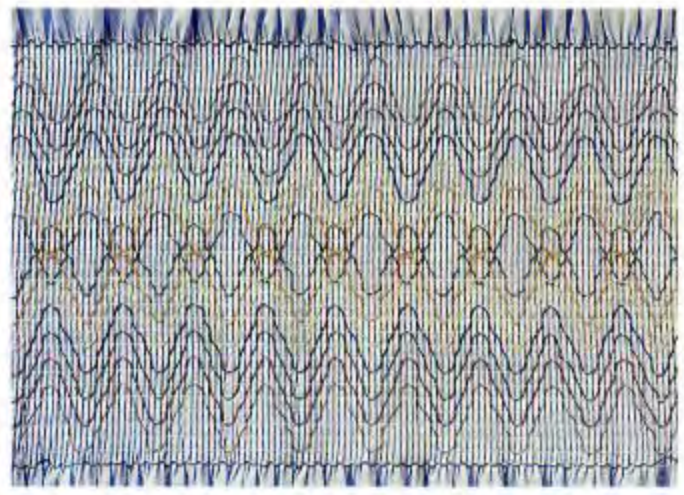
33 needle, flatbed, double chain stitch machine for

simultaneous shirring and smocking with 9 different cams for various designs.

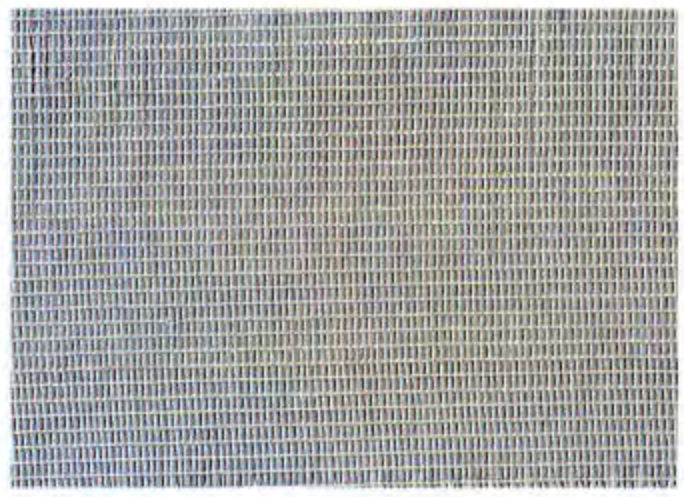
33 agujas; para pliegues y puntadas decorativas, con 9 diferentes cams (para varios disenos).

Maquina de 33 agulhas para franzir (9 mancais diferentes para varios desenhos).

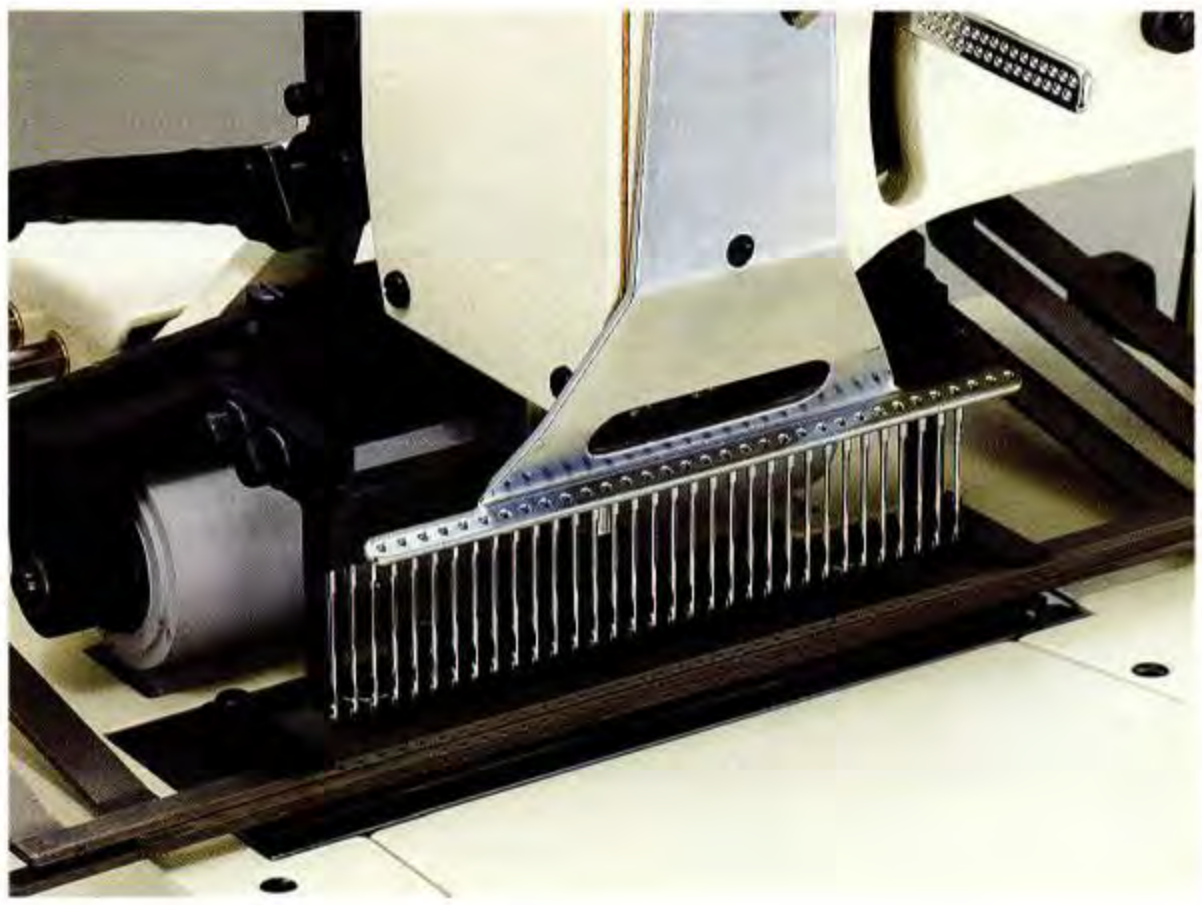
33针两重环装饰缝打揽缝纫机(打平打皱通用)



FRONT



BACK



BX-1033PSM

33本針単環ゴム糸用スモッキングミシン

33 needle, flatbed, single chain stitch machine for simultaneous shirring and smocking.Needle (upper) thread : Elastic.No looper (lower) thread.

33 agujas garfios verticals, una cadeneta, cama plana, para pliegues y puntada decorative, con arrastrador.

Maquina de 33 agulhas, presilha vertical, ponto simples, de base plana para operacoes de franzido, com extrator.

33针单线锁链底打揽缝纫机

FRONT

BACK

多本針二重環縫いミシン

INDUSTRIAL SEWING MACHINES

FX SERIES

FX-4404P

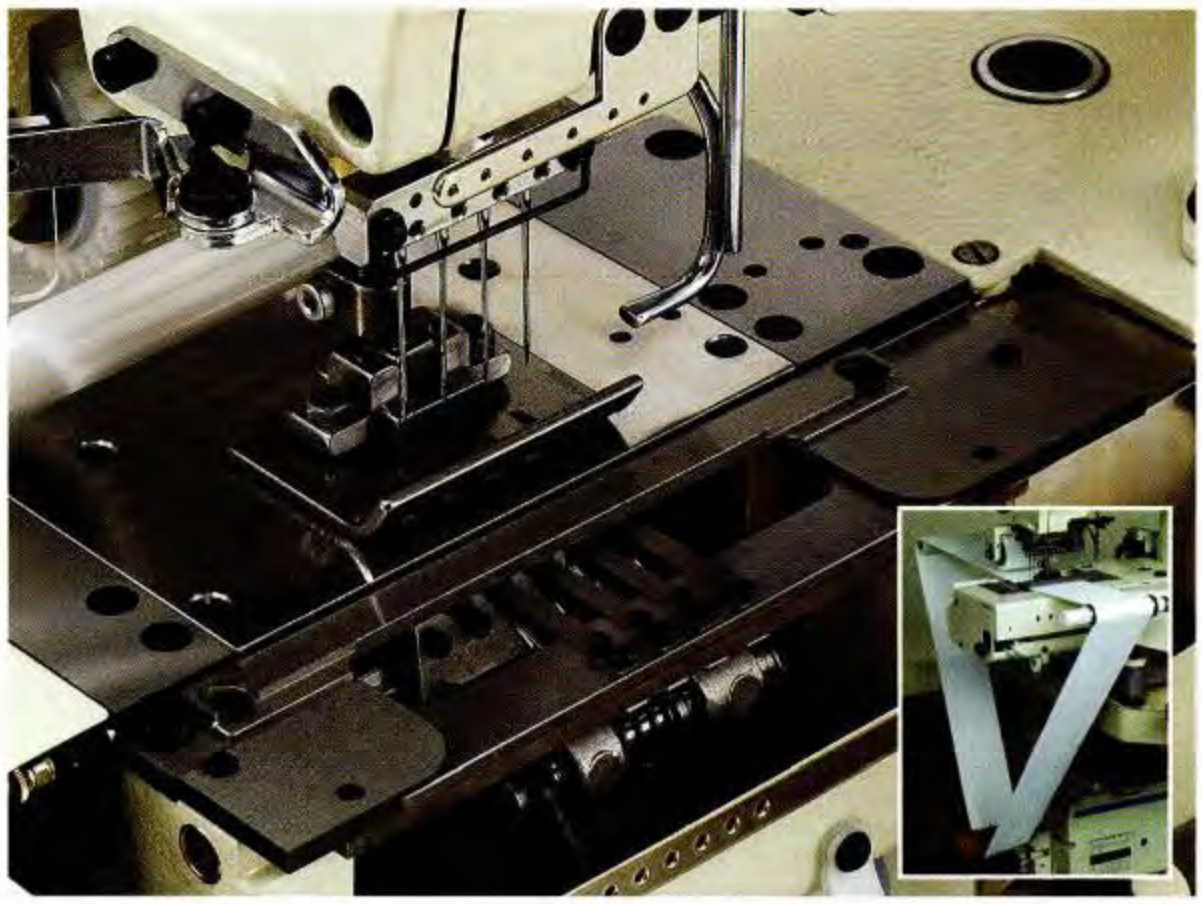
FX シリーズは、シリンダーベッド、4から12本針のルーパー縦振り高速2重環縫いミシンです。トレーニングウェアー、パジャマ、トランクス、スウェットパンツなどのゴム付けからライン付けまで種々の用途に応用できます。ゴム張り装置、エアー式開閉フォルダー、糸切装置もサブモデル、オプションとしてご利用いただけます。またエアー式糸切装置は当社独自の設計による機構で二つのエアーシリンダーを用いており確実に糸をカットし糸残りも非常に短く生産性の大幅な向上が可能です。また、シリンダーベッドの外周は420mmで子供服など丸物ゴム付けも容易にすることができます。
サブクラス ■PL：ライン付けミシン
オプション ■MD-1：前ゴム送り装置 ■RT-1：ゴム張り装置 ■UTC：エアー式糸切装置 ＋ エアーワイパー

FX series is a versatile multi-needle, cylinder bed, double chain stitch machine with vertical looper movement mechanism. Applications: attaching elastic and line tape to sweat pants, pajamas, trunks and similar garments. Major features of this series are wide range of available gauge sizes(4～13 needles), cylinder bed (420mm in circumference), elastic guide roller and Kansai Special's unique rear puller mechanism. These features make this series popular for attaching preclosed elastic. Kansai Special's unique UTC (automatic thread cutter) increases productivity by trimming thread accurately and leaving less thread,which curtail production cost.
Subclass ■ PL : machine for attaching line tapes
Option ■MD-1 : Metering device ■RT-1 : Elastic expanding roller ■UTC : Automatic under thread trimmer + air wiper

Multiagujas (4-13) cama cilindrica alta velocidad doble cadeneta. Con movimiento del garfio vertical, se puede usar para unir elastico y cinta, en ropa atletica, de dormir, expandidor de elastico, guia de aire para folder, y automatico corta - hilos, tambien estan disponibles en subclasses y opciones. Kansai Special automatico corta - hilos, aumenta la productividad, usando 2 cilindros de aire, cortando el hilo con exactitud, mientras mantiene el resto del hilo corto, Circumferencia (420 mm)
Subclass ■PL: unir - cinta
Opcione ■MD-1: Docificador de elastico ■RT-1: Expandidor de elastico ■UTC: Corta- hilos, deslizador de aire

A serie FX e uma maquina de base cilindrica, com multiplas agulhas (4 - 13 agulhas), de alta velocidade, cadeia de pontos dupla,com lacada de movimento vertical. Esta serie tem varios tipos de aplicacoes para afixacao de elastico e linha de fita de agasalhos,pijamas, calcoes de banho, calcas de agasalhos, etc. Este, alem do rolamento de estiramento de elastico, dispositivo para dobrar guiado a ar e aparador de linha estao disponiveis como sub-modelos e dispositivos opcionais. Nosso mecanismo de aparador de linha automatico de projeto exclusivo permite a elevacao da produtividade tremendamente e corta a linha precisamente, tao bem quanto aparar todas as sobras de linha, como resultado da adocao de dois cilindros de ar. A circunferencia da base cilindrica e de 420mm para que a afixacao do elastico embutido se torne mais facil.
Sub classe maquina ■PL para afixacao de fitas de linha.
Opcional ■MD-1: dispositivo de medicao. ■RT-1: rolamento para estiramento de elastico ■UTC: automatico sob o aparador de linha + limpador a ar

FX 系列是半筒式4针～12針、弯针纵向运动高速双重环缝绷机。各种服装的上松紧,滚条等。
松紧张力器、气动开闭卷边器、自动切线等分型号、附属装置可供利用。
独自设计的自动切线装置、确保切线和线残头很短。提高生产率。
筒形外周长420mm、童装及上环状松紧变得很容易操作。
分型号： ■PL:滚条用缝绷机
附属装置: ■MD-1:前送松紧装置
■RT-1:松紧张力器
■UTC:气动切线装置 气动上抓线装置



RT-1

FX-4404P-UTC

4本針二重環縫いシリンダー丸ゴム付け用自動糸切り装置付ミシン

4 needle, cylinder bed, double chain stitch machine for attaching preclosed elastic, with pneumatic thread trimmer.

Cama cilindrica de 4 agujas, para pegar elastico en prendas precosidas, corta hilo automaticamente

Maquina de base cilindrica de 4 agulhas, para afixacao de elastico embutido, com aparador de linha pneumatico.

4针双重链锁缝半筒式、液压式环形松紧带用缝纫机(带自动剪线装置)

FX-4404PMD

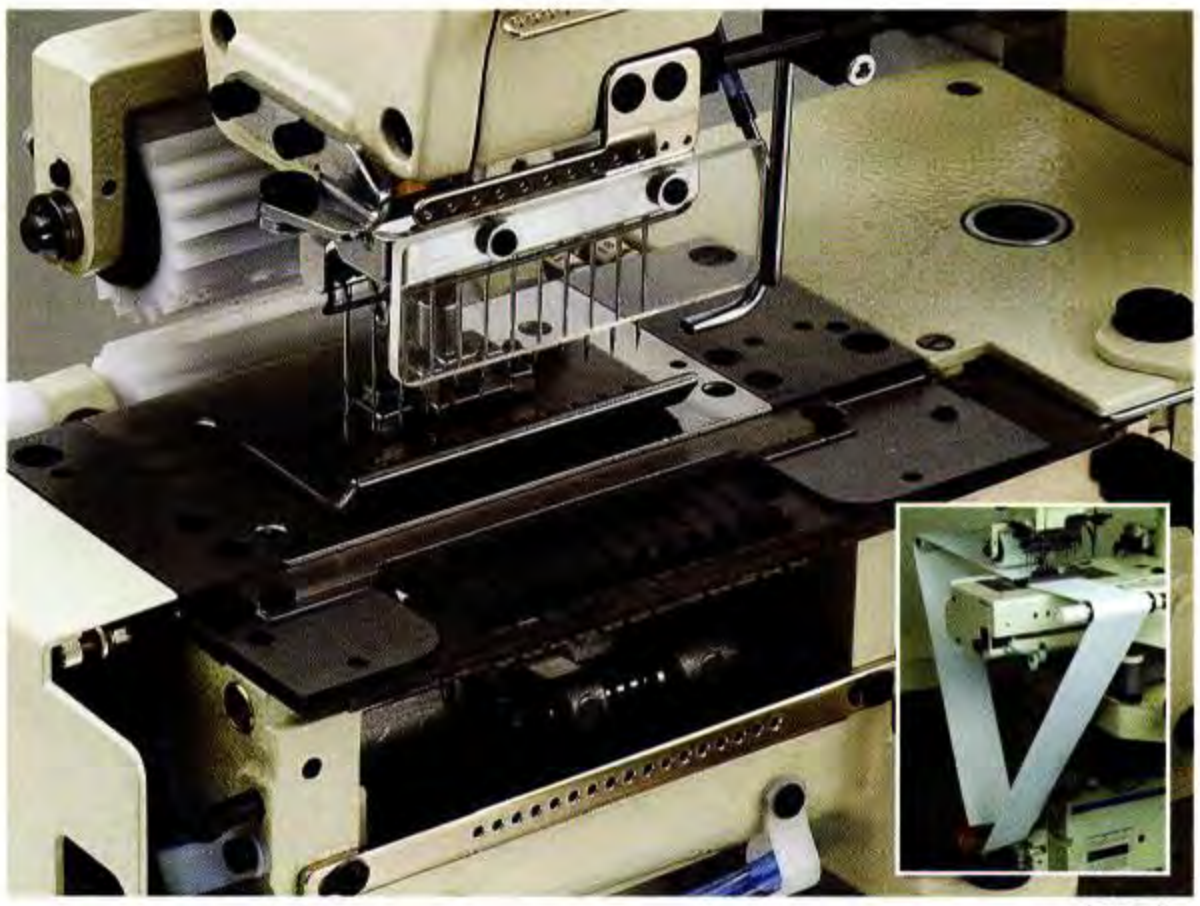
4本針二重環縫いシリンダーゴム付けミシン(前ゴム送り装置付)

4 needle, cylinder bed, double chain stitch machine for attaching elastic, with metering device.

Cama cilindrica de 4 agujas, para pegar elastico.Con dosificador de elastico.

Maquina de base cilindrica de 4 agulhas para afixacao de elastico, com dispositivode medicao.

4针双重链锁缝半筒式上松紧带用 带前松紧带装置缝纫机



RT-1

FX-4412P-UTC

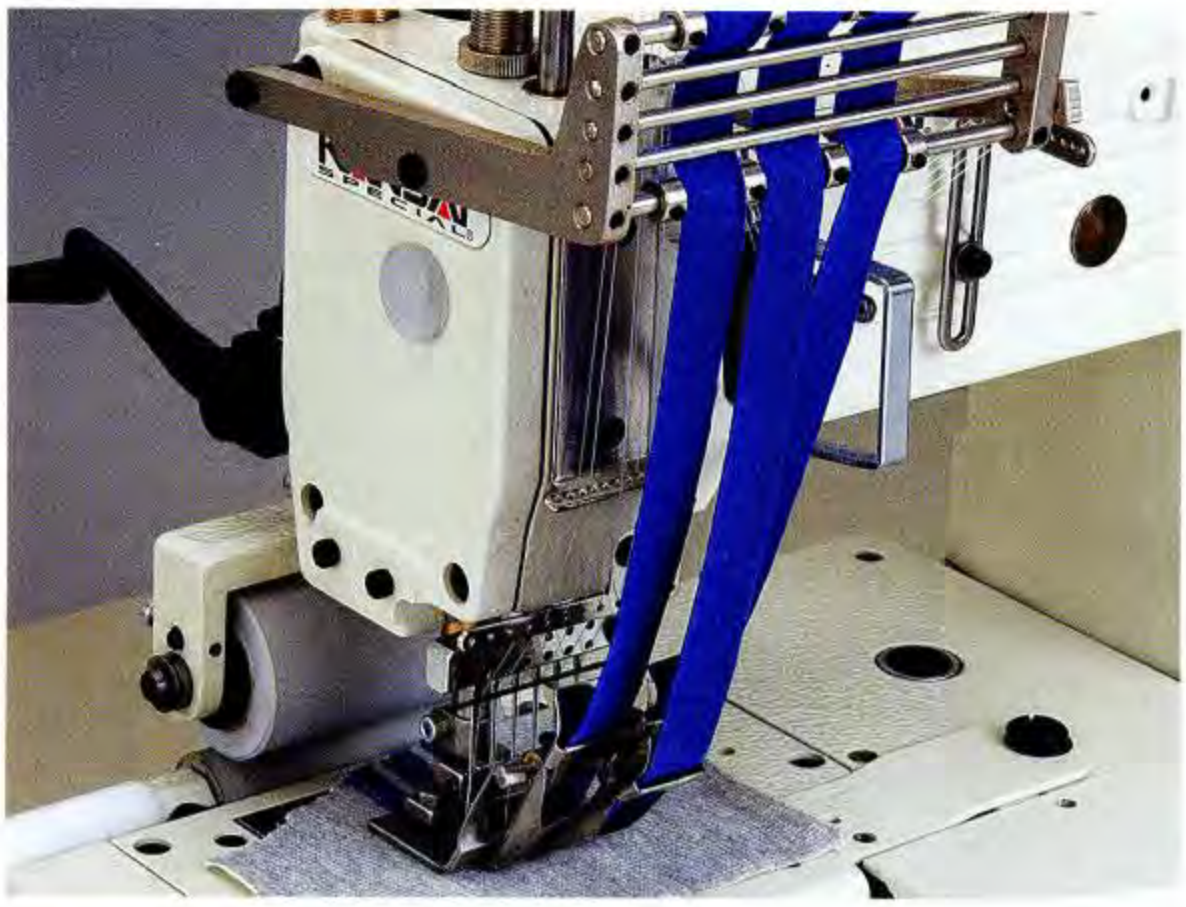
12本針二重環縫いシリンダー丸ゴム付け用自動糸切り装置付ミシン

12 needle , cylinder bed, double chain stitch machine for attaching preclosed elastic with pneumatic thread trimmer.

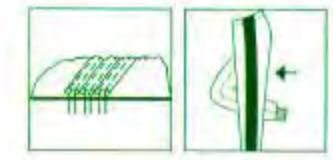
Cama cilindrica de 12 agujas para pegar elastico en prendas precosidas, corta hilo automaticamente.

Maquina de base cilindrica de 12 agulhas, para afixacao de elastico embutido, com aparador de linha automatico.

12针二重环缝半筒式上松紧带用缝纫机 带自动剪线装置



FX-4406PL



6本針二重環縫いラインテープ付け用ミシン

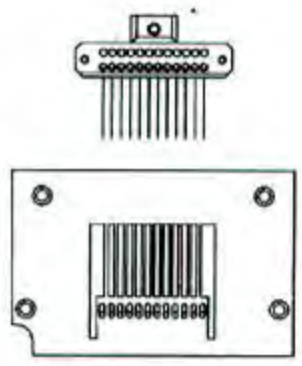
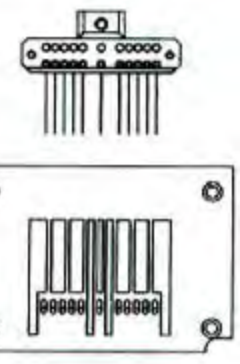
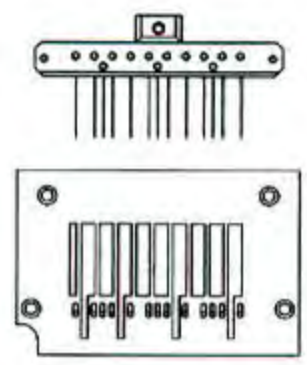
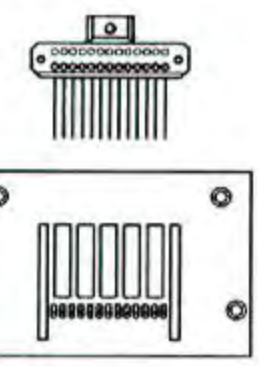
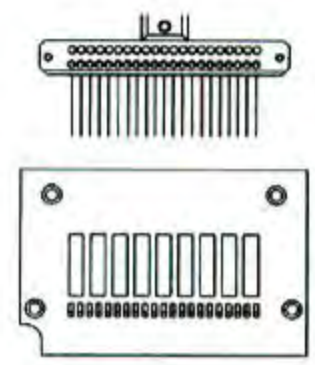
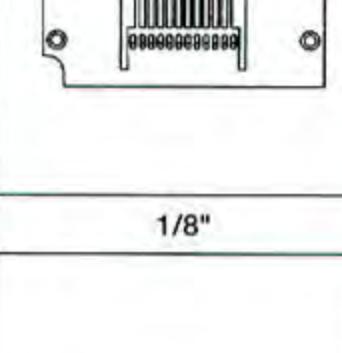
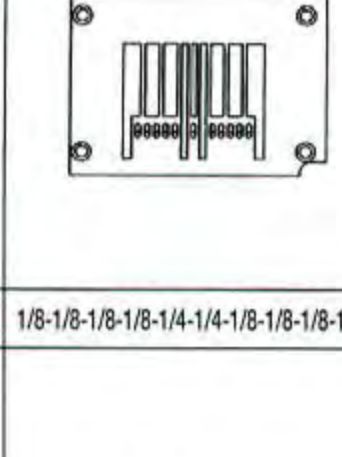
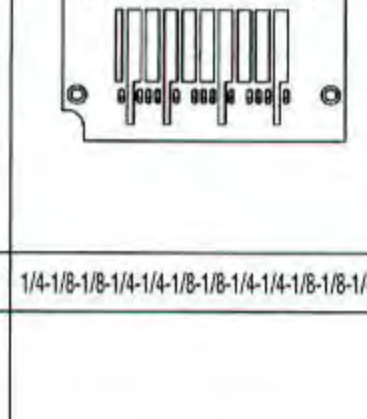
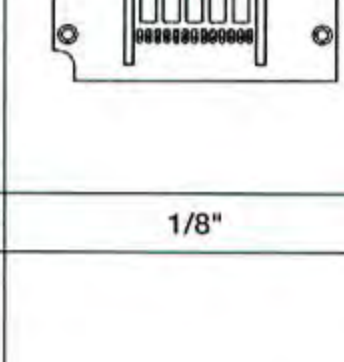
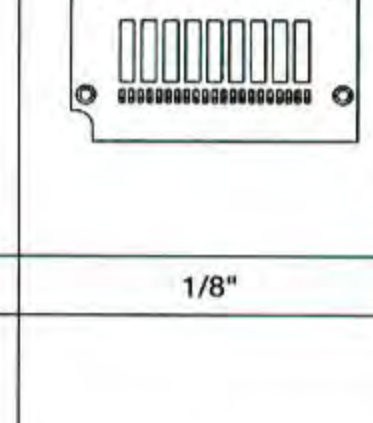
6 needle, cylinder bed, double chain stitch machine for attaching line tapes.

6 agujas para pegar lineas de cinta.

Maquina de 6 agulhas para afixacao de fitas de linha.

6针二重环缝半筒式上捆条用缝纫机

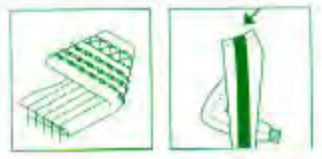
■多針ミシン特殊ゲージ表
Special gauge description for Multi gauge machine
Descripcion de tamano de aguja especial para Multi agujas
Descricao de bitola especial para maquina Multi agulhas
多针缝纫机特殊针距表

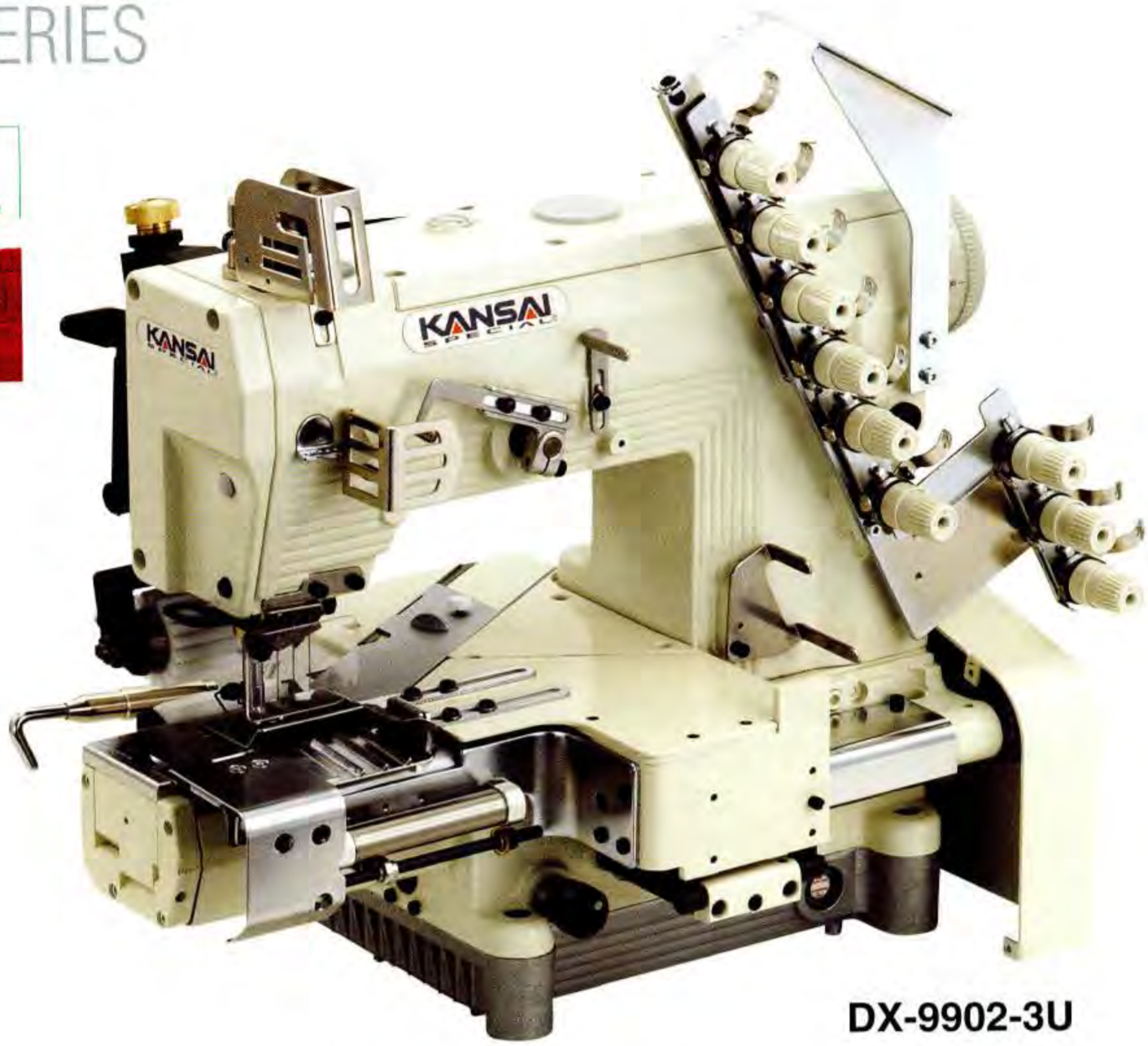
Model	FX-4406PK	FX-4411P	FX-4413P	FX-4413PK	FX-4421P
Gauge					
	1/8"	1/8-1/8-1/8-1/8-1/4-1/4-1/8-1/8-1/8-1/8"	1/4-1/8-1/8-1/4-1/4-1/8-1/8-1/4-1/4-1/8-1/8-1/4"	1/8"	1/8"
Thread tension set					
	6x6 (uppeerXlower)	4x4	12x12	6x6	12x12
Overview					
Puller	Gear	Gear	Gear	Gear	Gear

多本針二重環縫いミシン

INDUSTRIAL SEWING MACHINES

DX SERIES





DX-9902-3U

DX シリーズは、シリンダーベッド(外周340mm)、4から5本針のルーパー横振り高速2重環縫いミシンです。トレーニングウェアー、パジャマ、トランクス、スウェットパンツなどの丸物用ゴム付け専用モデルです。ゴム張り装置、エアー式開閉フォルダー、糸切装置、左メス付きもサブモデル、オプションとしてご利用いただけ腰部ゴム付けの多様な縫いが可能です。

サブクラス ■2-3U :2本針(下面飾り入り)十3本針二重環縫いミシン
■2-3ULK :左メス付き2本針(下面飾り入り)十3本針二重環縫いミシン

オプション ■UTC:エアー式糸切装置 + エアーワイパー
■RT-1: ゴム張り装置

DX series is a cylinder bed(circumference 340m/m), poly-needle (4～5 needles), double chain stitch machine with a horizontal looper movement mechanism. Applications: attaching elastic and attaching preclosed elastic Major feature of this series is a cylinder bed. This feature gives you benefits when you work with exercise wear, pajamas, trunks, boxers and similar garments.

Subclass ■2-3U :Machine with compound sewing of 2-needle bottom coverstitch and 3-needle double chain stitch
■2-3ULK :Machine with compound sewing of 2-needle bottom cover stitch and 3-needle double chain stitch along with a fabric trimmer positioned to the left side of the needles.

Option ■ UTC:Pneumatic-Automatic under thread trimmer + air wiper
■RT-1 : Elastic expanding roller

Cama cilindrica (340 mm circumferencia) multiagujas (4 - 6) doble cadeneta con movimiento horizontal del garfio. Excelente para unir elastico, incluyendo pre-cosido en ropa deportiva, de dormir, etc. Aparatos opcionales, expandidor de elastico, guia de aire para folder, corta - hilos con aire, cuchillo izquierdo para cortar el borde de la tela, estas opciones hacen esta serie apropiada para unir elastico en la cintura.

Subclass ■2-3U: 2 agujas (recubridor inferior) + 3 agujas doble cadeneta
■2-3ULK: Igual que arriba, con cuchillo izquierdo

Opciones ■UTC: Neumatico - automatico, corta - hilos, deslizador de aire
■RT-1: Expandidor de elastico

A serie DX e uma base cilindrica (circunferencia de 340mm), 4-5 agulhas, cadeia de pontos dupla, equipada com mecanismo de lacada de movimento horizontal. Assim esta serie e a mais adequada para a afixacao de elastico e elastico embutido em roupas esportivas,pijamas, calcoes de banho, calcas de agasalhos, etc. Este rolo de estiramento de elastico, dispositivo para dobrar guiado a ar,aparador de linha a ar e lamina esquerda para aparar as sobras de tecido estao a disposicao na forma de dispositivo opcional e adequadas para diversos tipos de costura, para afixacao de elastico na cintura.

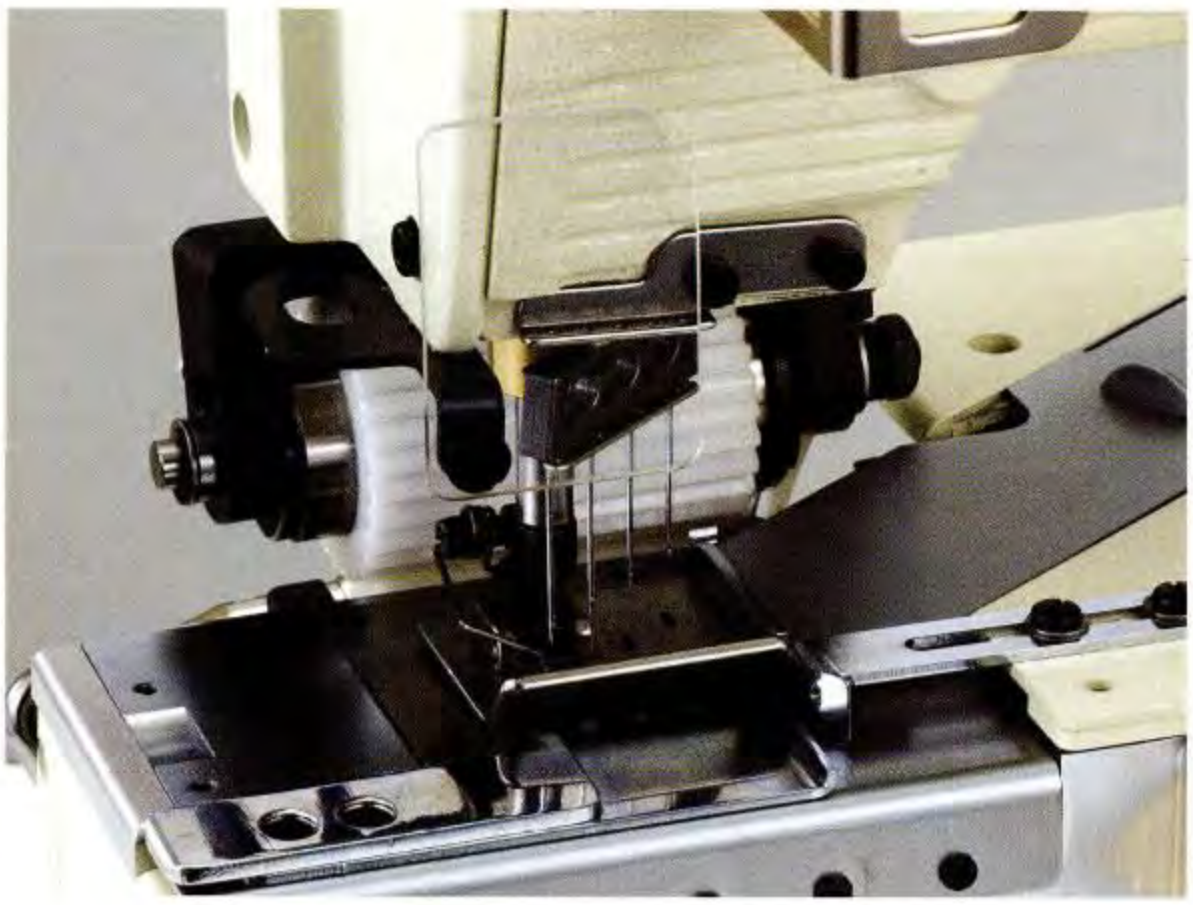
Sub classe ■2-3U:Maquina com 2 agulhas (com cobertura de ponto inferior) + 3 agulhas, cadeia de pontos dupla.
■2-3ULK:2 agulhas (com cobertura de ponto inferior) Maquina com + 3 agulhas, cadeia de pontos dupla, com lamina esquerda.

Opcional ■ UTC:Pneumatico - Automatico sob o aparador de linha + limpador a ar.
■RT-1: rolamento para estiramento de elastico

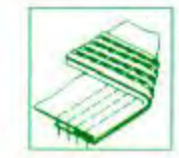
DX系列是半筒式<外周长340cm>、4针到5针、弯针横向运动的高速双重环缝绷机。
用于各种环状松紧带上腰的专用机。
松紧张力器、气动开闭卷边器,自动切线、左切刀等附加装置可用于多种腰部上松紧。

分型号: ■2-3U:2针<下面绷缝>和2针二重环缝
■2-3ULK:带左切布刀,2针<下面绷缝>和3针二重环缝

附属装置: ■UTC:气动自动切线装置和气动上抓线
■RT-1:松紧张力器



DX-9900-4U



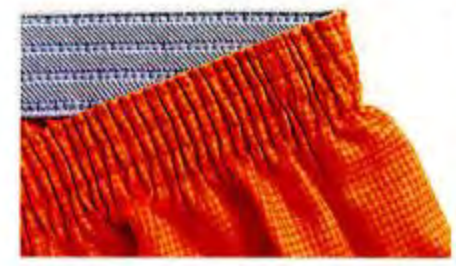
4本針二重環縫いシリンダーベッドゴム付用ミシン

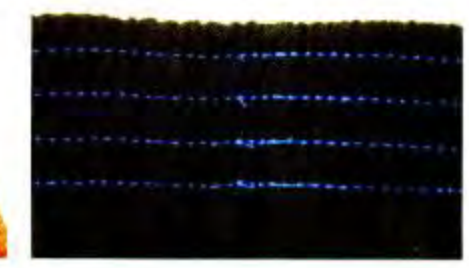
4 needle, cylinder bed, double chain stitch machine for attaching elastic.

Cama cilindrica de 4 agujas para pegar elastico.

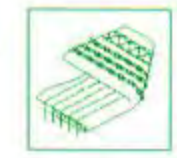
Maquina de base cilindrica, 4 agulhas para afixacao de tira de elastico.

4针半筒式 弯针横向运动、上松紧带用缝纫机





DX-9902-3U



2本針下面飾り+3本針二重環縫いシリンダーベッドゴム付用ミシン

2 needle for bottom coverstitch, and 3 needle for double chain stitch, cylinder bed for attaching elastic.

2 agujas para recubridor inferior 3 agujas para doble cadeneta, cama cilindrica para pegar elastico.

2 agulhas para cobridor inferior e superior 3 agulhas para ponto corrente com base cilindrica para pregar elastico.

半筒式2针下面绷缝线迹、和3针锁链底缝纫机

RT-1

ゴム張り装置

Elastic expanding roller.

Rolamento para estiramento de elastico.

Rolamento para estiramento de elastico.

松紧张力器

多本針二重環縫いミシン

INDUSTRIAL SEWING MACHINES

FBX SERIES

FBX-1104P

FBXシリーズは、ジーンズ、作業服など中厚から厚物まで幅広く縫える腰帯付け用、シリンダー型
針送り2〜6本針二重環縫いミシンです。更にプーラー付きがオプションで装備することができます。また、針送りと下送りが連動式ですのでプッシュボタンで送り目を変える時も同時に送り量の変更ができます。
従来の縫いズレやパッカリング、厚物縫いのスリップなども針送りにより問題なく縫うことが可能です。ルーパー機構は縦振り機構を採用していますので糸もとうしやすく、またシリンダーベッドですので、腰帯付け以外の丸物、ゴム入れ、前立てなど最大70mm幅までの幅広い用途に使用できます。
オプション
■ PA-1 ：空送り装置

FBX series is a cylinder bed, 2〜6 needle double chainstitch machine with needle feed.
It is designed for sewing waistbands of medium heavy to heavy material such as jeans and working pants.
As needle feed and lower feed are linked, both feeding amounts can be adjusted at the same time by push-button operation. An additional rear puller is available as option. The needle feed solves any problems, such as twisting, puckering and slipping of the material.
FBX series has a wide range of applications as it can sew material up to a width of 70 mm, especially tubular goods such as waistbands, elastic attaching, sewing shirts fronts and more.
Option
■ PA-1 ：Auto Skip-Stitch device

FBX series cama cilindrica con transportador de agujas 2-6 agujas, puntada de doble cadeneta para coser cinturas de material de mediano a pesado, como jeans, o pantalones de trabajo. El puler es opcional.
El transportador de agujas y el alimentador inferior, estan conectados, de esta manera la cantidad de alimentacion, se puede ajustar al mismo tiempo, presionando el boton. El transportador de agujas resuelve problemas tales como torcida de material deslizamiento de material pesado, cuando se esta cosiendo, etc.
FBX series tiene un capacidad para materiales anchos (max:. 70 mm) tubulares, pegar elastico, etc.
■ PA-1 ：Dispositivo Para-Pontadas

As Maquinas da Serie FBX tem a base cilindrica, com alimentacao de agulha, 2-6 agulhas, cadeira de pontos dupla, para a costura de faixas de cintura de materiais semi pesados para pesados, tais como jeans e calcas de trabalho.
O puxador esta ainda disponivel por opcao. O alimentador da agulha e alimentador inferior estao acoplados. Assim, ambas as quantidades de alimentacao podem ser ajustadas ao mesmo tempo por tecla.O alimentador de agulha resolve quaisquer problemas, tais como torcao, acumulo e deslizamento durante a costura de materiais pesados, etc.
A serie FBX tem uma vasta aplicacao para costurar a largura de materiais de no maximo 70mm, tais como produtos tubulares exceto faixas de cintura, afixacao de elastico, costura de pecas frontais, etc.
Option
■ PA-1 ：Dispositivo Falha-Ponto

FBX系列为筒式设计针送布从2~6针双链式的缝纫机,广泛应用于缝制从中厚料到厚重料的牛仔、工作服等的腰部或裤头,
还可广泛应用于需上松紧带的地方,也可用于上门襟等等,针位宽度最大70mm,加装各种装置用途更广.
该系列机型因采用针送布机构和下送布机构的连动设计,所以通过按钮式调整缝迹长度可同步调整针和送布牙的送布量,
这样就完全解决产品的变形、错位、打摺或鱼尾纹等等现象,达到产品平整的效果; 该机型弯针为纵向摆动,穿线更简单容易;
备有后拖轮装置可选购.

附属装置(选购件)
■ PA-1 :空送布装置

FBX-1106P

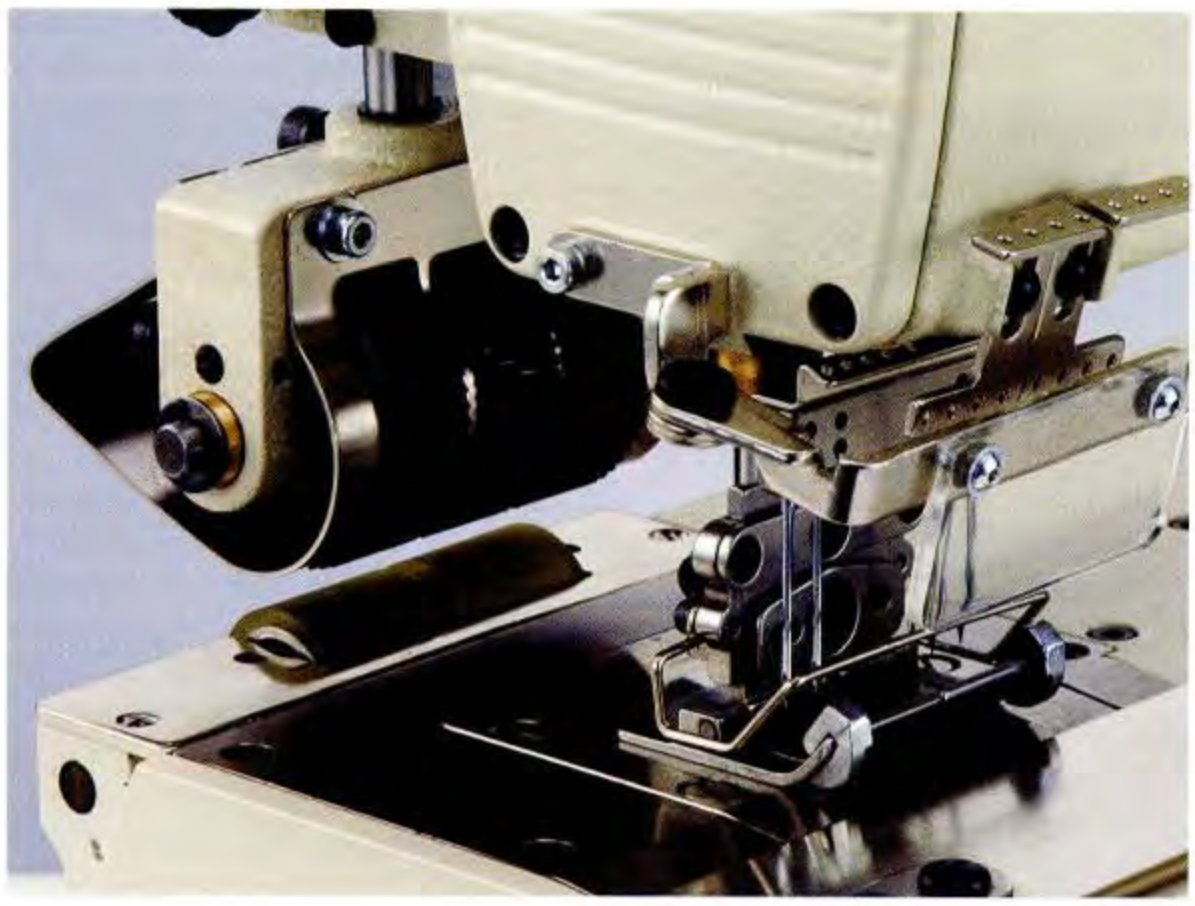
6本針　シリンダーベッド針送りミシン。最大針幅70mm。

6 needle, cylinder bed needle feed machine with wide range of available gauge sizes.Needle space up to 70mm.

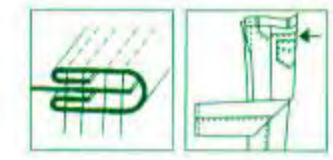
Maquina de cama cylindrica 6 agujas doble cadeneta con alimentador de agujas para varias aplicaciones, con espacio de 70mm.

Maquina cilindrica 6 agulhas com alimentador de agulhas para varias aplicacoes com espacamento de ate 70mm.

6针、筒式针送缝服 最大針幅宽度70mm。



FBX-1104PR



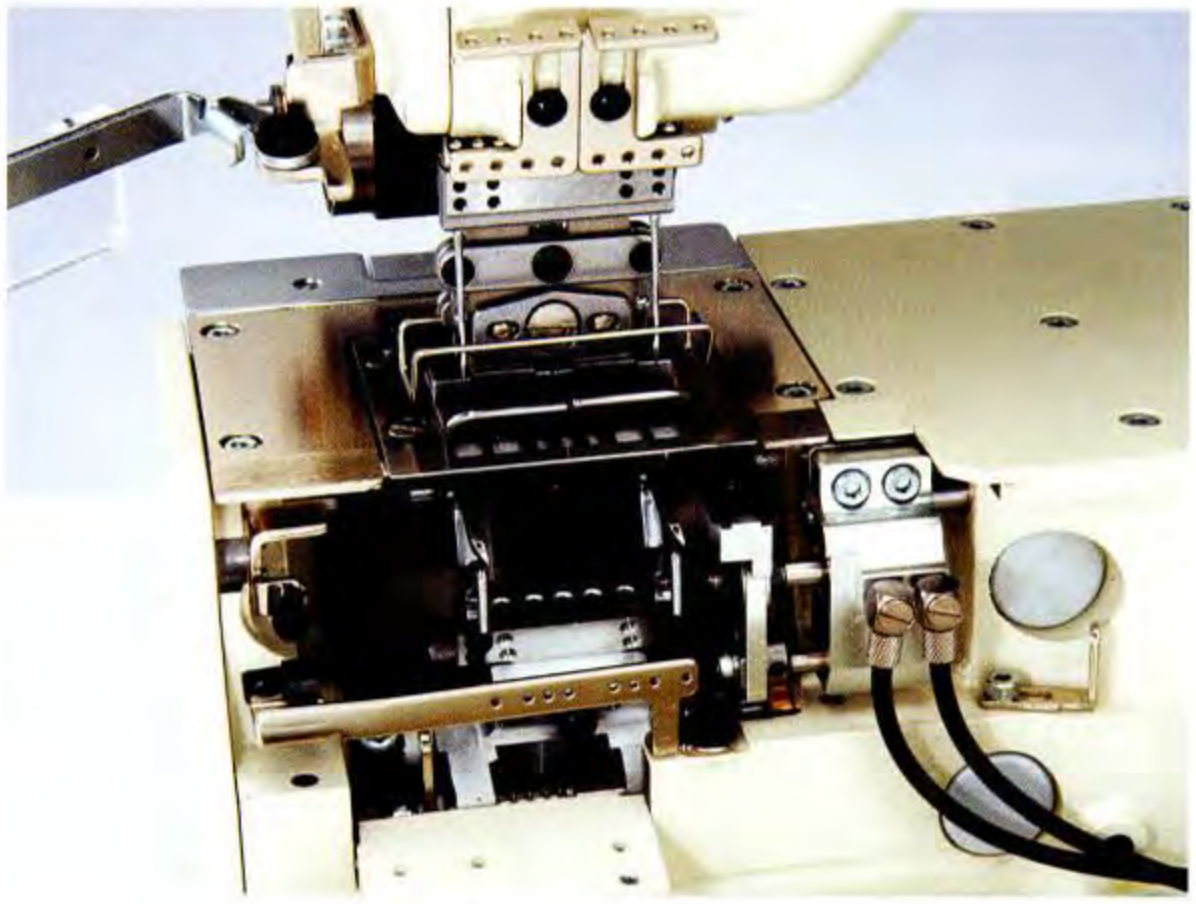
4本針、針送り腰帯付けミシン。

4 needle, needle feed machine for wastbanding

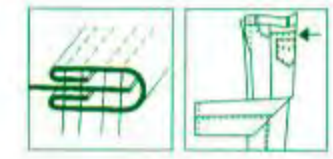
4 agujas, maquina de alimentador de agujas (cinturera)

Maquina de 4 agulhas com alimentador de agulhas para prender cinturas

4个针、针送腰带缝纫机(弯曲缝)



FBX-1102PA-1



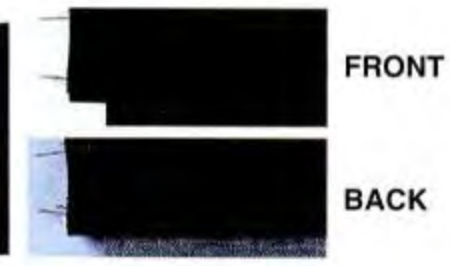
2本針 シリンダーベッド針送りミシン。目飛ばし機構付き。

4 needle, cylinder bed needle feed machine with manual skip stitch device.

Maquina de cama cylindrica 2 agujas doble cadeneta con alimentador de agujas para brincar puntada.

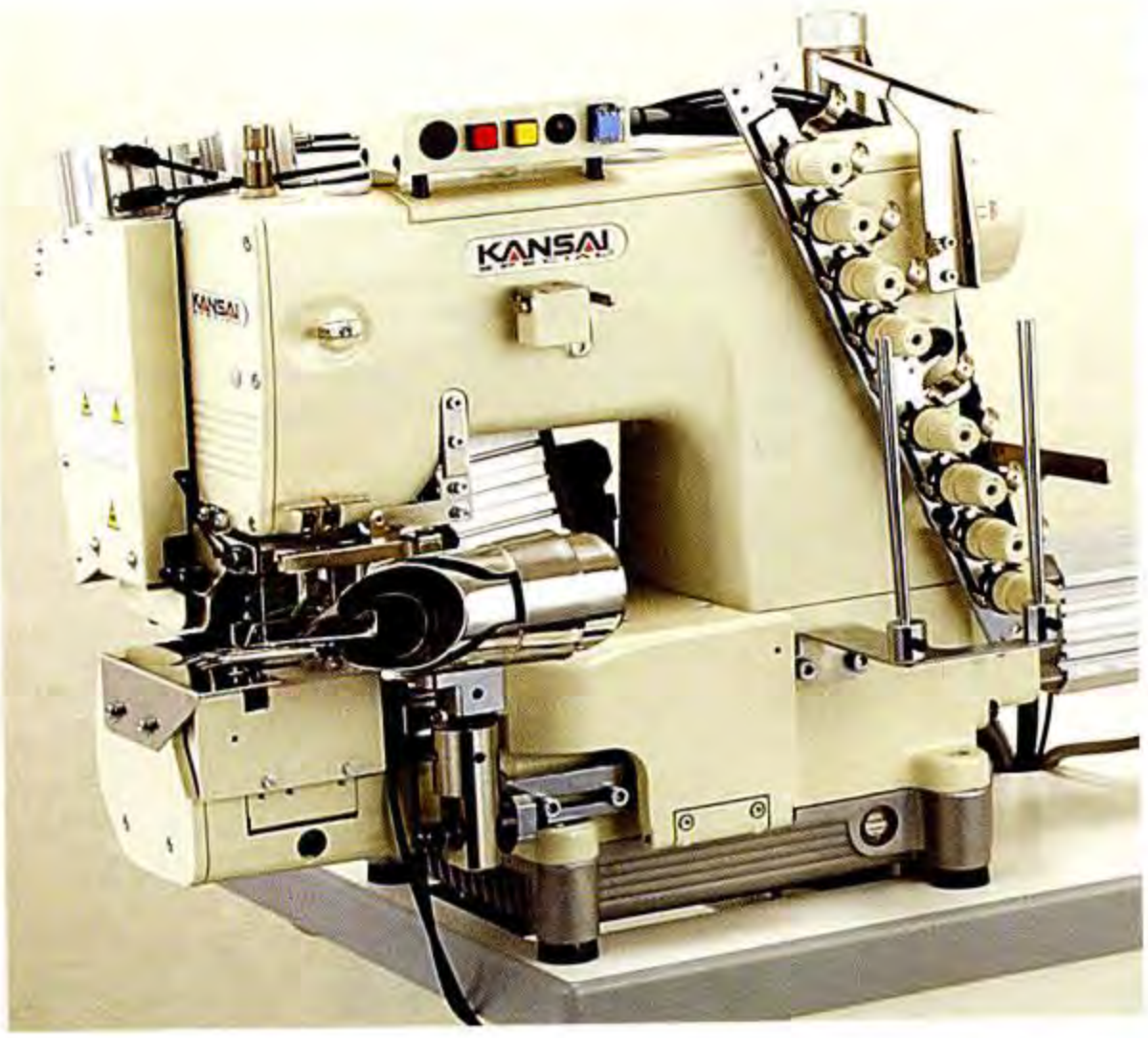
Maquina cilindrica 4 agulhas com alimentador de agulhas manual e dispositivo para ponto falho.

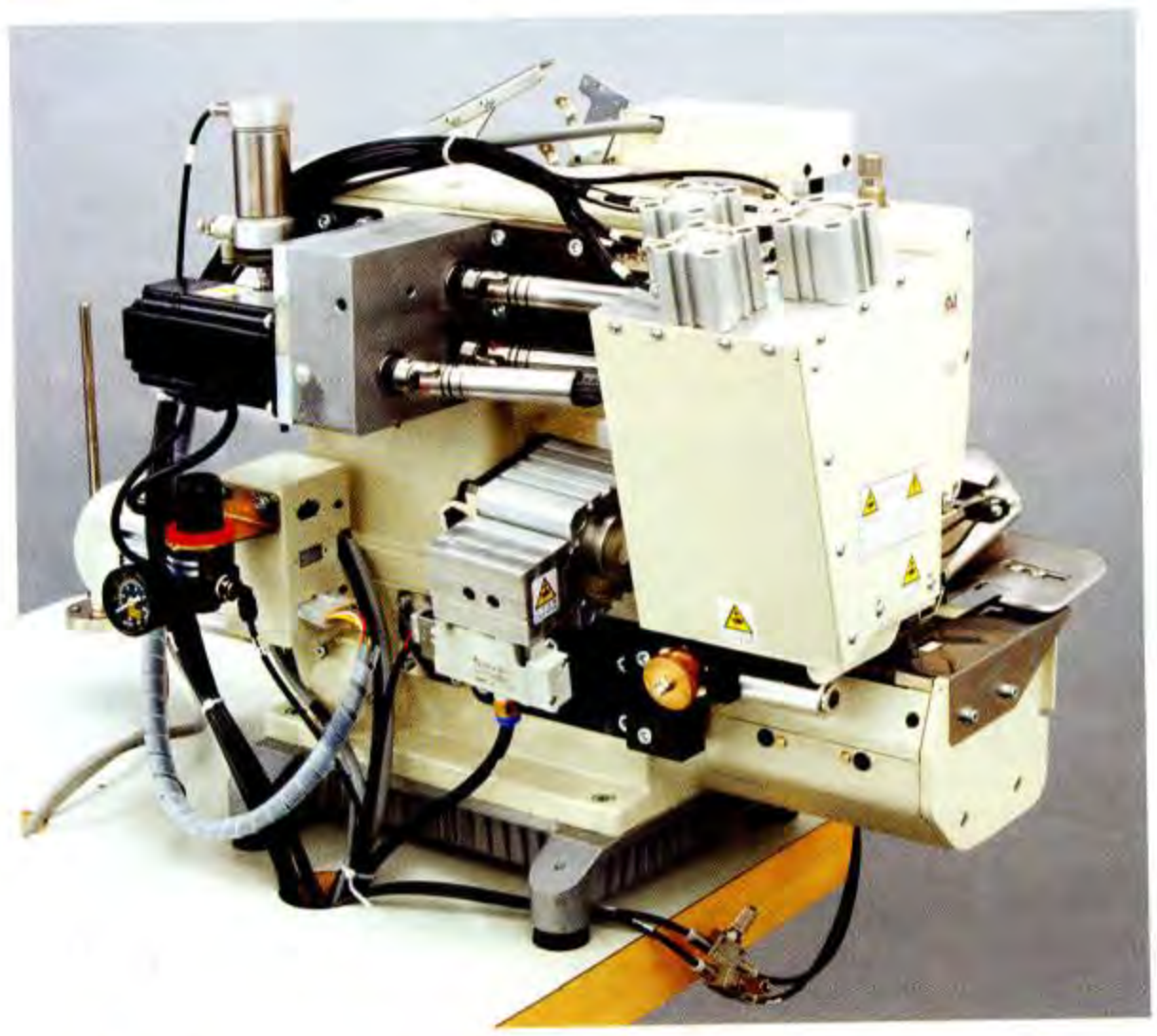
2 个针 筒式设计针送缝纫机。孔放飞机构附着。

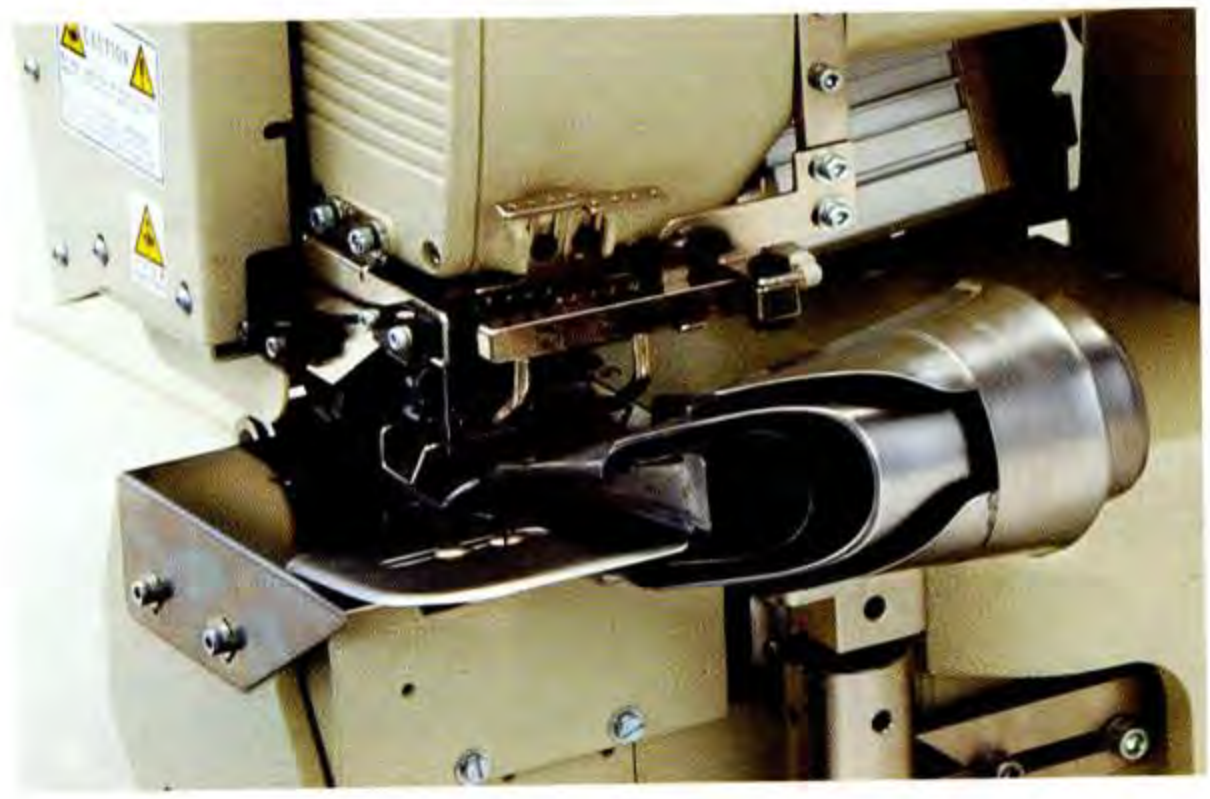


FRONT

BACK







FBX-1102PA-2WAC

FBX PA-2WACはシリンダー型針送り2(4)本針ジーンズ帯付け二重環縫いミシンです。 ダブルプーラー・目飛ばし装置・自動カッターを搭載し、均一できれいな仕上がりを得られます。 パルスモーターで送り機構を同期させているので、縫い始めや縫い終わりを任意の間隔で自動的に裁断・目飛ばしさせることが可能です。電気制御式ですので、全ての機能をパネル上で容易にプログラムできます。
■PA-2:スプレッダー可動式目飛ばし装置 / AC:自動カッター

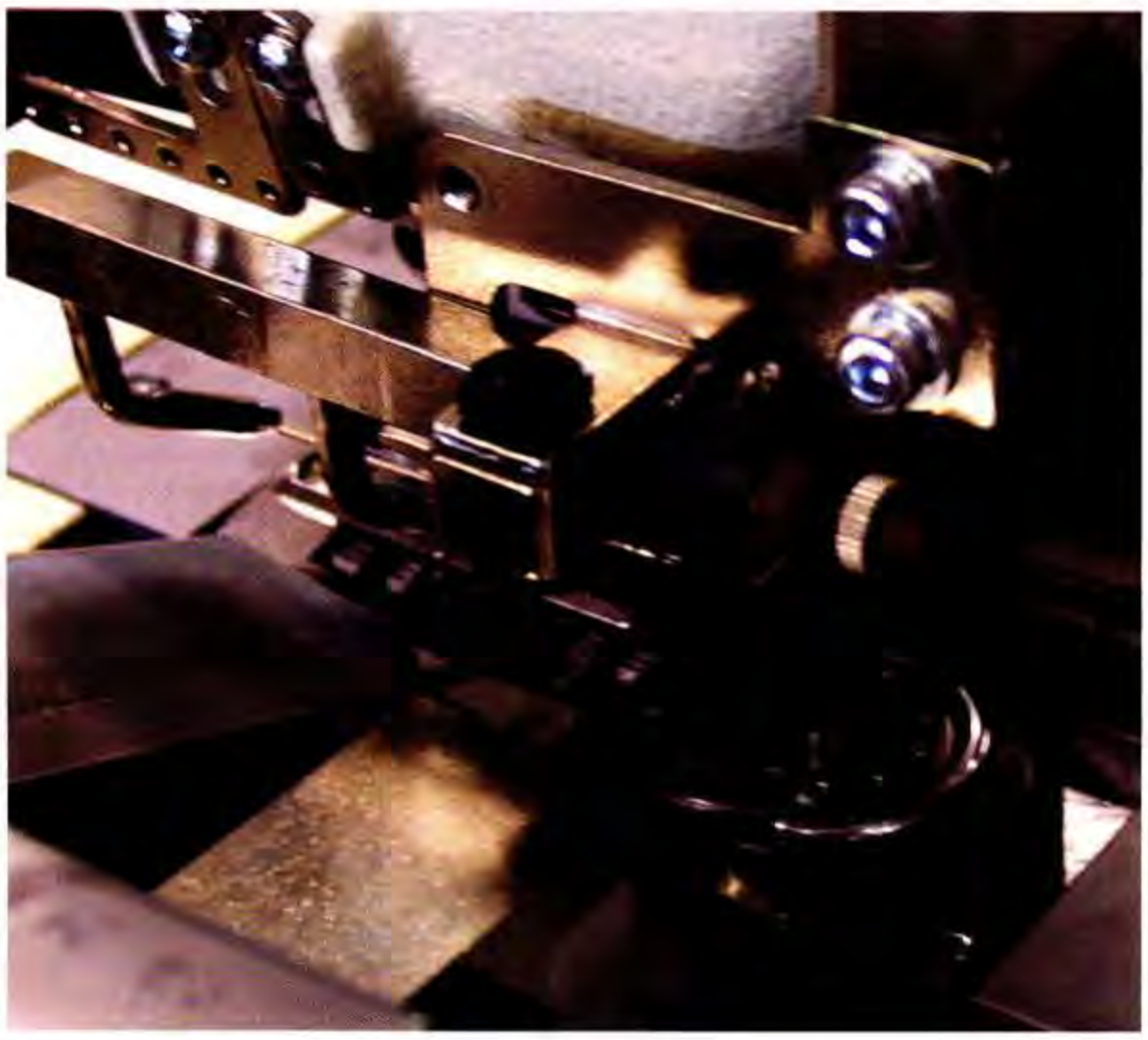
FBX PA-2WAC is a cylinder bed, 2(4) needle double chain stitch machine with needle feed for attaching waistbands to jeans. Double puller, skip stitch device and automatic cutter result in a uniform quality finish. Pulse motor synchronizes feed parts, so automatically waistband (and chain off) can be cut and skip stitches are made both in the beginning and in the end during sewing according to the required measurement.

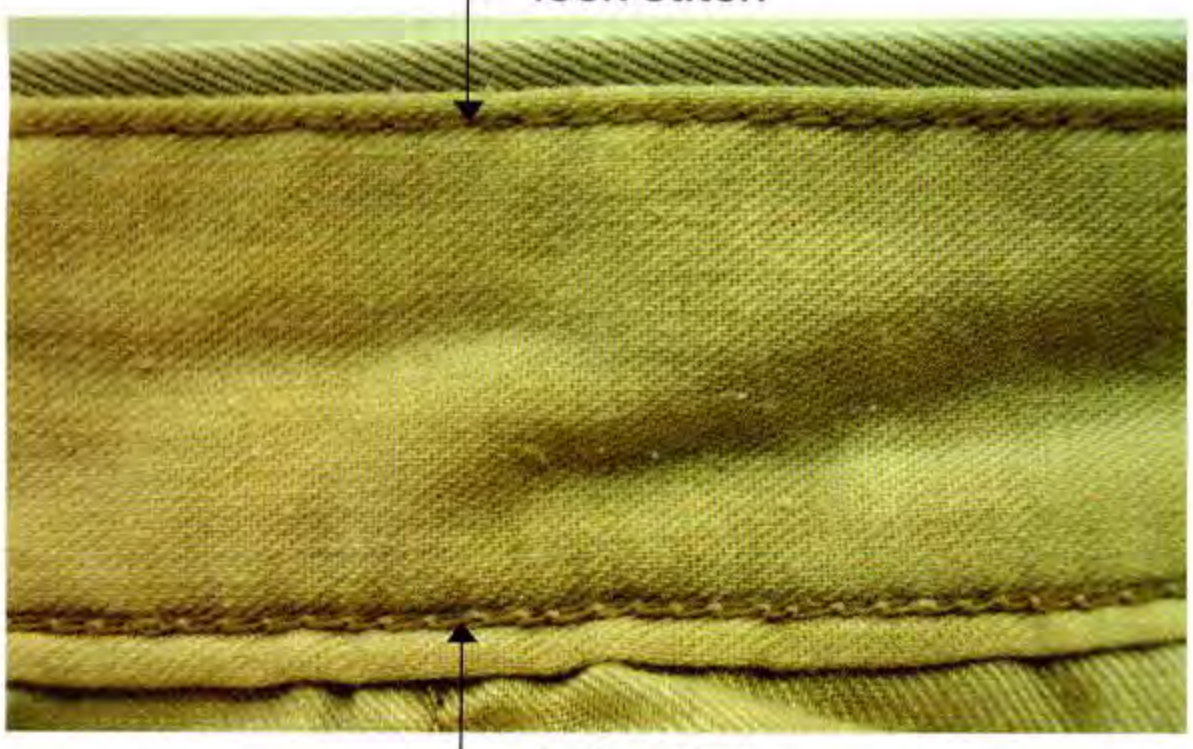
All functions are electrically controlled and easily programmed by control panel.
■PA-2:Spreader driven skip stitch device / AC:Automatic cutter

FBX PA-2WAC maquina de cama cylindrica 2(4) agujas doble cadeneta con alimentador de agujas para pegar cinturas a "Jeans". Doble arrastrador, aparato para brincar puntada, y cortador automatico para dar un terminado uniforme de alta calidad. Motor de pulse para cyncronizar partes de alimentacion, de esta manera automaticamente la cintura y cadeneta se pueden cortar y brincar puntadas, se puede hacer al principio o al final de acuerdo a las medidas requeridas.
Todas las funciones son controladas electronicamente, y facil de programar en el tablero electronico.
■ PA-2:aparato impulzador, para brinco de puntada./ AC:Cortador automatico

FBX PA-2WAC e uma maquina cilindrica, 2(4)agulhas e ponto duplo com alimentacao da agulha para unir o cos ao jeans. Extrator duplo, mecanismo de ponto falho e cortador automatico que resultam uma qualidade final uniforme. A cadencia do motor sincroniza as pecas da alimentacao, automaticamente o cos (e sem cadeia) pode cortar e falhar os pontos que sao feitos durante a costura do comeco e no fim de acordo com a medida requerida. Todas as funcoes sao controladas eletricamente e facilmente programadas atraves do painel.
■PA-2: Mecanismo difusor de ponto falho / AC: Cortador automatico

FBX PA-2WAC是筒型送针2(4)本針牛仔上裤腰二重環縫缝纫机、带上下拖轮直驱式馬達装置、褲腰成型後在任意自定尺寸処帯無人、操作自動切割装置褲腰的腰頭部可以任意跳糸設定装置(起到縮段工時、不用再次拆糸作用)
所有功能通过电子操作箱操作起来特別方便
■PA-2WAC
褲腰成型後在任意自定尺寸処帯無人
操作自動切割装置、褲腰的腰頭部可以任意跳糸設定装置
(起到縮段工時、不用再次拆糸作用)





FBX -1102PA2-AC/LS
(Lock stitch & Chain stitch)

2本針、針送りシリンダーベッド、ジーンズ等、自動帯び付けミシン
この自動機はFBX-1102PA-2ACのスペシャルクラスで外側の針が大きなボビンを使用した本縫い、内側の針が通常の二重環縫いとなっています。
本縫いと環縫いのコンビネーションにより、このミシンはパッカリングの問題を解消しきれいな仕上がりを実現します。
継続的な帯び付け工程のためにこの自動機は帯の縫い始めと縫い終わりを自動的にカットして更にお好みの位置で目を飛ばす自動目飛ばし装置を装備しています。
プーラーシステムと針送りは非常に生産性が高く、信頼度の高いミシンとしています。

2 needle, cylinder bed needle feed, automatic waistband machine for jeans and similar goods. This automatic unit is a special class of our FBX-1102PA-2AC as the outer needle performs a lock stitch - with a rotary hook & large bobbin - whereas the inner needle performs the usual chain stitch.
Due to this combination(lock stitch & chain stitch) system, this machine eliminates any problems such as puckering and then makes neat finish.
This unit for the continuous waistband automatically cuts the two ends of the waistband and has auto-skip stitch in order to leave the ends unstitched.
The puller system and needle feed make this machine more productive & reliable.

Maquima cilindrica automatica para cinturas, con alimentador de agujas, de dos agujas para jeans o similares.
Esta unidad automatica es una clase especial de nuestra FBX-1102PA-2AC, mientras las agujas exteriores hacen costura recta, con un gancho rotativo y una bobina grande, las agujas interiores hacen costura de cadeneta.
Este sistema de combinacion de costura recta y de cadeneta, elimina problemas tales como arrugar el material, dando un terminado nitido. Cuando se cose continuamente cintura, esta unidad auto-matica corta los dos extremos, tiene funcion automatica para salto de puntada, de tal forma que los dos extremos quedan sin coser.
El sistema del arrastrador y alimentador de agujas, hace que esta maquina sea mas productiva y confiable.

Maquina de 2 agulhas cilindrica com alimentador de agulhas, automatica para cos de jeans e similares.
Esta automatica unica e uma classe especial da nossa FBX-1102PA-2AC como a agulha exterior executa o ponto travado - com um gancho giratorio e uma bobina grande - visto que a agulha interna executa a usual cadeia de pontos.
Devido a esse sistema de combinacao (ponto travado e cadeia de pontos), essa maquina elimina pequenos problemas e faz o revestimento final puro.
Esta e a unica maquina automatica de cos cont_nua que corta os dois finais do cos e tem ponto falho automatico afim de deixar as extremidades descosturadas.
O sistema extrator e o alimentador de agulha fazem a maquina ser de confianca e mais produtiva.

2针、针送筒式床，牛仔裤等、自動縫褲腰専用機
这自动机在FBX-1102PA2-AC的特别(班)级外侧的针使用了大的筒管的正式缝制、内侧的针成为通常的双重环缝
正式缝制和环缝的组合、这个缝纫机解除皱褶的问题实现漂亮和完成
因为有后拉系统和送针系统提高了生产率所以是信赖度非常高的缝纫机

褲腰成型後在任意自定尺寸処帯無人、操作自動切割装置
褲腰的腰頭部可以任意跳糸設定装置(起到縮段工時、不用再次拆糸作用)

MODEL	No. of Needle	No. of Thread	Needle Type Organ (#)	Needle Type Schmetz (Nm)	Gauge (Inch)	No. of Stitch (Stitch/Inch)	Diff. Feed Ratio	Upper Feed Amount (mm) ↔	Upper Feed Amount (mm) ↕	Presser Foot Lift (mm)	NeedleBar Stroke (mm)	Max. Speed (rpm)
DFB1404P	4	8	UO×113 14	UY×113 90	3/4,1,1-1/8,1-1/4, 1-1/2,1/4-1/2-1/4	7~17				10	34	4500
DFB1404PMD	4	8	UO×113 14	UY×113 90	3/4,1,1-1/8,1-1/4, 1-1/2,1/4-1/2-1/4	8~14				10	34	4500
DFB1404PSF	4	8	UO×113 14	UY×113 90	3/16-3/4-3/16, 1/4-3/4-1/4, 3/16-1-3/16,1/4-1-1/4	7~17				10	31	4500
DFB1404WB	4	8	UO×113 18	UY×113 110	3/16-3/4-3/16, 1/4-3/4-1/4, 3/16-1-3/16,1/4-1-1/4	7~17				10	34	4500
DFB1406P	6	12	UO×113 14	UY×113 90	3/16,1/4,1/3,3/8	7~17				10	34	4500
DFB1406PL	6	12	UO×113 14	UY×113 90	1/4,1/3,3/8	7~17				10	34	4500
DFB1406PMD	6	12	UO×113 14	UY×113 90	1/4	7~17				10	34	4500
DFB1408P	8	16	UO×113 14	UY×113 90	1/4	7~17				10	34	4000
DFB1408PMD	8	16	UO×113 14	UY×113 90	1/4	7~17				10	34	4000
DFB1408PL	8	16	UO×113 14	UY×113 90	1/4	7~17				10	34	4000
DFB1409P	9	18	UO×113 14	UY×113 90	1/4	7~17				10	34	4000
DFB1412P	12	24	UO×113 14	UY×113 90	1/8,3/16,1/4 5mm	7~17				10	34	4000
DFB1412PL	12	24	UO×113 14	UY×113 90	1/4,3/16	7~17				10	34	4000
DFB1412PMD	12	24	UO×113 14	UY×113 90	3/16,1/4	7~17				10	34	4000
DFB1412PS	12	24	DV×57 14	DV×57 90	3/16,1/4	7~17				10	34	4000
DFB1403PSM-H	3	9	DV×57 18		1/4	7~17				6	34	2000
DFB1412PSM	12	36	DV×57 14	DV×57 90	3/16,1/4	7~17				6	34	2000
DFB1412PQ	12	36	UO×113 14	UY×113 90	3/16,1/4	7~17				10	34	2500
DFB1412PQSM	12	48	DV×57 14	DV×57 90	3/16,1/4	7~17				6	34	2000
DFB1412PSSM	12	36	DV×57 14	DV×57 90	3/16,1/4	7~17				6	34	2000
DFB1412PTV	12	24	DV×57 12		3/16,1/4	7~17				10	34	3500
DFB1406PTV-I	6	12	DV×57 12		3/8-11,1/2-14	7~17				10	34	3500
DFB1412PTV-I	12	24	DV×57 12		3/16-6,1/4-8	7~17				10	34	3500
DFB1402MR	2	4	UO×113 14	UY×113 90	1/4	7~17				10	31	4000
DFB1412MR	12	24	UO×113 14	UY×113 90	1/4	7~17				10	31	3000
DFB1012P	12	12	DV×57LE 21 (DV-K25 21)		3/16,1/4	7~17				10	34	4000
DFB1012PS	12	12	DV×57LE 21 (DV-K25 21)		3/16,1/4	7~17				10	34	4000
DFB1012PSM	12	24	DV×57LE 21 (DV-K25 21)		3/16,1/4	7~17				6	34	2000
DFB1412PET	12	24	DV×57 14	DV×57 90	3/16,1/4	7~17				10	34	4000
DFB1412SET	12	24	DV×57 14	DV×57 90	3/16,1/4	7~17				10	34	4000
DFB1412PSMET	12	36	DV×57 14	DV×57 90	3/16,1/4	7~17				6	34	2000
DFB1412PSSMET	12	36	DV×57 14	DV×57 90	3/16,1/4	7~17				6	34	2000
BX1425P	25	50	UO×113 14	UY×113 90	1/4	8~16				10	34	2500
BX1425PS	25	50	DV×57 14	DV×57 90	1/4	7~17				10	34	2500
BX1425PSM	25	75	DV×57 14	DV×57 90	1/4	7~17				6	34	2000
BX1425PSSM	25	75	DV×57 14	DV×57 90	1/4	7~17				6	34	2000
BX1433P	33	66	UO×113 14	UY×113 90	3/16	7~17				10	34	2500
BX1433PS	33	66	DV×57 14	DV×57 90	3/16	7~17				10	34	2500
BX1433PSM	33	99	DV×57 14	DV×57 90	3/16	7~17				6	34	2000
BX1433PSSM	33	99	DV×57 14	DV×57 90	3/16	7~17				6	34	2000
BX1025P	25	25	DV×57LE 21 (DV-K25 21)		1/4	7~17				10	34	2500

MODEL	No. of Needle	No. of Thread	Needle Type: Organ (#)	Needle Type: Schmetz (Nm)	Gauge (Inch)	No. of Stitch (Stitch/Inch)	Diff. Feed Ratio	Upper Feed Amount (mm)	Presser Foot Lift (mm)	NeedleBar Stroke (mm)	Max. Speed (rpm)
BX1025PS	25	25	DV×57LE 21 (DV-K25 21)		1/4	7~17			10	34	2500
BX1025PSM	25	50	DV×57LE 21 (DV-K25 21)		1/4	7~17			6	34	2000
BX1033P	33	33	DV×57LE 21 (DV-K25 21)		3/16	7~17			10	34	2500
BX1033PS	33	33	DV×57LE 21 (DV-K25 21)		3/16	8~16			10	34	2500
BX1033PSM	33	33	DV×57LE 21 (DV-K25 21)		3/16	8~16			6	34	2000
BX1425PET	25	50	DV×57 14	DV×57 90	1/4	7~17			10	34	2500
BX1425PSET	25	50	DV×57 14	DV×57 90	1/4	7~17			10	34	2500
BX1425PSMET	25	75	DV×57 14	DV×57 90	1/4	7~17			6	34	2000
BX1425PSSMET	25	75	DV×57 14	DV×57 90	1/4	7~17			6	34	2000
BX1433PET	33	66	DV×57 14	DV×57 90	3/16	7~17			10	34	2500
BX1433PSET	33	66	DV×57 14	DV×57 90	3/16	7~17			10	34	2500
BX1433PSMET	33	99	DV×57 14	DV×57 90	3/16	7~17			6	34	2000
BX1433PSSMET	33	99	DV×57 14	DV×57 90	3/16	7~17			6	34	2000

FXSERIES　TECHNICAL DATA　仕様明細

MODEL	No. of Needle	No. of Thread	Needle Type: Organ (#)	Needle Type: Schmetz (Nm)	Gauge (Inch)	No. of Stitch (Stitch/Inch)	Diff. Feed Ratio	Upper Feed Amount (mm)	Presser Foot Lift (mm)	NeedleBar Stroke (mm)	Max. Speed (rpm)
FX4404P	4	8	DV×57 14	DV×57 90	1,3/4,1-1/8, 1-1/4,1-1/2	7~17			8	34.5	4500
FX4404PUTC	4	8	DV×57 14	DV×57 90	1,3/4,1-1/8, 1-1/4,1-1/2	7~17			8	34.5	4500
FX4404PSF	4	8	DV×57 14	DV×57 90	1/4-3/4-1/4 1/4-1-1/4	7~17			8	34.5	4500
FX4406P	6	12	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4500
FX4408P	8	16	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4500
FX4406PUTC	6	12	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4500
FX4411P	4	8	DV×57 14	DV×57 90	1/8-1/8-1/8-1/8-1/4 -1/8-1/8-1/8-1/8	7~17			8	34.5	4500
FX4411PSF	4	8	DV×57 14	DV×57 90	1/8-1/8-1/8-1/8-1/4 -1/8-1/8-1/8-1/8	7~17			8	34.5	4500
FX4406PK	6	12	DV×57 14	DV×57 90	1/8	7~17			8	34.5	4500
FX4413P	12	24	DV×57 14	DV×57 90	1/8-1/8-1/8-1/8-1/4 -1/8-1/8-1/8-1/8	7~17			8	34.5	4000
FX4413PK	6	12	DV×57 14	DV×57 90	1/8	7~17			8	34.5	4500
FX4421P	12	24	DV×57 14	DV×57 90	1/8	7~17			8	34.5	4000
FX4412P	12	24	DV×57 14	DV×57 90	1/4,5mm,3/16	7~17			8	34.5	4000
FX4412PUTC	12	24	DV×57 14	DV×57 90	1/4,5mm,3/16	7~17			8	34.5	4000
FX4409P	9	18	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4000
FX4409PUTC	9	18	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4000
FX4404PMD	4	8	DV×57 14	DV×57 90	1,3/4,1-1/8, 1-1/4,1-1/2	7~17			8	34.5	4500
FX4406PMD	6	12	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4500
FX4409PMD	9	18	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4000
FX4412PMD	12	24	DV×57 14	DV×57 90	3/16,1/4,5mm	7~17			8	34.5	4000
FX4404PUTC	4	8	DV×57 14	DV×57 90	1,3/4,1-1/8, 1-1/4	7~17			8	34.5	4500
FX4406PL	6	12	DV×57 14	DV×57 90	1/4,1/3	7~17			8	34.5	4500
FX4408PL	8	16	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4000
FX4412PL	12	24	DV×57 14	DV×57 90	1/4	7~17			8	34.5	4000

DX SERIES | TECHNICAL DATA 仕様明細

MODEL	No. of Needle	No. of Thread	Needle Type Organ (#)	Needle Type Schmetz (Nm)	Gauge (Inch)	No. of Stitch (Stitch/Inch)	Diff. Feed Ratio	Upper Feed Amount (mm)	Presser Foot Lift (mm)	NeedleBar Stroke (mm)	Max. Speed (rpm)
DX9902-3U	5	9	TVX5 12	TVX5 80	4.8-10-10-10(mm) 5-13-13-13	7~16			8	33	4500
DX9902-3U-UTC-A	5	9	TVX5 12	TVX5 80	4.8-10-10-10(mm) 5-13-13-13	7~16			8	33	4500
DX9902-3ULK	5	9	TVX5 12	TVX5 80	4.8-10-10-10(mm) 5-13-13-13	7~16			8	33	4000
DX9902-3ULK-UTC-A	5	9	TVX5 12	TVX5 80	4.8-10-10-10(mm) 5-13-13-13	7~16			8	33	4000
DX9900-4U	4	8	TVX5 14	TVX5 90	6.4-6.4-6.4(mm) 8.5-8.5-8.5 9.5-9.5-9.5	7~16			8	33	4500
DX9900-4U-UTC-A	4	8	TVX5 14	TVX5 90	6.4-6.4-6.4(mm) 8.5-8.5-8.5 9.5-9.5-9.5	7~16			8	33	4500
DX9904U	4	6	TVX5 14	TVX5 90	5-9-5(mm) 5-19-5(mm)	7~16			8	33	4500
DX9904U-UTC-A	4	6	TVX5 14	TVX5 90	5-9-5(mm) 5-19-5(mm)	7~16			8	33	4500

FBX SERIES | TECHNICAL DATA 仕様明細

MODEL	No. of Needle	No. of Thread	Needle Type Organ (#)	Needle Type Schmetz (Nm)	Gauge (Inch)	No. of Stitch (Stitch/Inch)	Diff. Feed Ratio	Upper Feed Amount (mm)	Presser Foot Lift (mm)	NeedleBar Stroke (mm)	Max. Speed (rpm)
FBX-1102	2	4	DVX57 18~25(21)	DVX57 110~150(130)	1-1/2,1-3/8,1-1/4	4~12 (2.1~6.4mm)			9	32	4500
FBX-1104	4	8	DVX57 18~25(21)	DVX57 110~150(130)	1/4-1-1/4,1	4~12 (2.1~6.4mm)			9	32	4500
FBX-1102P	2	4	DVX57 18~25(21)	DVX57 110~150(130)	1-1/2,1-3/8,1-1/4	4~12 (2.1~6.4mm)			9	32	4000
FBX-1104P	4	8	DVX57 18~25(21)	DVX57 110~150(130)	1/4-1-1/4,1, 1/4-7/8-1/4	4~12 (2.1~6.4mm)			9	32	4000
FBX-1106	12 *(6)	12	DVX57 18~25(21)	DVX57 110~150(130)	1/4	4~12 (2.1~6.4mm)			9	32	3500
FBX-1106P	12 *(6)	12	DVX57 18~25(21)	DVX57 110~150(130)	1/4	4~12 (2.1~6.4mm)			9	32	3000
FBX-1102PA-2WAC	2	4	DVX57 18~25(21)	DVX57 110~150(130)	1-3/8,1-1/2,1-1/4	4~12 (2.1~6.4mm)			9	32	4000
FBX-1104PA-2WAC	4	8	DVX57 18~25(21)	DVX57 110~150(130)	1/4-1-1/4	4~12 (2.1~6.4mm)			9	32	4000
FBX-1102PA2-AC/LS	2	4	DVX57 18~25(21) for chain stich, DPX5 18 for lock stich,		1-1/2, 1-3/8,1-1/4	4~12 (2.1~6.4mm)			9	34	3000

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