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1.

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(auto doffing)

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가

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; 가

cm

3~10kHz

가 가 ,

가 .

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가 .

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;

가

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가 .

2.

(lap)

,

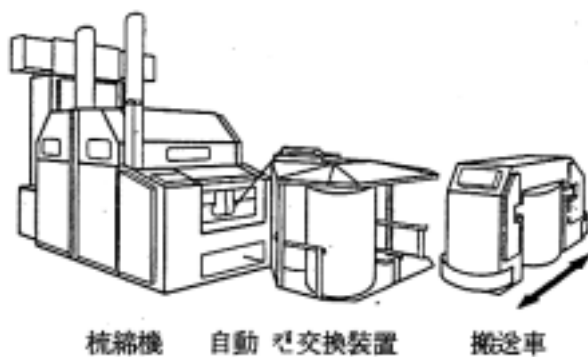
(shooter) .

가 (gripper)

가

Trutzschler

“Canny one”

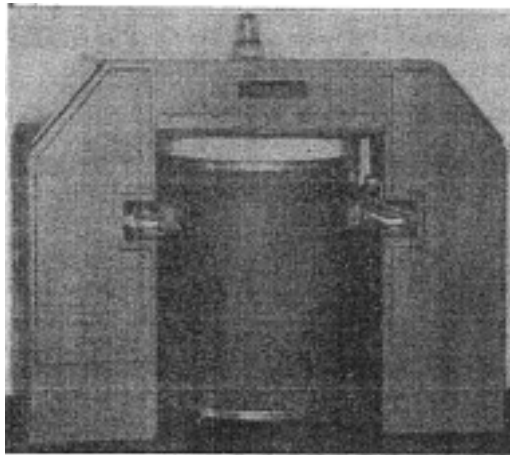


< 1> (Canny one)

가.

가 가

$$1 \quad (\quad) < \quad 2 >$$



< 2> “Canny one”

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가

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4

가

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< 2>

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가

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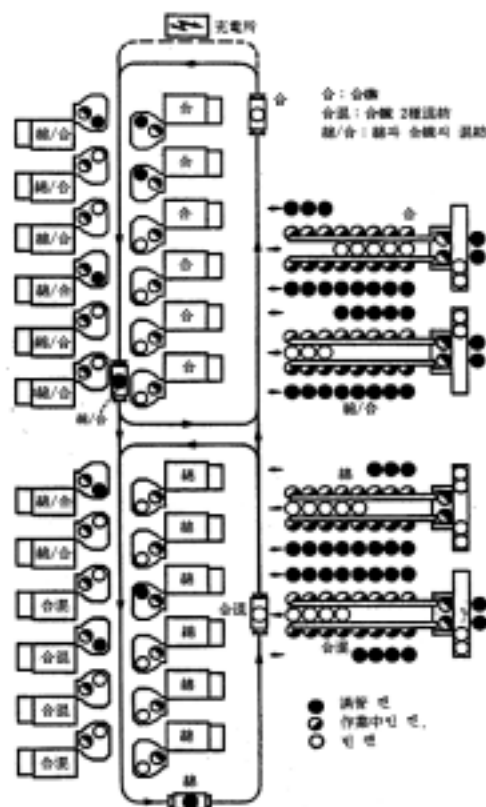
,

,

/ , 100%, 100%, 2 가

4 < 3>

, 2



< 3> Canny one()

3.

가.

(wagon doffer)

4~6

가

(hanger)

(robbing

stripper)

가

(hopper)

가

가

(가)

가

1)

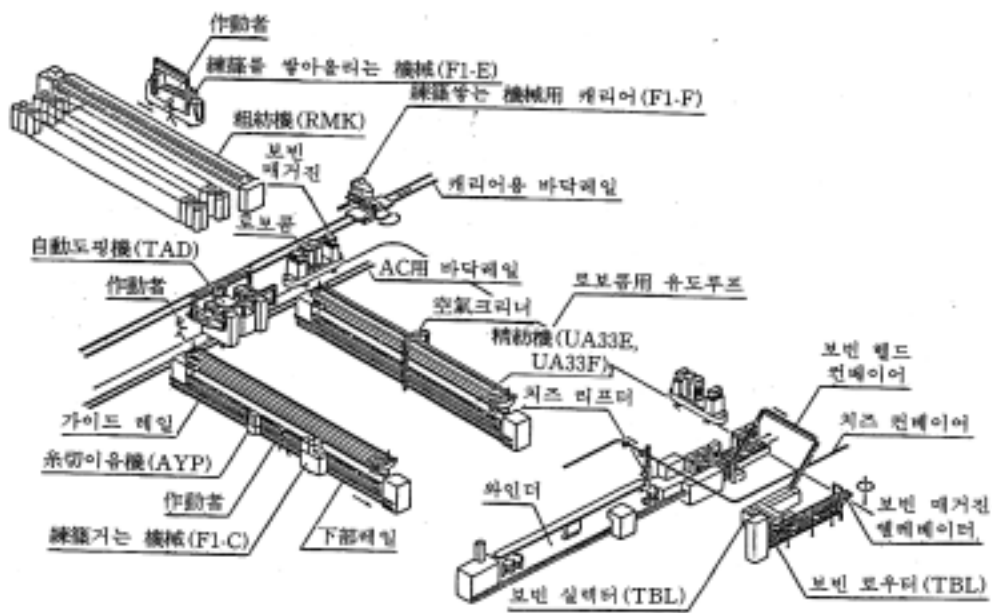
10

가

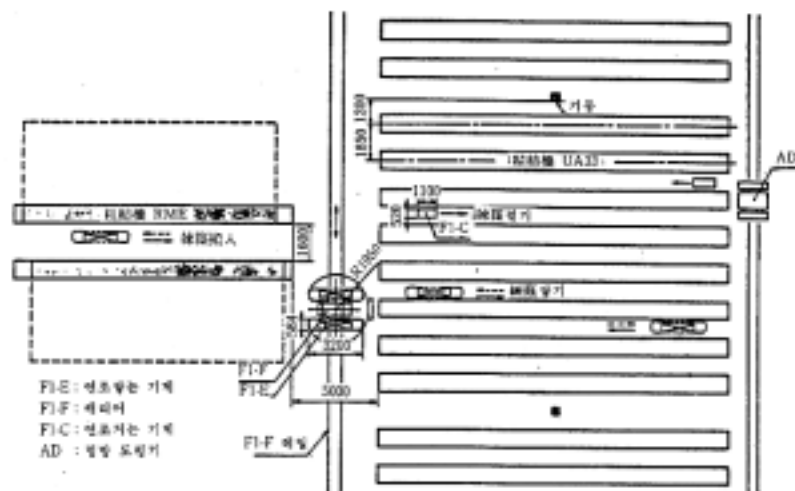
가

. < 4>

< 5> ,



< 4>



< 5>

(
).

(F1-E) <

6>.

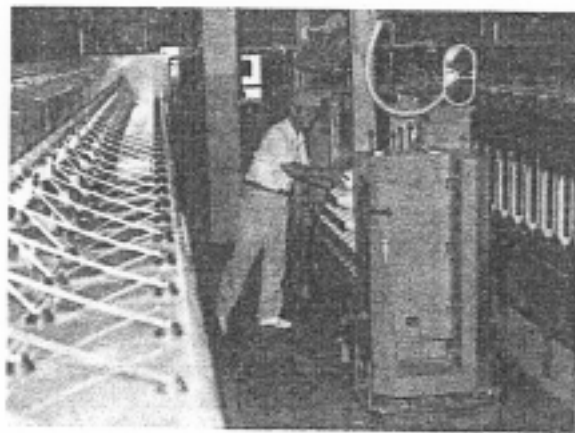
5m/min

. DC24 V, 200AH .

12 8 96 12 10 120 가 .

1

10~20 .



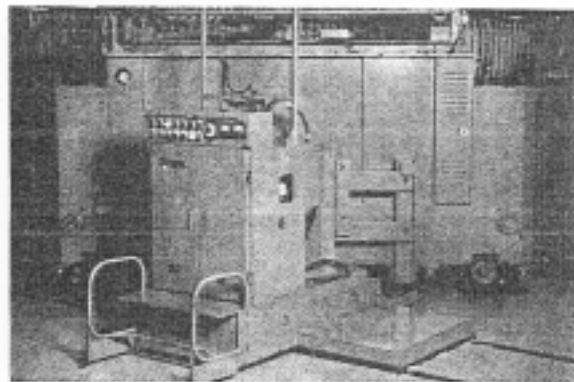
< 6>

(F1-F) < 7>.

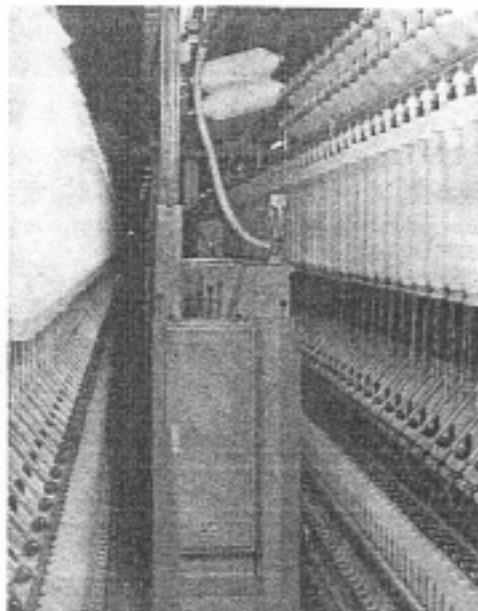
(jack)

,

가 (trolley
wire) , 가
50m/min, 5m/min



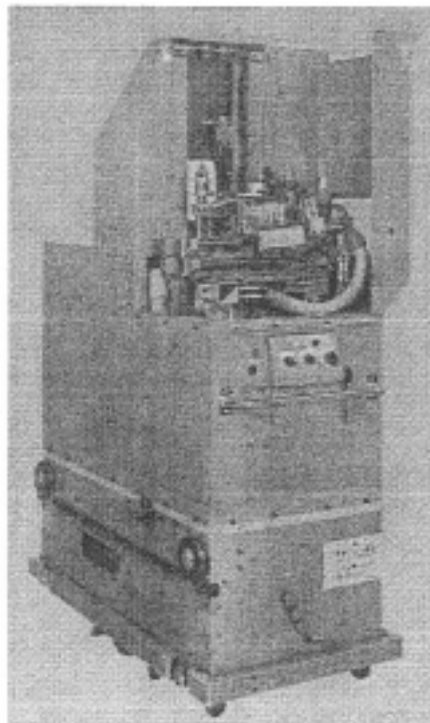
< 7> (F1-F)



< 8> (F1-E)

가
 12 2
 (peg)가
 < 8>.

(F1-C)< 9>



< 9> (F1-C)

AC 200V

. 2
. 2 12 ,
.



< 10>

< 10>.

:

(F1-E)	1
(F1-F)	1
(F1-C)	2

96 / 384 ,

64 /2	(shift)
16 /2	(shift)

40 /

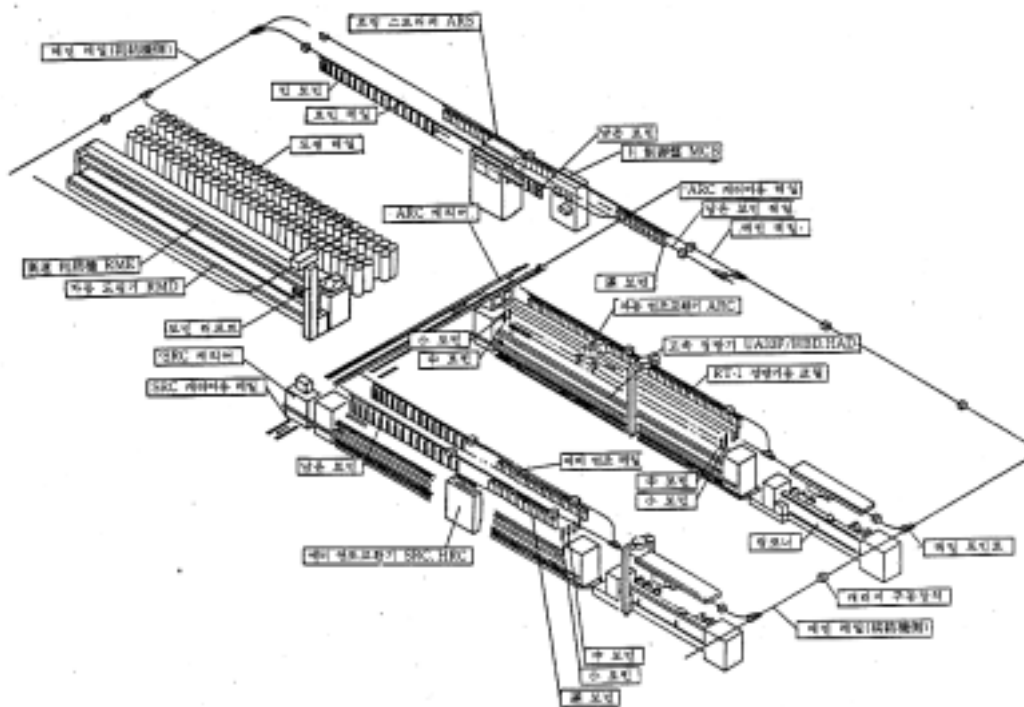
3 /1 (shift)

6,200 가 가 .

2) (RT-1)

RT-1

< 11>



< 11>

RT-1()

RMF

RMD가

$$\left(\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right), \left(\begin{array}{c} \text{ } \\ \text{ } \\ \text{ } \end{array} \right), \dots$$

ARS

가 .

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가

가 ,

가

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2

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가

가

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)

6

< 13>.

가

□

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가

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가

가

. < 13>

가

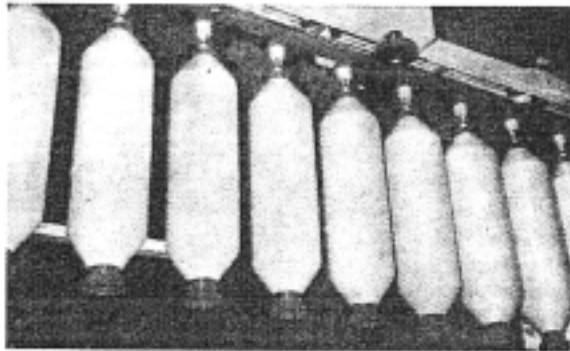
,

.

2

가

가 가 ,
가 .



< 13>

)

2 ,

, ,

ARC가 .

ARC 1 가 ,

< 12> ARC

, 1 ARC

가 . < 14> ARC ARC

가 1 가 .

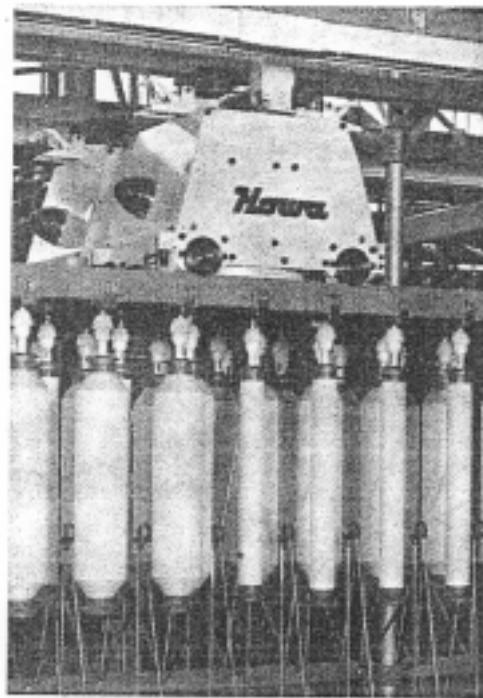
< 15> 가

ARC가 ,

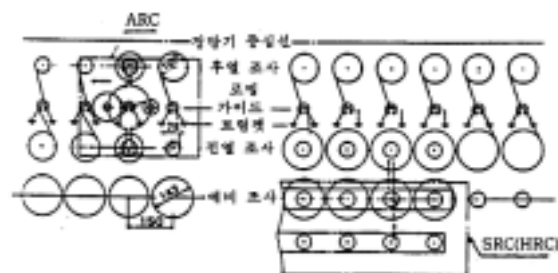
960

100

가 가 .



< 14> (ARC)



< 15>

SRC()

HRC()

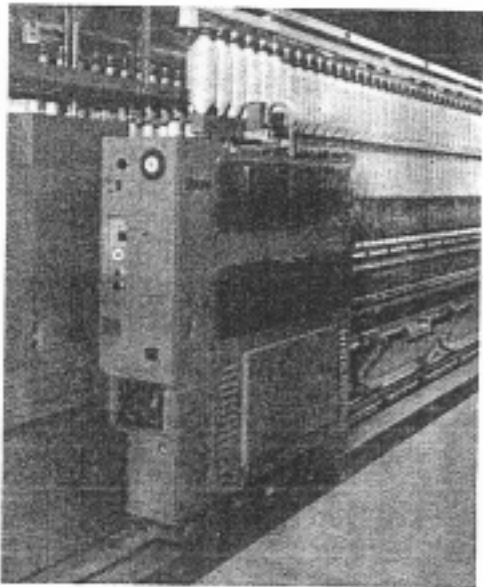
ARC 1

가 . < 16>

SRC 2 가 ,

,

6 가 .



< 16> (SRC)

.

960 50 . HRC()

SRC 3 ,

.

)

,

가

ARS

. 1

8

.

320 /hr(120

22.5)

.

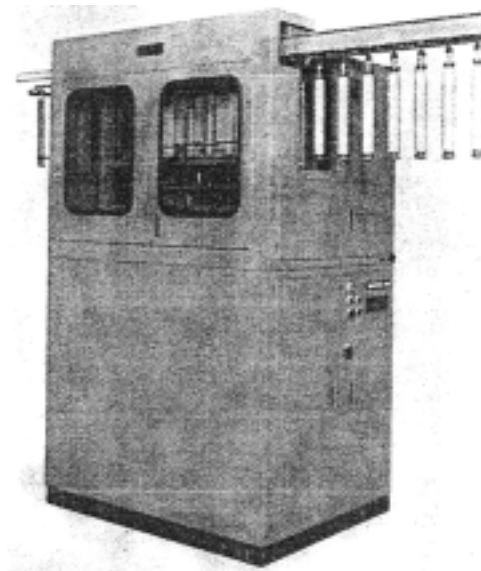
가

. <

17>

ARS

.



< 17>

(ARS)

)

,

MCB가 ,

.

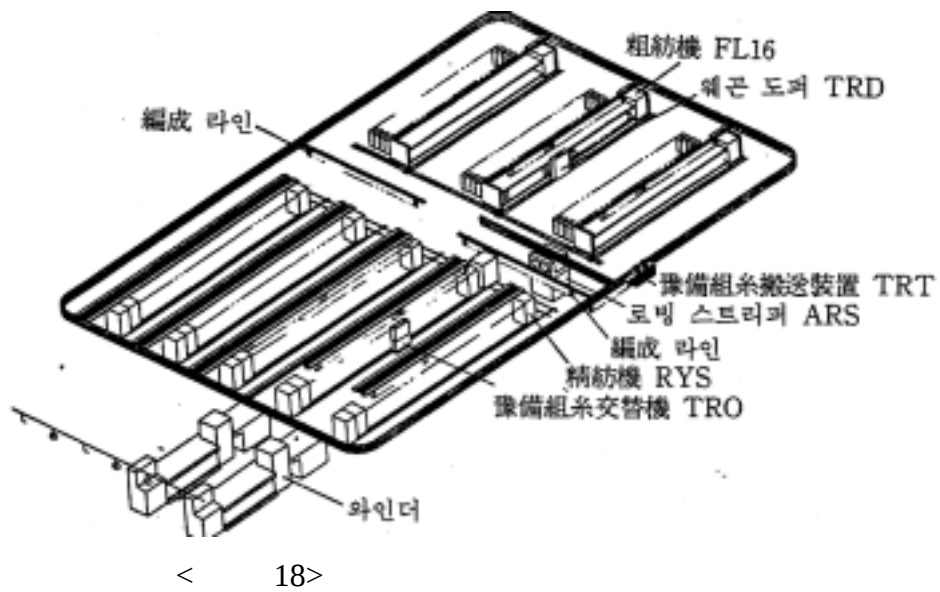
)

TAD 가 HAD가 CAS
3)

가 (peg tray)

< 18>

가

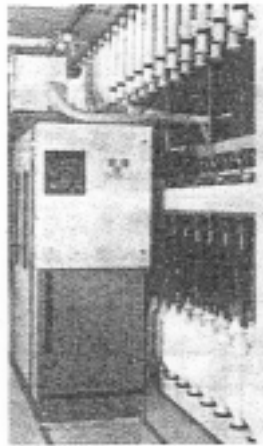


가)

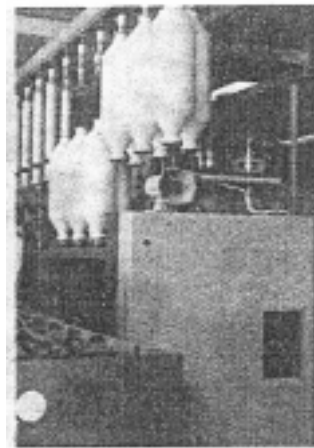
(TRD)

가

가 1 6
(donning) .
가 < 19, 20>.



< 19> TRD



< 20>

. < 19> , <
20>

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. .
)

,
(TRT) . 0.4kW, AC 200V
가 , 가 .
가

가

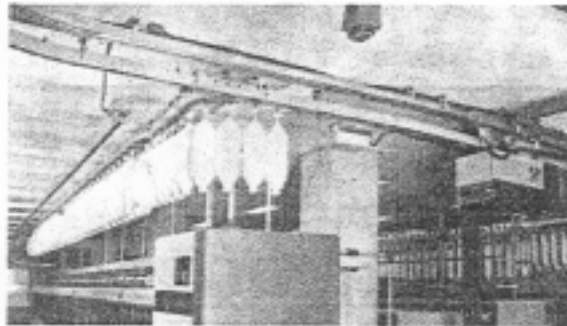
. < 22>가 ,

. ()

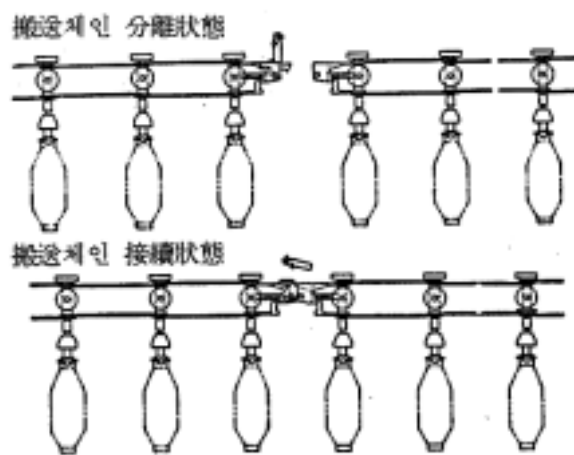
< 23>.

. (station)

< 24>.



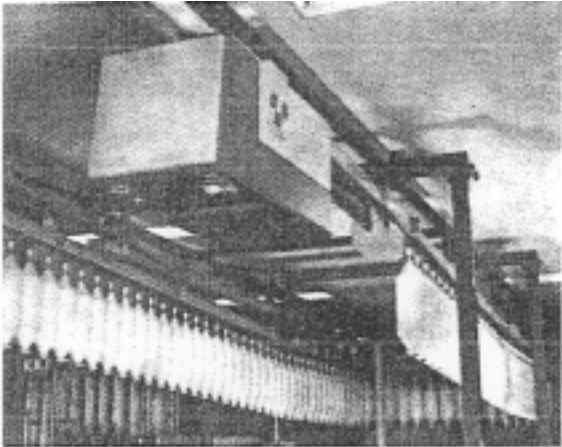
< 21>



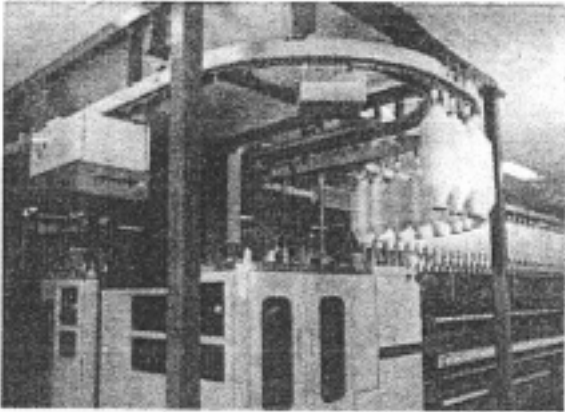
< 22>

25m/min,

15m/min . /
15m/min . 96 1 , 3 .
.
.
(ARS) 1 12
, 400 /min(, 2) .



< 23> (TRT)



< 24>

)

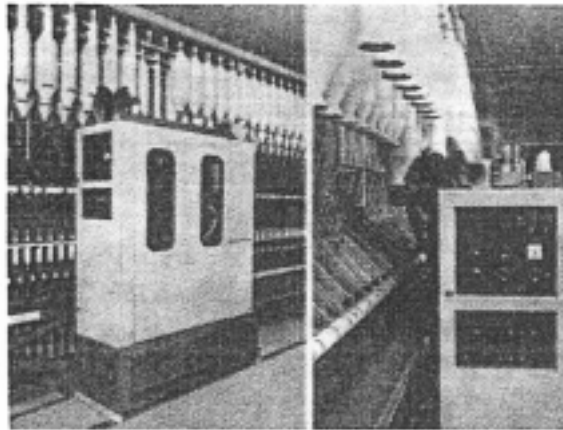
(TRC)가

.

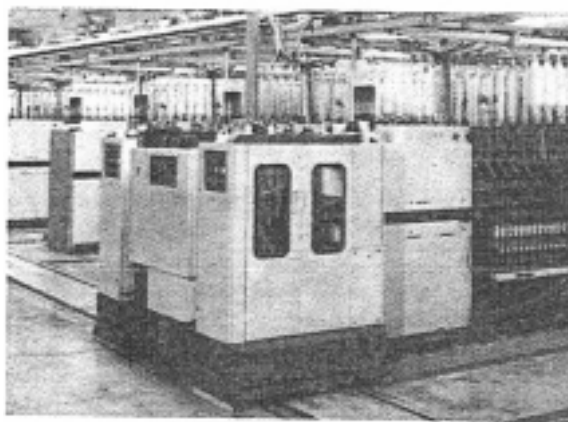
.

< 25>.

< 26>.



< 25> (TRO)



< 26> TRC

)