

## 1.2

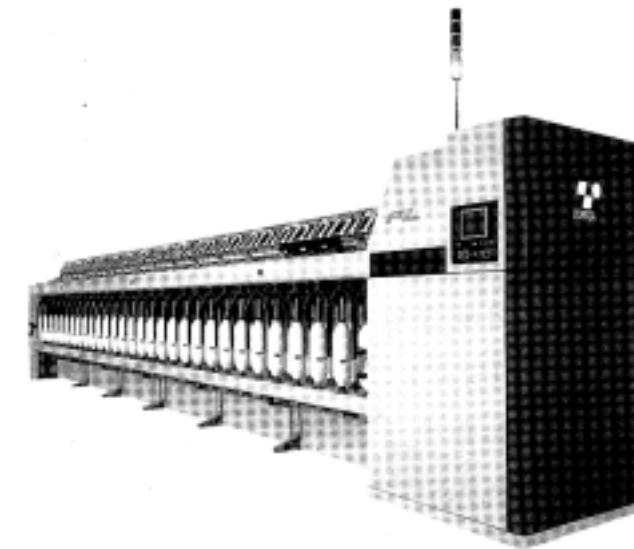
### 1.2.5 (roving)

가 , ,

가 ( .

roving) 가

가 .



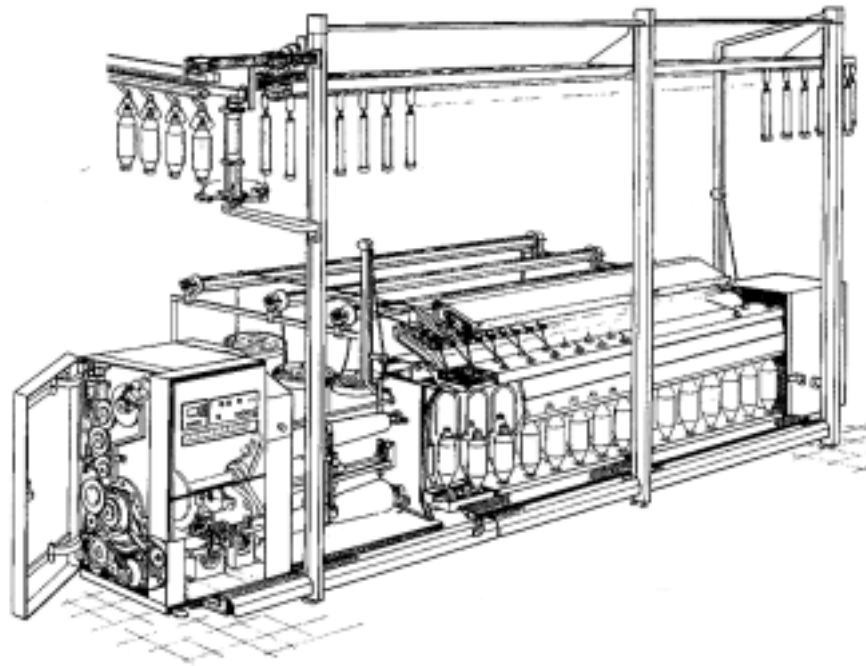
< 1-33>

가 가

‘ (絲)’ ,

(始紡機 · slubbing frame)

(間紡機 · intermediate frame), (練紡機 · roving frame) (細練紡機 · fine roving frame)



< 1-34 >

가 가

(high draft)

(單紡機 · simplex fly frame)

가 .

(super high draft)

(open end)

.

가

가

가

,

(bobbin),

.

가 (加燃)

,

(成形) ·

(捲取)

.

1.2.5.1

(1)

(drafting motion)

,

.

1)

3 (線)

1-35

,

,

3.5~5.5

.

4

(漸進式)

가

가

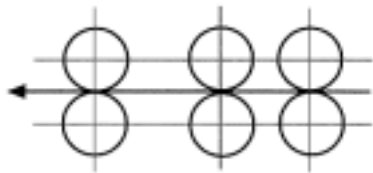
,

.

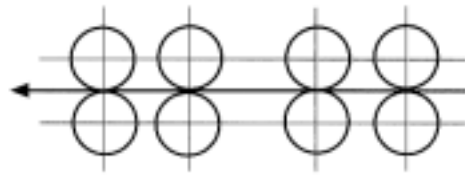
4 2

1-36

가



< 1-35> 3



< 1-36> 4

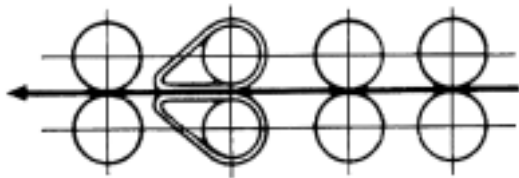
2)

가

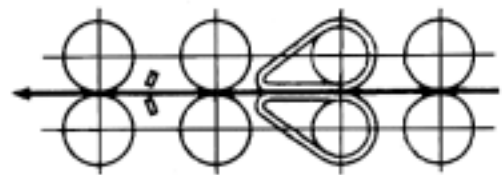
가 가

가

가



< 1-37> Whitin



< 1-38> D

(Whitin)

1-37

(2<sup>nd</sup>)

2

가 , (3<sup>rd</sup>)

.

18

.

D 1-38

,

가

가 (collector)

. 7~12

D .

(2) 가 (twisting motion)

가

.

1-39

(flyer)

(flyer legs)

,

가 (roving)가 .

가

(抱合)

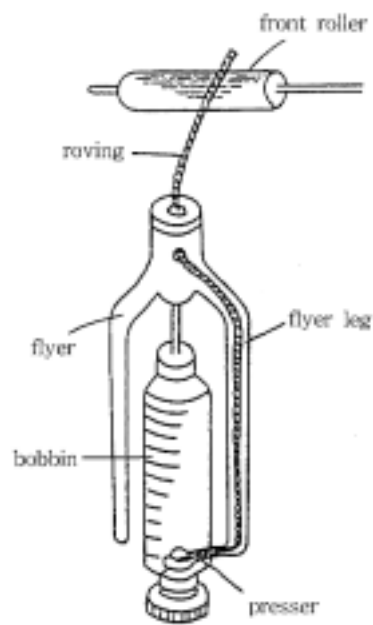
가

.

가 1in

가

1-39 2 (leg) 가 ,  
 (hollow leg)  
 (presser)가 . (solid  
 leg) (balance) .

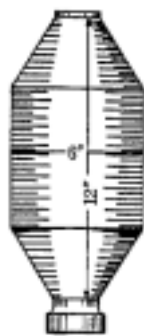


< 1-39> 가 .

(鍛造品)  
 , 가 가  
 가

(輕金屬) 가 가 가  
 .  
 (3) . (building motion)

.  
 , 가 (flyer lead)  
 (bobbin lead) .  
 .  
 가  
 ,  
 1-40  
 (pitch · ) 12in  
 가 가 .  
 (bobbin rail · top rail) ( ·  
 layer)  
 ,  
 (robbing bobbin) (double cone)  
 .



< 1-40 >

,  
 가

가

가

1-41

(top cone drum)

(bottom cone drum)

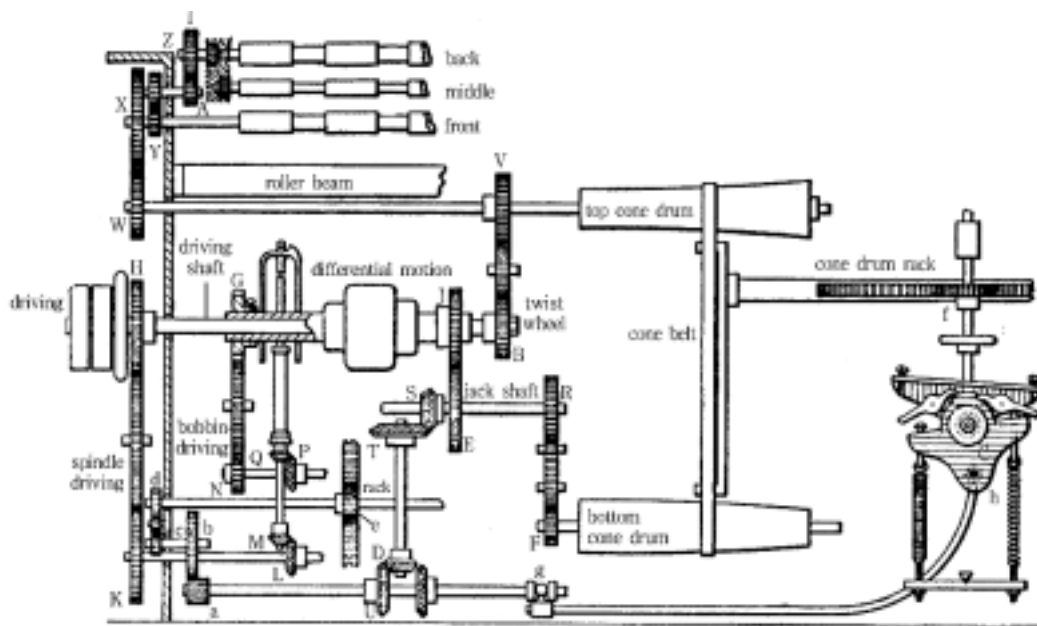
(cone belt)

(驅動軸 · driving shaft)

(差動運動 ·

differential motion)

가



< 1-41 >

1.2.5.2

가 1,000~2,000rpm

1998

1,200rpm

37.0% , (lift . )

16in 86.0%, 6in 46.1% .

(輕合金) (die casting)

, (doffing) . (roller

part) (top arm)

. (光電管)

.

,

가 ,

.

(doffing) ,

,

(祖絲交替機) .