

.

- 4. (2) -

4.2

(1)	,	.
(2)	,	,

(1)

1)

(creel roller) helical gear , timing belt

chain 3 .

가

가

a)

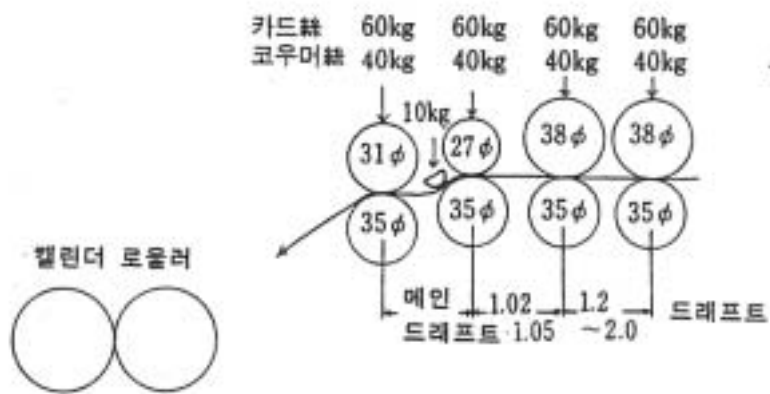
.

3 over

4 4 over 5 2nd

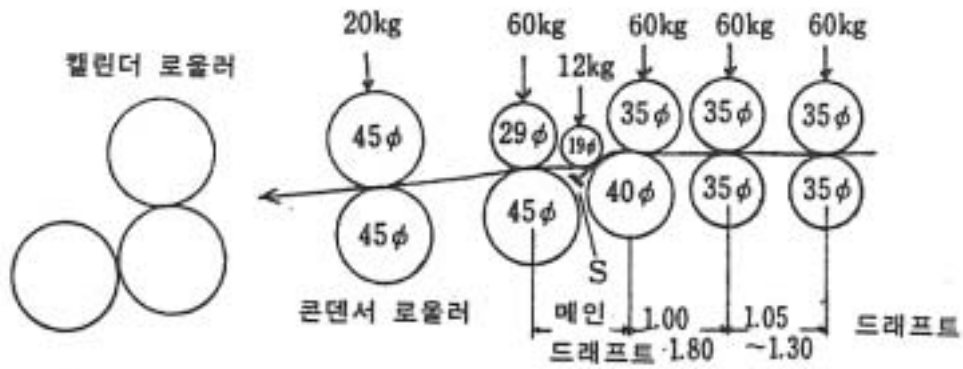
, 5 4,4 4,5 3,3 5

.

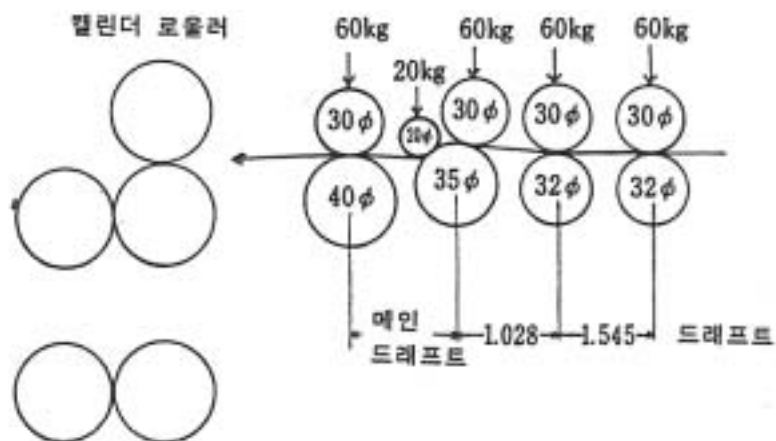


< 4.1 > 4/4

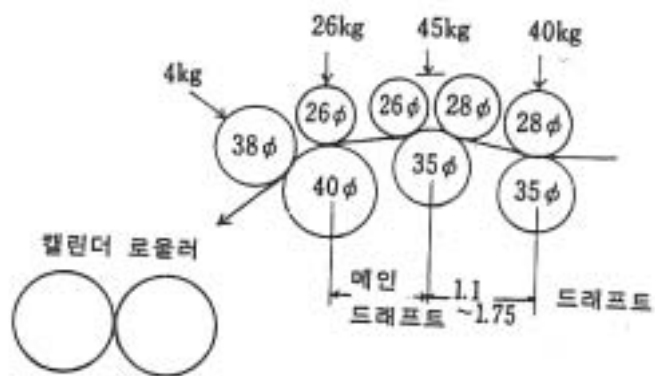
2



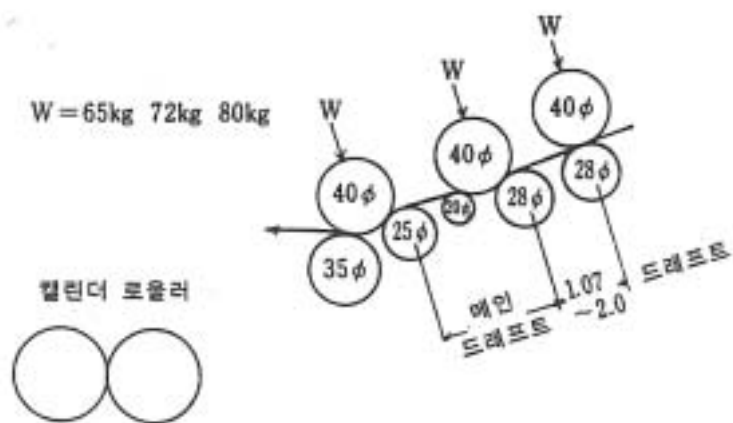
< 4.2 > 5/4 3



< 4.3 > 5/4 2



< 4.4> 5/3 2



< 4.5> 3/5 2

(helical flute)

2 (zone)

(break draft) 1.5

condenser roller, press calender roller, 2 calender roller

tube wheel

, 300~400m/min

presser bar : 가 D
가

가 (main draft)

가

,

: , 가

. 4

F R~2nd R : L+(3~5)mm

2nd R~3rd R : L+(6~10)mm

3rd R~BR : L+(10~13)mm (, L =)

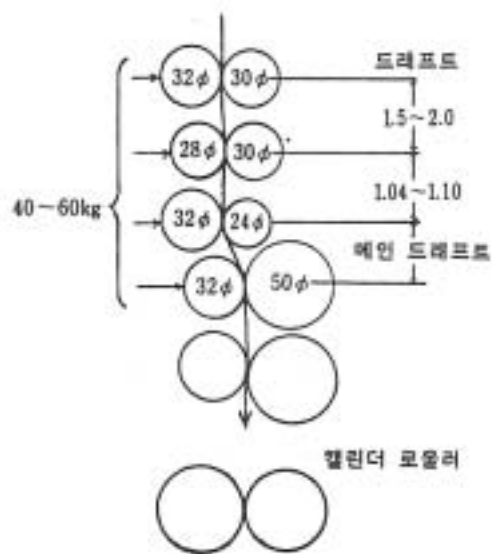
,

< > < 4.7>

가

가

가



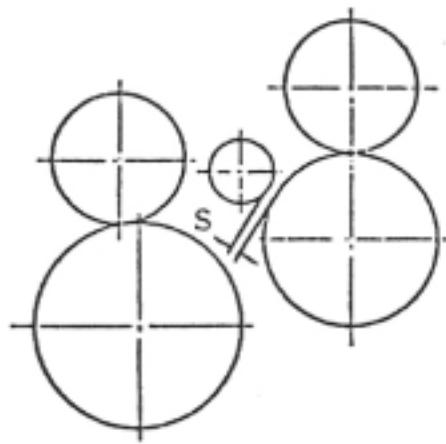
< 4.7> 4/4 2

(spacing gauge) :

. 3 4, 4 5

. < 4.8>

- : 0~0.5mm
- : 0.5~0.85mm
- : 1.0~2.0mm



< 4.8>

b)

(top arm)

(end bush)

(plunger)가

3)

a) (gatherer)

가

b) (calender roller)

가

(reducer)

가

(over run)

c)

(tube wheel)

(seal)

(2)

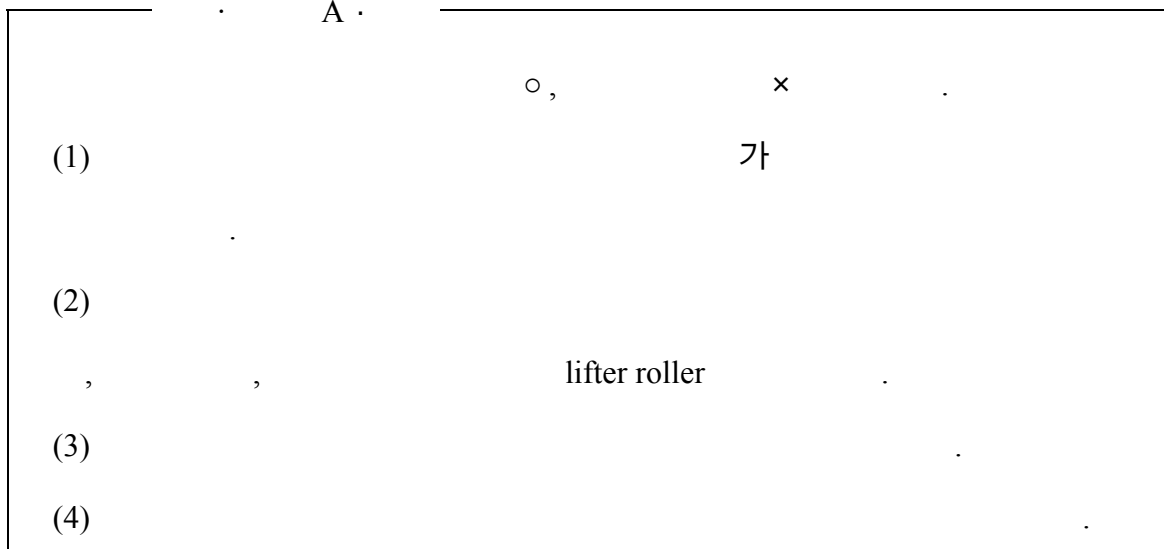
가

(coupling)

S

S

가

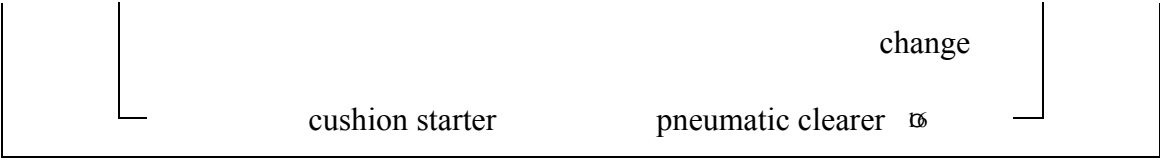


[] (1) ○

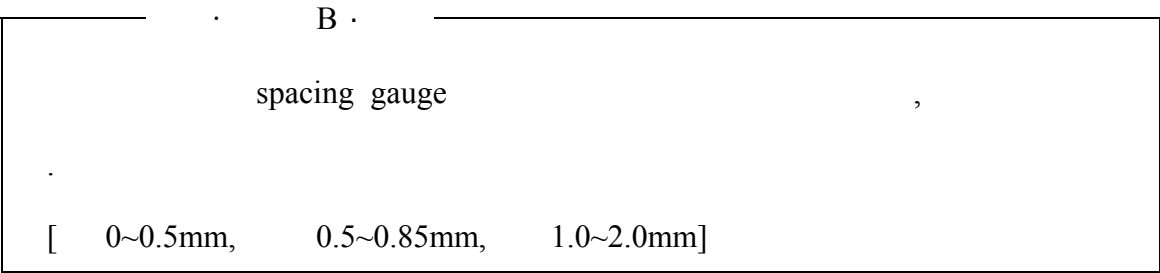
(2) ○

(3) ×

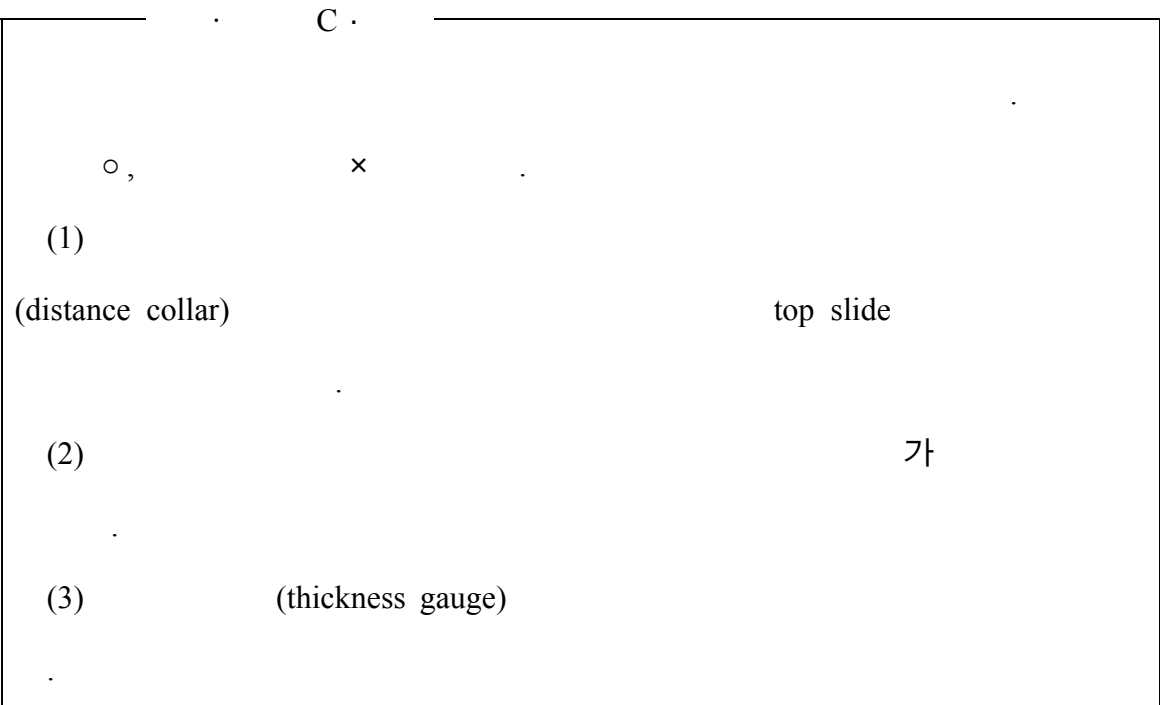
(4) ×



[] (1) , (2) , (3) , (4) , (5) , (6) , (7) , (8) , (9)



[]



[] (1) ○

(2) × ,

가

(3) ○

(2)

1) (stop motion)

a)

· (wire rod tumbler)

b)

· ,

· ,

· ,

· ,

· ,

c)

·

d)

· magnet motor (thermal relay)

e)

·

·

·

·

f)

· ,

2)

a)

(Armens clearer)

(pad)

2 가 .

(cloth)

(comb)

,

(pneumatic air)

.

.

.

,

가

.

b)

.

.

c)

.

.

d)

,

가

,

.

.

.

3)

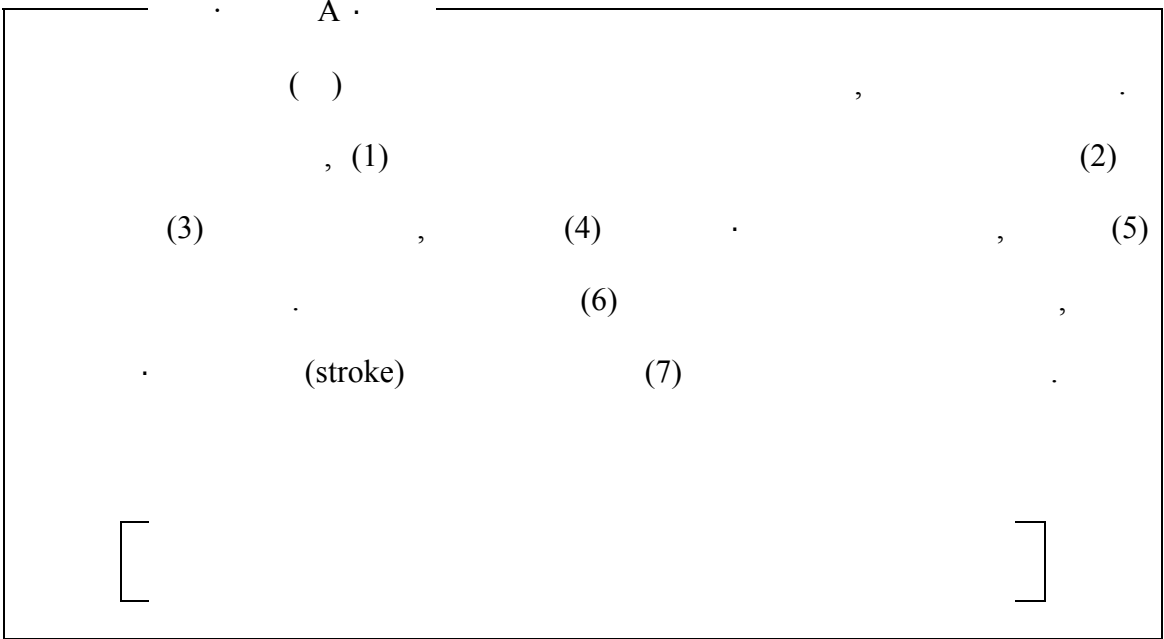
가 , 가 가
(4~10m) 2
, 가
(40cm
) 1
,

4) ()
가

(3)
(double chain wheel)
(carrier bar)가
2 ,

가

L



[] (1) , (2) , (3) , (4) , (5) , (6) , (7)

