

## (Warping)

1.

9

가

(lease)

가

2.

(beam warping) : ,

( ). 가 .

(sectional warping) : 가

. (weaver's beam) .

(ball warping) :

, (warp ball) 가

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### 3. (beam warper)

(direct warping) 가

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, (non-drum)

(direct warper) .

가

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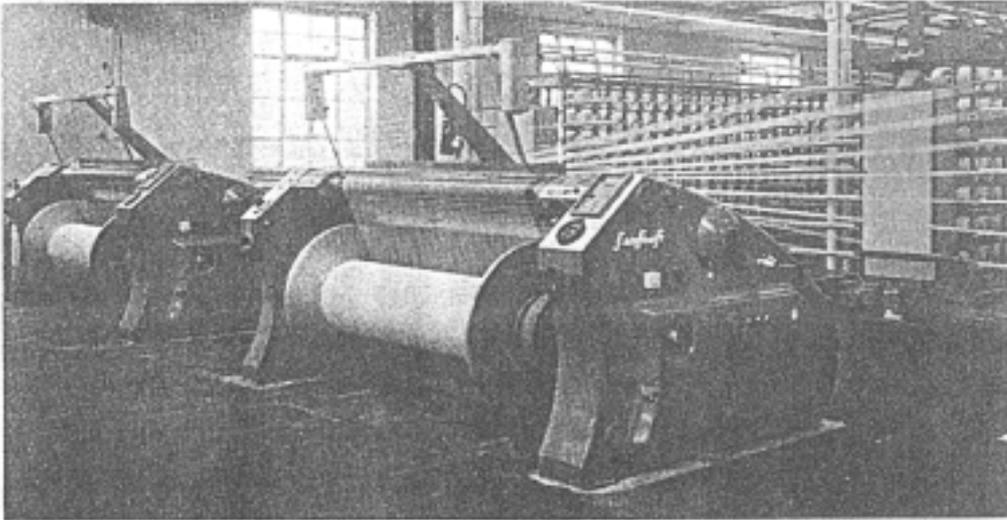
DC 가 .

press roller가

press roller

가 soft winding beam

600~1,000m/min



< 1 >

가.

1) (tension device)

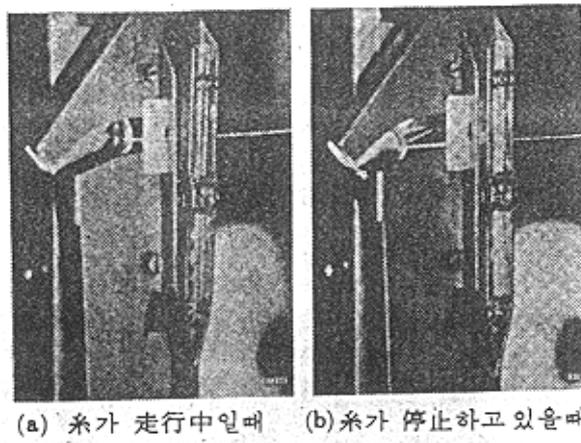
(sheet)

(falling roller system)

(falling rod system)

(rasing roller system)

2~3



< 2> Benninger GCA

2) (automatic stop motion)

가 가

가

가

(automatic thread stop motion)

가

(automatic measuring and stop motion)

가

3) (frictional clutch)

(frictional clutch system)

(fast and loose pully system)

4) (beam evening device)

가

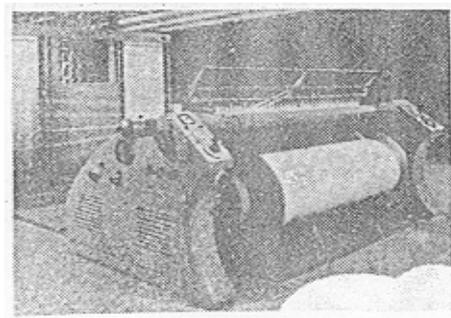
가

項目 \ 機種	馬場(日本) VDW型	河本(日本) T-36型	金丸(日本) D型	Benninger(스위스) ZDA/GCA型	Schlafhorst(서독) MZD/Z25型
駆動方式	non-drum	non-drum	non-drum	non-drum	non-drum
捲取速度(m/min)	700	1,000	150-600	1,000	800
빔주행거리(㎝)	762, 1003	915			814
빔주행거리(㎝)	1378, 1683	1327, 1627	1635	1200, 1400, 1500 1600, 1800, 2000	
크릴 수용數	V, H型 모두 540, 576	1200	612		600
크릴 방식	① V型, H型 ② V型은 모터구동에 의한 일체교체식 semi-magazine크릴 ③ H型은 turn table式 semi-magazine크릴	① 左同 ② V型은 左同 ③ Tensor는 ball式 또는 電磁回轉 tensor	① H型 ② 지프 4 개마다의 turn table式 semi-magazine크릴	① V型	① H型
駆動用모터	7.5kw, VS모터	15kw, VS모터	7.5 또는 5.5kw 可變速모터		
Beam着脱	pneumatic式임의 上, 下 spindle의 設置, press roll의 接圧이 연속자동적으로 작동	左同	pneumatic式		

4. (sectional waper)

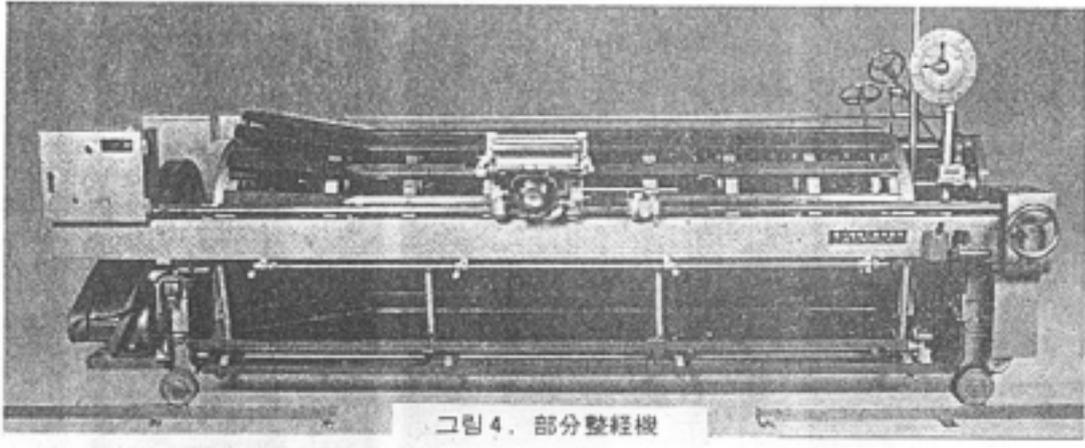
가

(gingham)



< 3 > Schlafhorst

Type MZD.



< 4 >

가.

1) (creel)

100~300

(non-creel)

300~600

가

가 (tensor)

(wood parallel bobbin)

가

가

가

가

2) (drum section machine)

(repeat)

2~3cm

2.2m

가

(elevation device)

(feed)

가

(front leasing reed)

가

8

3) (beaming machine)

( )

1) Schlafhorst , DSB

elevation bar

1 (band)

가

. Schlafhorst

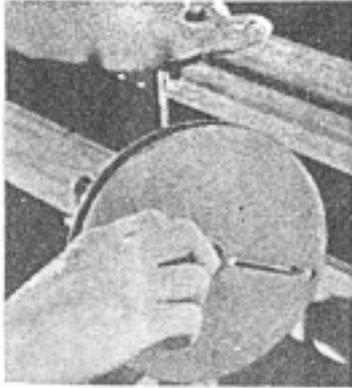
elevation bar

가

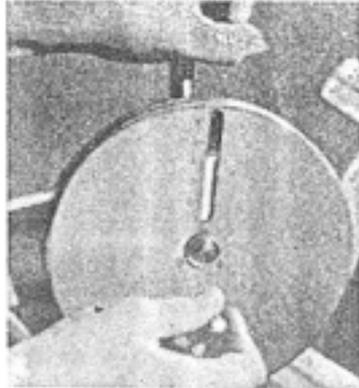
elevation bar

1

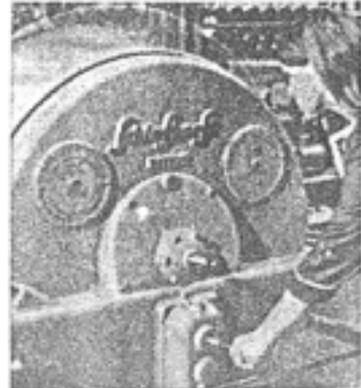
stopper



(a) 1cm 幅의 디스크用 레귤을  
잡는다.



(b) 糸層의 높이를 읽는다.



(c) 計算盤에서 elevation bar 높이를  
읽고 그 높이를 조정한다.

< 5> Schlafhorst elevation bar

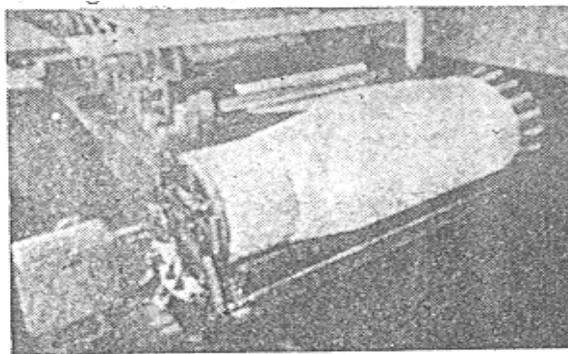
2) Benninger , ZA

ZA

ZAS

ZAL 2 가

elevation bar가 850cm , 425mm



< 6> Benninger ZASE

가 .

Benninger

ZASE

,

beaming head

가

가

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3)

AG-D

KHW-30

가

beaming

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beaming

가

beaming

beaming 가

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