

(10)

- (Weaving)-

· (picking motion)

1)

가

(negative picking)

(positive

picking) 2가

가

가

가

2)

(over picking)

(under picking)

cone

picking lever picking

가)

1)

가

가

)

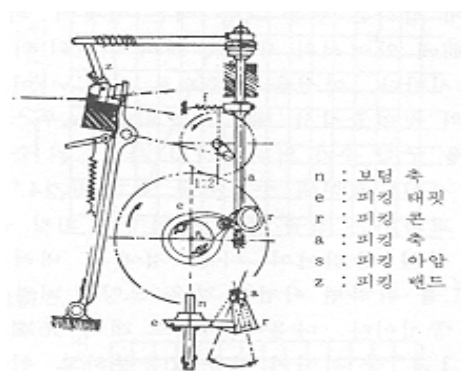
3

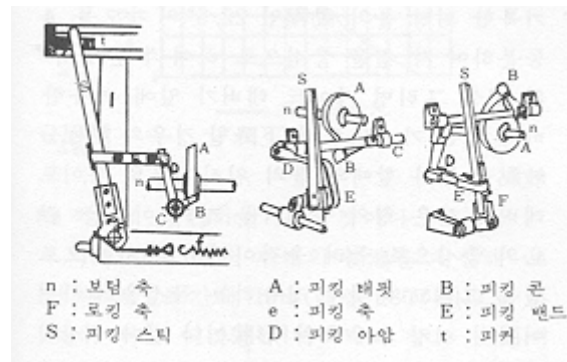
가

가

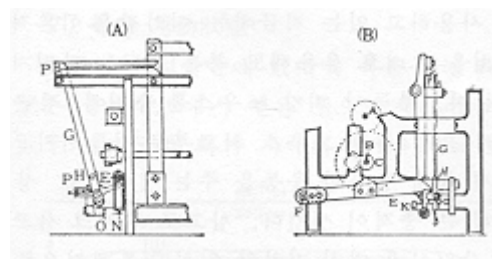
가

1)





< 2>



< 3>

3) (positive picking)

가

가 가 .

(ribbon)

.

4) (pick at will motion)

가

가 . 가 pick

and pick , pick at will motion .

5)

가)

,  
 . N  
 2 180 15 ° ( 9 1/8 ", 3 ") .

가

9 3/4 ", 3 5/8 "

.

가

.

)

,

.

< 1>

|            |         | A                 |               |
|------------|---------|-------------------|---------------|
| 44 "       | 180~200 | 9 " ~9 1/2 "      | 9 1/8 "       |
| 46 " ~52 " | 175~185 | 9 1/4 " ~ 9 3/4 " | 9 "           |
| 56 " ~60 " | 170     | 10 " ~10 1/2 "    | 8 7/8 " ~ 9 " |
| 65 "       | 150~160 | 11 " ~11 1/2 "    | "             |

가

.

,

가

. N

1 .

6)

가

가

.

4

. ,

.  $\frac{5}{32}$ "

.  $33\frac{1}{2}$ "

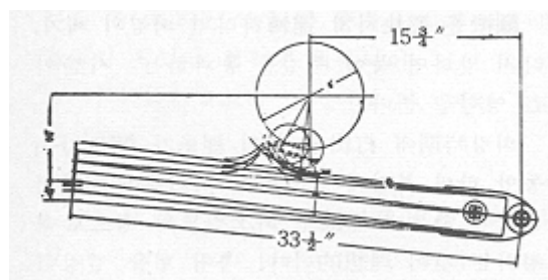
. 3"

.  $6\frac{1}{2}$ "

. ( )  $45^\circ$

. 1, 3, 6, 10

. (  $8\frac{3}{4}$ " )  $1\frac{1}{2}$ "



< 4 >

.

4"

$(4''+1\frac{1}{2}''+\frac{5}{32}''+3'')$

.

가 .

4"

22.5 °

$1\frac{1}{2}''$

.

20

1, 3, 6, 10

4

.

22.5 °

4

$1\frac{1}{2}''$

가

가

.

.

.

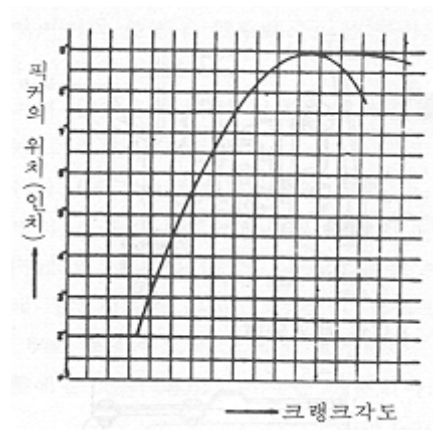
5

6

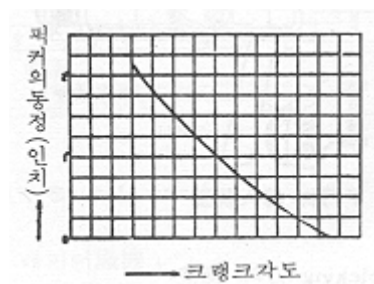
.

가

가 6 10m( 180 )가



< 5>



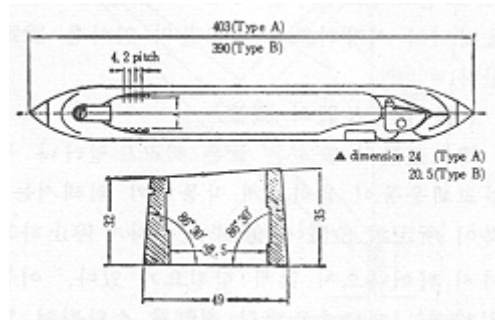
< 6>

7)

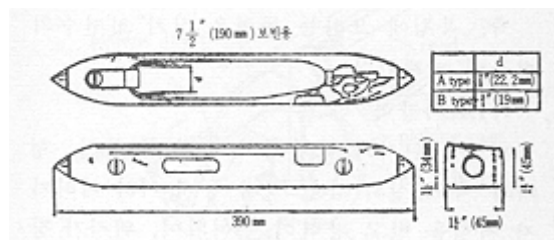
가 가  
가 . 가 가

가

· , , , , ,  
( 7 8).



< 7>



< 8>

가)

, ,

.

V,

S,

T

,

S=VT

,

Q,

rpm

N

,

$$T = \frac{60}{N} \times \frac{Q}{360} \times \frac{Q}{6N}$$

.

$$V = \frac{6NS}{Q} \dots\dots\dots$$

, , 가  
 , W, V,  
 E, 가 g ,

$$E = \frac{1}{2} \frac{W}{g} V^2 \dots\dots\dots$$

$$E = \frac{W}{2g} \left( \frac{6NS}{Q} \right)^2 = 18 \frac{W}{g} \left( \frac{NS}{Q} \right)^2 \dots\dots\dots$$

$$V = \sqrt{\frac{2gE}{W}} \dots\dots\dots$$

, .  
 )

가 ,  
 가 , 가  
 .

, , ,

가

.

8)

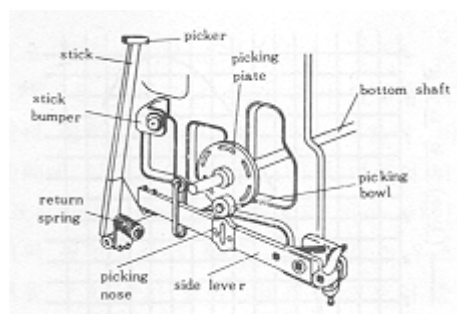
가

가)

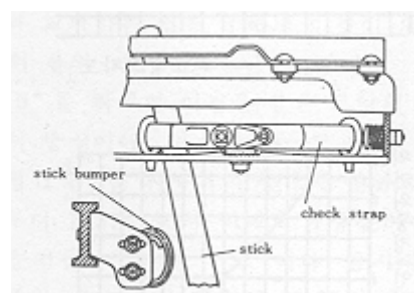
10

가

9 10 ,



< 9>



< 10>

(1) picking

(picker stroke)

(

) 가 .

가

가 125 °

(2) picking

가

(back dead center)

가

72 °

(3)

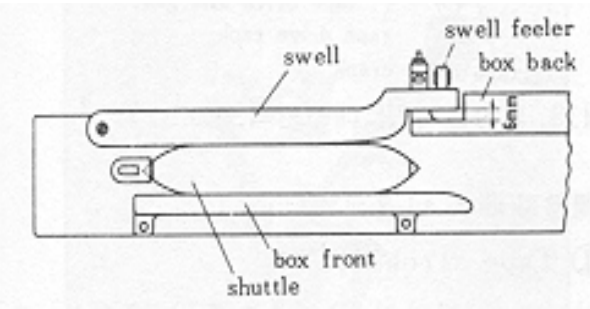
가 .

(4)

(5)

11

가 6mm



< 11> Shuttle box

)

가

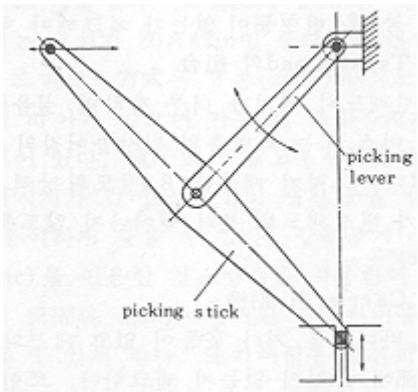
가

가

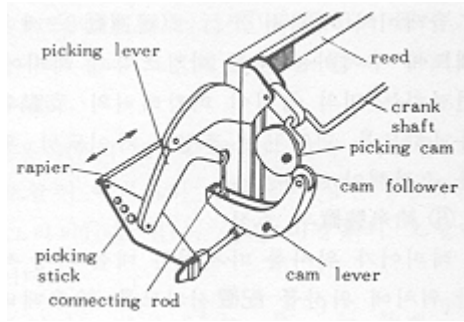
2

(1)

12, 13



< 12>



< 13 >

Rapier stroke

가

( )

Rapier guide

가

가

Rapier head opener

가

가

.

stick

가

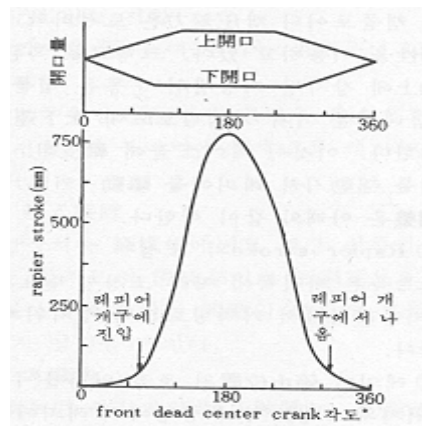
.

가

가

.

14



< 14 >

(2) Flexible rapier

가

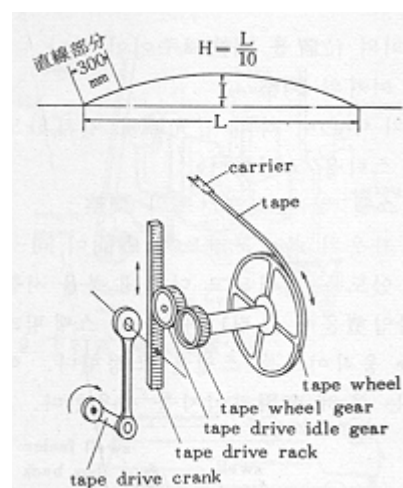
DSL

DSL

가

가

15



< 15 >

Tape stroke

+12mm 가

Tape guide

Tape

15

, , 가 .

Tension pad

가

. 8g 가

Carrier

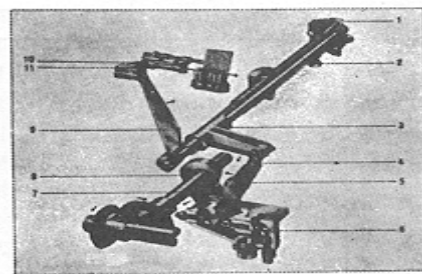
, ,

. )

Sulzer . 16

spline

가 가



< 16> Sulzer

가

.

.

$$3\frac{1}{2}\text{ in,}$$

$$\frac{9}{16}\text{ in,}$$

$$\frac{1}{4}\text{ in}$$

$$40\text{g}$$

.

1

.

,

( 30 ° )

.

,

가

.

가

.

가 0.03mm

.