

(2)

- AFIS (Advanced Fiber Information System)(1) -

1 AFIS

AFIS(Advanced Fiber Information System) Zellweger Uster

, (seed coat nep) N ,

L & D , 가 T ,

F & M , ITMF

(International Textile Manufacturers Fderation)

AFIS . AFIS-F & M

,

(maturity) (fineness)

.

AFIS , -

,

. AFIS 가

(fiber individualizer) cleaned fiber, dust trash

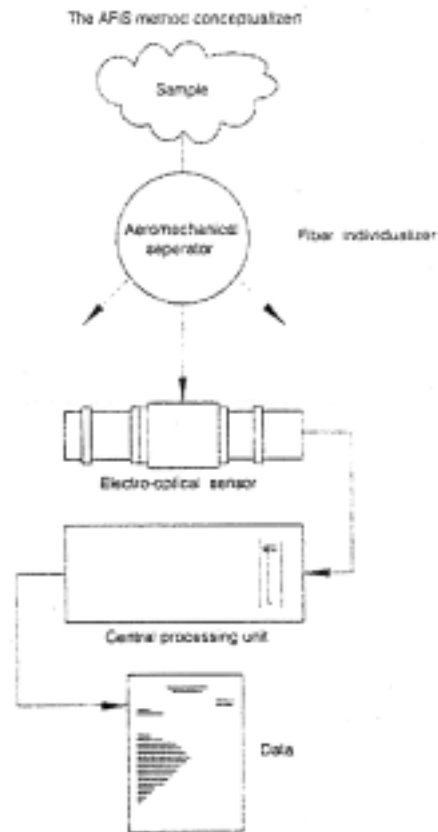
3 ,

- ,

가 .

AFIS

,



< 1.1> AFIS

1.1 /

3 4

(brushless)

가

230V(

) 4

(potentionmeter)

가

(control system)

가

1

1.2 / (air plenum)
/ ,
. 4.0
.
/
(seal) ,
. , , ,
.
.

1.3 /
AFIS ,
, (Control Board)
(polling) . AFIS
“start”
.
AFIS
.

1.3.1
 ,
가 .
.

- /
- /

1.3.2

- ,
-
-
-
-
-
-
- /
- (line voltage)
-

1.3.3

-
-
- (differential pressure readings)
- 230V 110V

1.4

1.4.1

< 1.2>

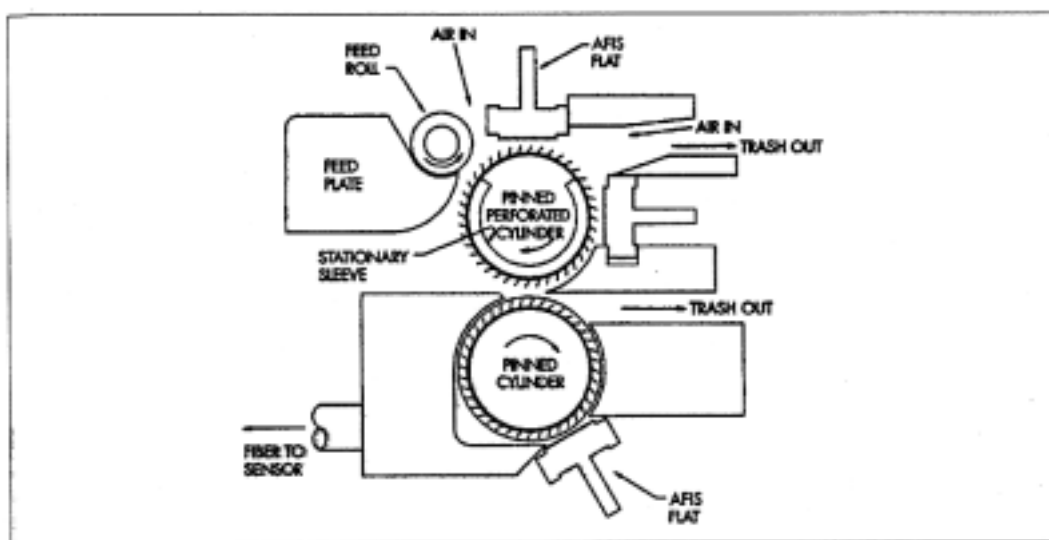
()

가 가 .

, / (dust)

, , (trash) “ ” (“counter-flow” separation slot)

, 가 가 가



< 1.2> AFIS >

2 .

.
,

가 (cleaned fiber, dust trash) 가

.

1.4.2 /

3 4 .

,
가

.

,

1.4.3 /

3 4 (stepper motor)

(worm gear) . 140~1,116(/)

가 .

,

7- .

“backward” .

1.4.4

(sliver detector) (feed tray)

(feed plate) . 가 .

LED , ()가

/

가 (light beam) .

가 15

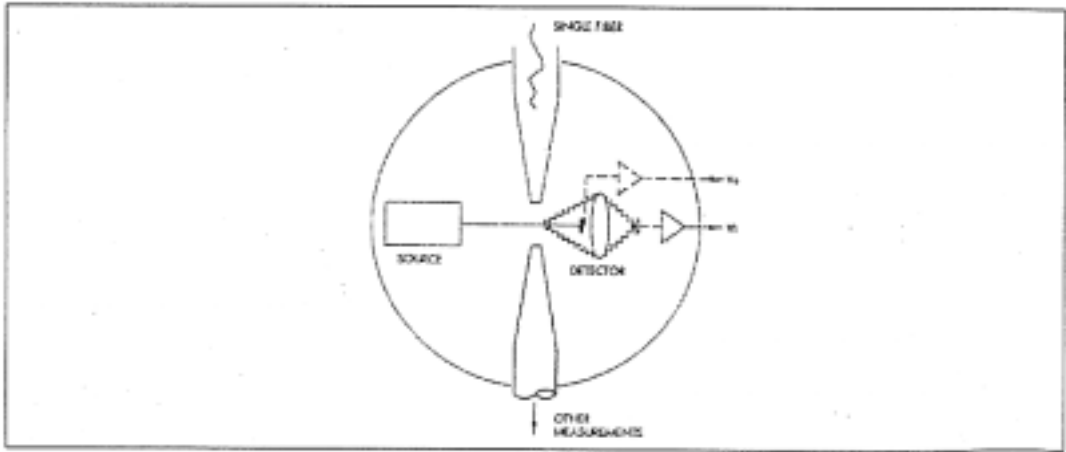
, “end of sample” 가 .

1.5 -

- (E-O) (4

가), ,

가 .



< 1.3>

() , 가

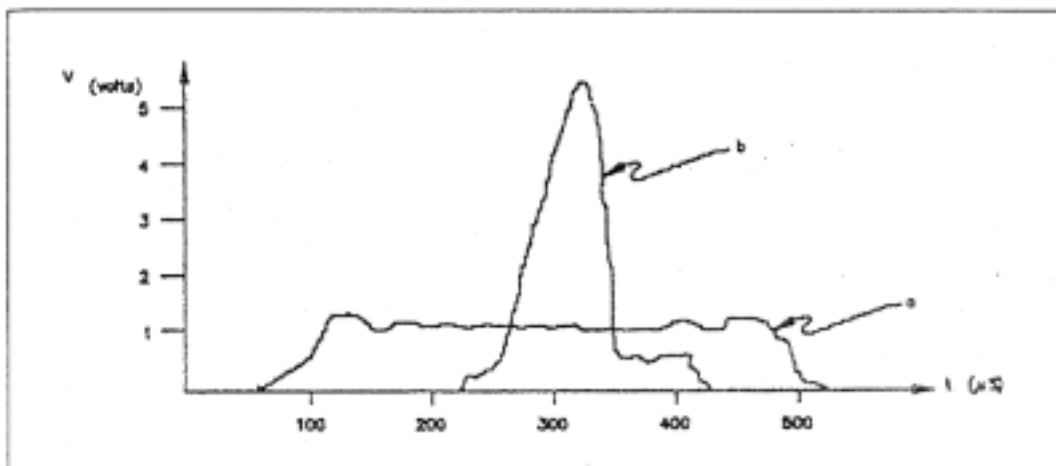
E-O 가 , - .

(time of flight) .

< 1.4> a

가
b “ ” . 가

AFIS 가 1 ,
가 , , , ,



< 1.4> AFIS

1.6

AFIS CPU, (serial I/O card),
, , 3.5 20 가

(SN 158 40MB 가 ,) .

Wenger 1/1 Okidata 530 METTLER .

AFIS (mother board)

(setup)

가 . 4 (Data Acquisition Boards :DABs) . AFIS (: Nep, Length & Diameter, Trash) 가 .

1.7 (DAB)

AFIS (back plane)

(PCB) .

AFIS

1.8

1.8.1 AFIS

AFIS 3가 .

· /

· (interrupt)

· AFIS

1.8.2 AFIS

AFIS Uster AFIS ,

