

double feed Strand (feeding disposition)가
가 Double feed
, 가
가
creel
roving roving
가 , 가
(snap round)
가 % 가
가 가
Table

Table . Effect of feeding disposition on ends down loss(%)

Count, Ne	Total number of spindles observed	Proportion of spindles (%) with		Proportion of ends down (%) in	
		rovings fed			
		With a crossover	Side by side	A	B
59s carded	64,512	51.0	49.0	6.53	7.89
80s carded	99,109	47.0	53.0	3.56	5.62
80s combed	16,505	52.8	47.2	4.49	5.96

, roving

.

. Condenser

double feed strand

spindle part strand가

. strand

. 가

. condenser strand

strand strand

. Condenser top arm drafting

front roller nip middle bottom roller

. condenser

가 . 2mm condenser가 middle roller

nip 가 break draft zone . carded

roving carded roving 가 . Condenser

double feed draft single feed

. ,

condenser 가

strand . Table

. Fig 2 2 double feed single feed 가

(doff position) .

, double feed

. Condenser

. strand 가
double feed condenser
single feed

가 . Condenser strand가

condenser

Table . Effect of condenser ion double feed upon yarn properties

Mixing	Hank of input material No	Feed at ring- frame	Whether conden- ser is applied	Draft at ring- frame	Actual count, Ne	Cor- rected lea, CSP	Uster U%
L 147/Kalyan	1.1	Single	No	22.5	24.3	2,000	17.1
carded	2.2	Double	No	23.4	24.0	2,022	15.0
	2.2	Double	Yes	23.4	23.7	2,061	15.5
Sudan/Elpaso	2.4	Single	No	34.4	74.2	2,270	18.2
carded	4.8	Double	No	33.2	73.3	2,391	17.9
	4.8	Double	Yes	33.2	72.2	2,347	17.4

Double feed 가

Fig 1, 2 package가

. 가 , condenser 가

(nip

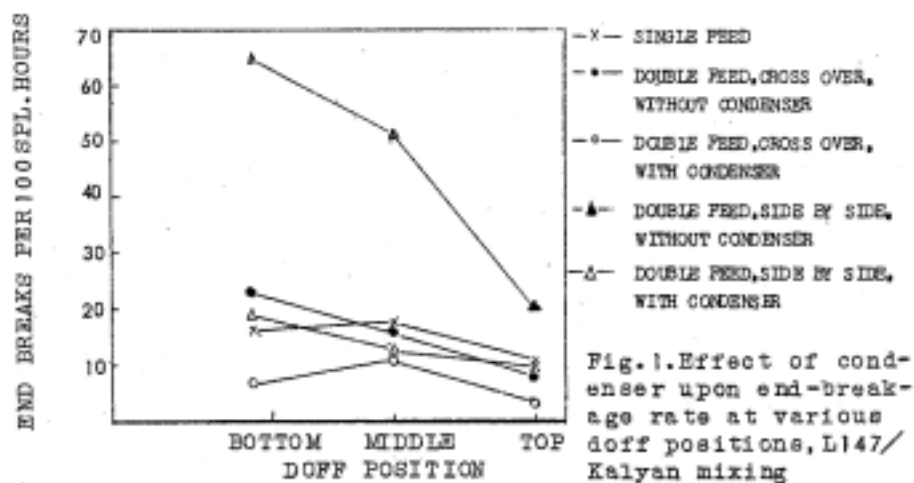
) front bottom roller strand 가 wrap angle

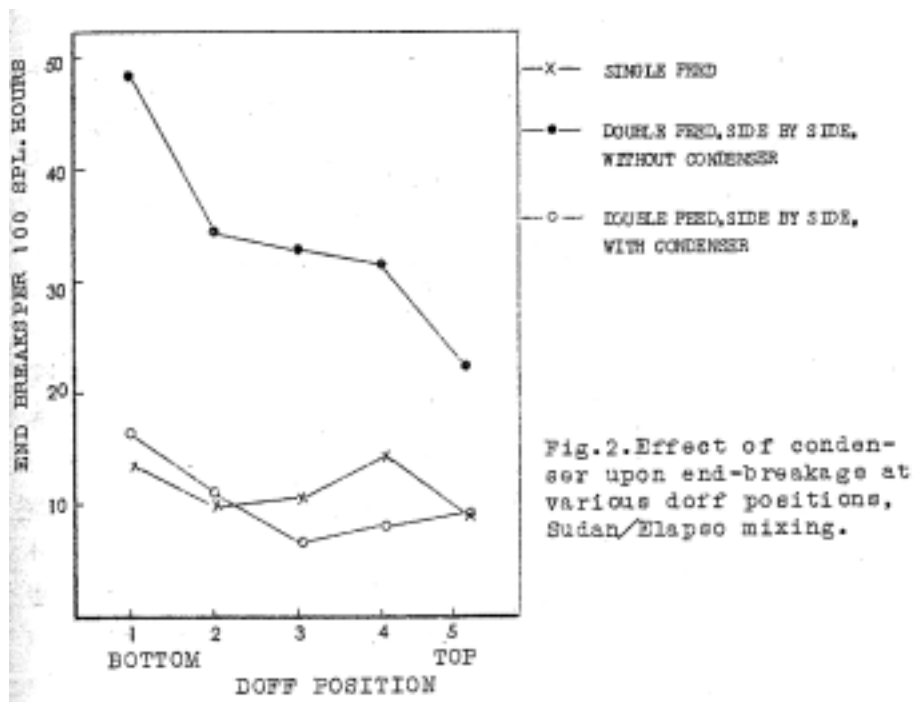
Table . Effect of condenser in double feed upon spinning performance

	Hank of input material	Feed at ring-frame	Whether condenser is applied	Test 1		Test 2	
				Count, Ne	End breaks, 100 spindle hr	Count, Ne	End breaks, 100 spindle hr
L 147/ Kalyan carded	1.1	Single	No	24 ^s	13.5	-	-
	2.2	Double ^a	No	24 ^s	14.9	-	-
	2.2	Double ^a	Yes	24 ^s	6.6	-	-
	2.2	Double ^b	No	24 ^s	41.4	-	-
	2.2	Double ^b	Yes	24 ^s	12.6	-	-
Sudan/ Elpaso carded	2.4	Single	No	64 ^s	8.6	70 ^s	10.0
	4.8	Double ^b	No	64 ^s	21.1	70 ^s	34.0
	4.8	Double ^b	Yes	64 ^s	10.6	70 ^s	10.2

a. Rovings fed with a crossover.

b. Rovings fed side by side.





가

double feed

condenser

double feed

. Condenser

double feed

가

roving

(Size)

doubling

1.

draft

(top arm drafting)

가

- .
2. 가 draft
- ,
3. double feed
- , draft single roving
- .
4. , single feed double feed가
- 가 가 가
- double feed single feed
- double feed 가
- 가 .
5. double feed strand ,
- strand spindle part
- nip . double feed
- roving break draft
- zone strand roving
- .
6. strand break draft zone condenser double
- feed single feed
- 가 . Condenser
- strand
- .
7. (Minimum Twist Test)

, 가 .