

1.

가 100,000rpm
35mm
Platt Saco Lowell Masterspinner
가
100%
100%
100%
가 (friction
spinning process)

1967

가 Platt Saco Lowell

OE

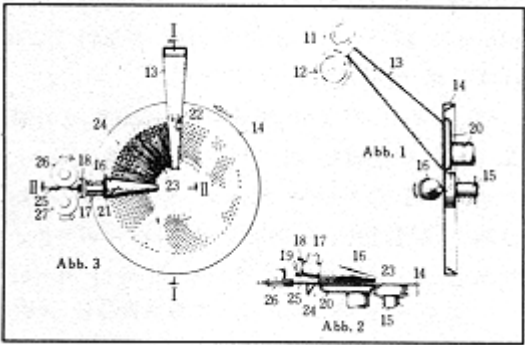
1

,

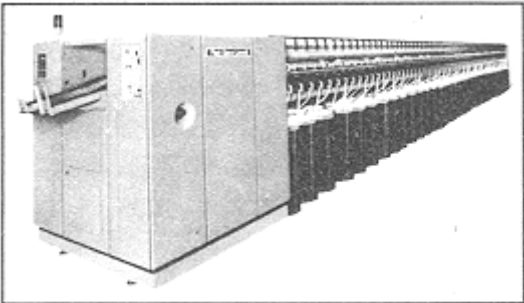
()

가

가 Masterspinner



< 1> 1967



< 2> Masterspinner

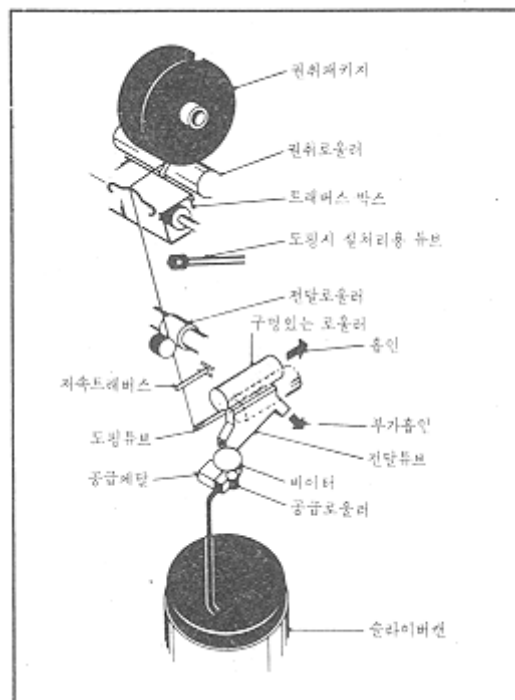
가 ,

(pinned beater)

가

가

가

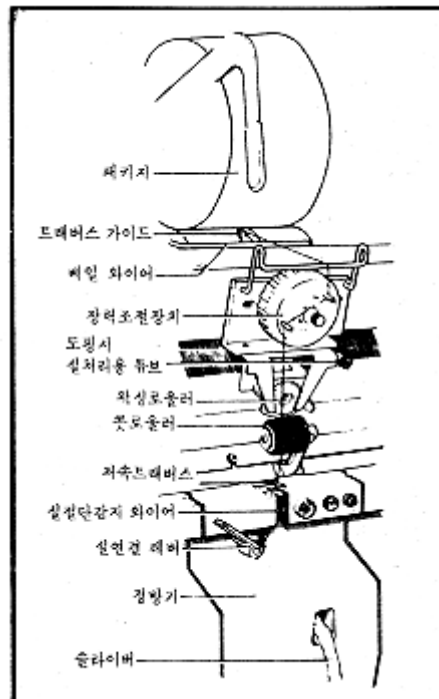


< 3 >

4 ° 20'

가

가



< 4 >

1 Masterspinner

144

(position) (

72

)가

가

가

2.

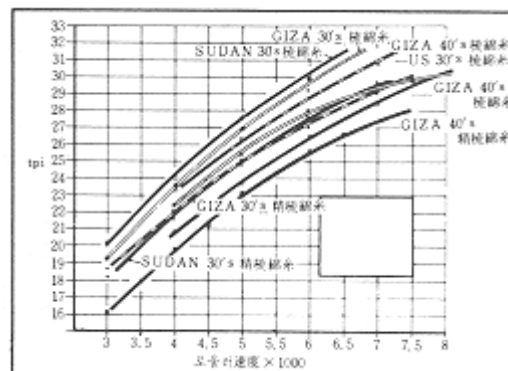
()

Masterspinner

가

5

40mmdl



< 5 >

Masterspinner

100%

100% () 1.7dtex, 1.3dtex

100% 3.3, 2.2, 1.7, 1.3, 0.6dtex

100% () 1.7, 1.3dtex

/ , / , / , /

10~40NeC

(17~68Nm)

가

3.

가

1.3 가 0.6dtex 가

800t.p.m 24NeC(40Nm) 가

4,000rpm

6,500rpm

가

가

가

110

가

가

(resilience),

5

가

500rpm 가

가

가

가

,

가

.

가

가

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4.

.

(wrapper)

가

가

가

가

가

()

,

,

가

가

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가

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가

()

.

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.

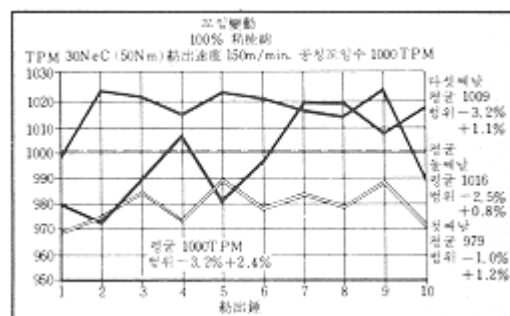
.

5.

()

20 6 30NeC(50Nm) 100% 가

1,000t.p.m



< 6 >

979t.p.m 1%+1.2%

1,016t.p.m

-2.5% +0.8%

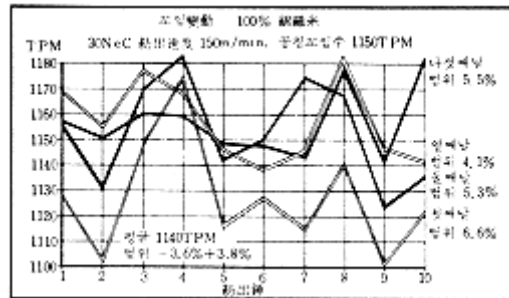
1,009t.p.m

-3.2% +1.1%

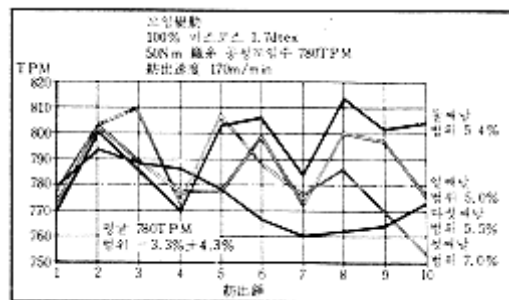
5

1,001t.p.m

-3.2% +2.4%



< 7>



< 8>

7 30NeC 100%

가 1,150t.p.m

1,140t.p.m

가 -3.6% +3.8%

가 780r.p.m 100%

1.7dtex 30NeC

8

가

780t.p.m(

110metric)

, 100%

가 160

가

가

30NeC 100%

9

10

10

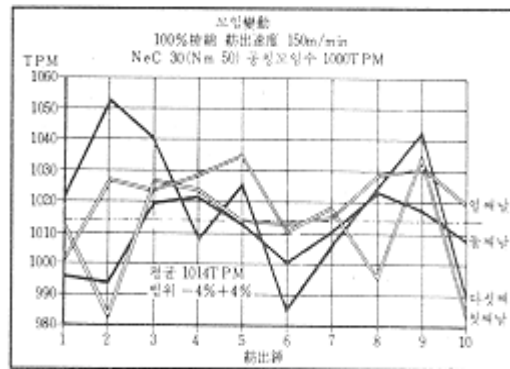
가

10

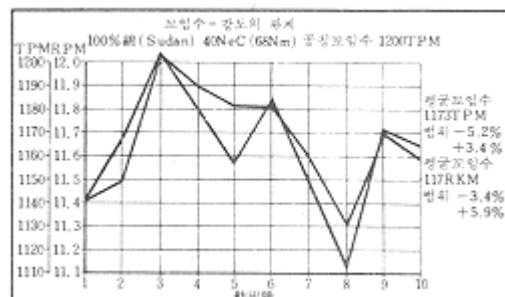
-4% +4%

10

40NeC 100%



< 9>

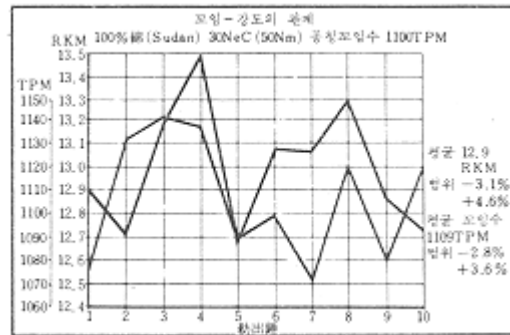


< 10>

가

가

-5.2% +3.4% , -3.4% +5.9% . 30NeC [(11)] 가 .



< 11>

-3.1% +4.6%

-2.8% +3.6%

10

144

가

1

30 40NeC (50 68Nm) 100%

가

가 10

< 1> -100%

	NeC30(Nm50)		NeC40(Nm68)	
(RKM)	12.9	19.2	10.4	17.8
CV%	7.4	4.9	8.5	6.1
%	9.1	8.4	7.3	7.0
U%	11.8	9.1	12.1	10.9
(1,000yd)				
가	22	8	58	176
	37	8	53	6
	23	29	50	43

2

가

< 2> -100% SLM

	20NeC(34Nm)		
		()	
(RKM)	11.7	11.5	14.4
%	8.6	9.2	7.7
U%	11.4	12.4	13.7
(1,000yd)			
가	45	22	55
	17	78	315
	20	500	287

36NeC 100%

23 /1,000 -

< 4> -100% , 1.7dtex

	NeC18(Nm30)		NeC30(Nm50)	
(RKM)	13.6	16.0	13.6	14.1
%	27.8	30.3	25.6	26.2
U%	8.0	10.7	10.0	11.3
(1,000yd)				
가	8	2	8	2
	0	2	9	16
	0	6	8	17
(metric)	105	130	98	130
TPM	580	715	700	920

, , 4 ° 20′

,

가

가

6.

가

가

