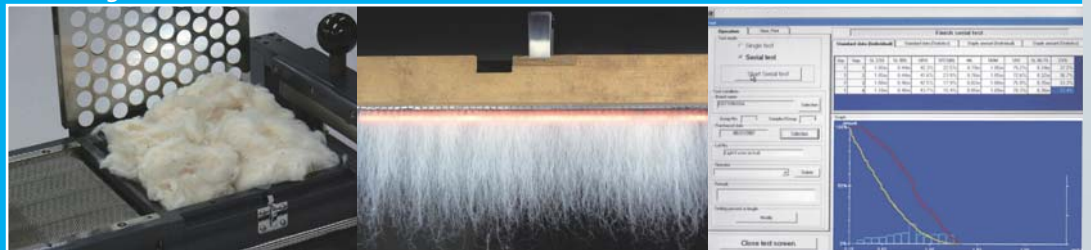


# KEISOKKI CLASSIFIBER

model KCF-V/LS

Fiber Length Distribution Tester



## CLASSIFIBER KCF-V/LS

**CLASSIFIBER** is a fiber length distribution tester for short natural and synthetic fibers up to 80 mm.

**CLASSIFIBER** accurately measures fibers nipped on the sampler comb by an optical method and automatically plots the Fibrogram, and then also the staple diagram and the histogram.

**CLASSIFIBER Model KCF-V/LS** is operated through a Windows PC. All the fiber length distribution measurements obtained are sent to, displayed on and saved into the Windows PC.



### What are obtained from KCF-V/LS?

#### Graphic data from each individual test

- Fibrogram
- Staple diagram
- Histogram

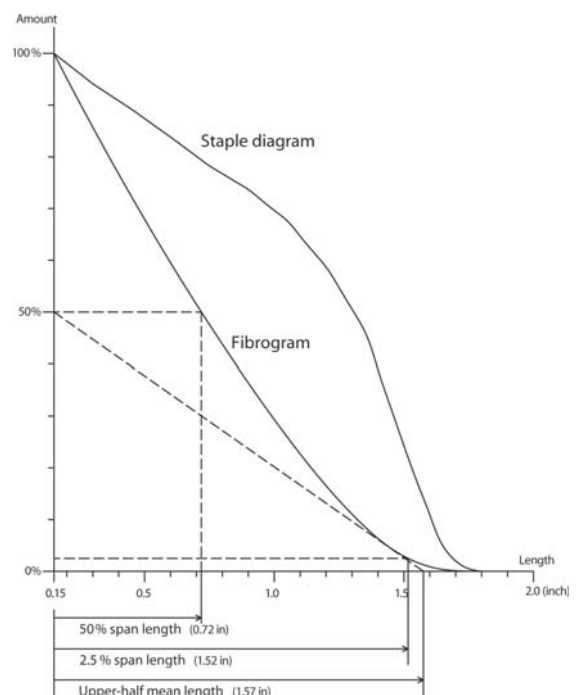
#### Numerical data from each individual test

- Mean length (ML)
- Upper-half mean length (UHM)
- 2.5% span length (SL 2.5%)
- 50% span length (SL 50%)
- 66.7% span length (SL 66.7%)
- Uniformity ratio (UR%)
- Uniformity index (UI%)
- Short fiber content (SFC%)
- L-percent and S-percent of fiber length

#### Statistics

- Mean
- Minimum (Min.)
- Maximum (Max.)
- Range (R)
- Standard deviation (s)
- 95% confidence limits (Q95%)

### Fibrogram and Staple diagram



**CLASSIFIBER KCF-V/LS** measures a fiber tuft or beard nipped on the sampler comb to plot the Fibrogram, from which the staple diagram is plotted. The Fibrogram geometrically describes useful length characteristics of the fiber population, for example, upper-half mean length, 50% span length, 2.5% span length, etc.

## Components

### Standard components

- Measuring unit : KCF/LS-ME



- Flat carding sampler : KCF/LS-SP



- Accessories : KCF/LS-AC



### PC system

- Windows OS, 7 or newer (32bit English ver.) fitted with serial port for RS232C
- Display unit (color, 1024 x 768 pixels)
- English keyboard and mouse
- Laser printer

\*Users are kindly asked to prepare the PC system at their local markets. If impossible, the manufacturer can provide it.

\*Windows must be the 32bit and English version. Otherwise, the operation of KCF-V/LS is not guaranteed.



### Options

- Sliver sampler : KCF/LS-SS



## Technical data

<b>Maximum fiber length:</b>	80 mm
<b>Unit of length:</b>	inch and mm
<b>Testing time:</b>	approx. 20 sec/test
<b>Measuring system:</b>	optical method
<b>Light source:</b>	homogeneous light by linear filament lamp
<b>Size and weight:</b>	KCF/LS-ME 490(W) x 130(H) x 420(D) mm and approx. 14 Kg KCF/LS-SP 600(W) x 190(H) x 275(D) mm and approx. 11.5 Kg
<b>Power supply:</b>	85-265 Vac and 47-63 Hz

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Group No.: 3

SL 2.5%	SL 50%	U%	SPC(N)	ML	UHM	U%	SL 66.7%	CV%
27.7mm	11.8mm	42.6%	15.13	20.7mm	27.3mm	15.8%	8.7mm	34.4%

5.0% 10.0% 15.0% 20.0% 25.0% < 6.0mm < 12.0mm < 18.0mm < 24.0mm < 30.0mm

32.0mm 30.4mm 28.8mm 27.2mm 25.6mm 0.0%

Amount

Group No.: 3

SL 2.5%	SL 50%	U%	SPC(N)	ML	UHM
28.1mm	12.4mm	44.1%	15.43	21.5mm	28.0mm

5.0% 10.0% 15.0% 20.0% 25.0% < 6.0mm

31.6mm 29.8mm 28.3mm 27.2mm 26.1mm 0.0%

Amount

**Keisokki** KCF-WLS version 1.0.4 (Full Scale version) KEISOKKI KOGYO CO.,LTD. Page 6

Purchased date : 08/27/2007  
Test date : 11/26/2007 12:53  
Operator :  
Remark :

Group No.: 1

SL 2.5%	SL 50%	U%	SPC(N)	ML	UHM	U%	SL 66.7%	CV%
31.2mm	10.0%	42.5%	17.8%	20.4mm	27.0mm	15.6%	8.6mm	35.3%

5.0% 10.0% 15.0% 20.0% 25.0% < 6.0mm < 12.0mm < 18.0mm < 24.0mm < 30.0mm

31.2mm 29.8mm 28.3mm 27.0mm 25.7mm 0.0%

Amount

**Keisokki** KCF-WLS version 1.0.4 (Full Scale version) COTTON-USA Page 1

**KEISOKKI KOGYO CO.,LTD.**

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Remark :

Group No.: 1

SL 2.5%	SL 50%	U%	SPC(N)	ML	UHM	U%	SL 66.7%	CV%
27.6mm	11.9mm	43.1%	18.7%	20.9mm	27.6mm	15.7%	8.8mm	36.6%

5.0% 10.0% 15.0% 20.0% 25.0% < 6.0mm < 12.0mm < 18.0mm < 24.0mm < 30.0mm

31.2mm 29.8mm 28.3mm 27.0mm 25.7mm 0.0%

Amount

**Keisokki** KCF-WLS version 1.0.4 (Full Scale version) KEISOKKI KOGYO CO.,LTD. Page 6

Purchased date : 08/27/2007  
Test date : 11/26/2007 12:53  
Operator :  
Remark :

Staple amount data

Group No.: 1

No.	5.0%	10.0%	15.0%	20.0%
1	31.2mm	29.8mm	28.3mm	27.0mm
2	31.9mm	30.1mm	28.6mm	27.2mm
3	32.4mm	30.6mm	29.0mm	27.7mm
4	32.0mm	30.2mm	28.6mm	27.2mm

Group evaluation

No.	5.0%	10.0%	15.0%	20.0%
n	4	4	4	4
Mean	31.9mm	30.2mm	28.6mm	27.2mm
Min.	31.2mm	29.8mm	28.3mm	27.0mm
Max.	32.4mm	30.6mm	29.0mm	27.7mm
R	1.2mm	0.8mm	0.7mm	0.7mm
s	0.5	0.3	0.3	0.3
Q95%	0.8	0.5	0.5	0.5

Group No.: 2

No.	5.0%	10.0%	15.0%	20.0%
1	30.8mm	29.0mm	27.4mm	26.2mm
2	31.8mm	30.2mm	28.4mm	27.2mm
3	32.7mm	31.0mm	29.3mm	27.7mm
4	31.4mm	29.7mm	28.2mm	26.8mm

Group evaluation

No.	5.0%	10.0%	15.0%	20.0%
n	4	4	4	4
Mean	31.7mm	30.0mm	28.3mm	26.8mm
Min.	30.8mm	29.0mm	27.4mm	26.2mm
Max.	32.7mm	31.0mm	29.3mm	27.7mm
R	1.9mm	2.0mm	1.9mm	1.5mm
s	0.8	0.8	0.8	0.6
Q95%	1.3	1.3	1.2	1.1

Group No.: 3

No.	5.0%	10.0%	15.0%	20.0%
1	30.6mm	29.0mm	27.7mm	26.4mm
2	30.4mm	28.9mm	27.5mm	26.4mm
3	32.0mm	30.4mm	28.8mm	27.4mm
4	31.6mm	29.8mm	28.3mm	27.1mm

Group evaluation

No.	5.0%	10.0%	15.0%	20.0%
n	4	4	4	4
Mean	31.2mm	29.5mm	28.1mm	26.9mm
Min.	30.4mm	28.9mm	27.5mm	26.4mm
Max.	32.0mm	30.4mm	28.8mm	27.2mm
R	1.6mm	1.5mm	1.3mm	1.0mm
s	0.8	0.7	0.6	0.6
Q95%	1.2	1.1	0.9	0.8

Total evaluation

No.	5.0%	10.0%	15.0%	20.0%	25.0%	< 6.0mm	< 12.0mm	< 18.0mm	< 24.0mm	< 30.0mm
n	12	12	12	12	12	2	12	12	12	12
Mean	31.6mm	29.9mm	28.3mm	27.0mm	25.7mm	0.6%	14.9%	41.2%		
Min.	30.4mm	28.9mm	27.4mm	26.0mm	24.7mm	0.0%	10.1%	34.3%		
Max.	32.7mm	31.0mm	29.3mm	27.7mm	26.4mm	0.7%	22.0%	48.7%		
R	2.3mm	2.1mm	1.9mm	1.7mm	1.7mm	0.7%	11.9%	14.4%		
s	0.7	0.7	0.6	0.5	0.6	0.4%	3.6	4.3		
Q95%	0.5	0.4	0.4	0.3	0.4	0.4%	2.3	2.7		

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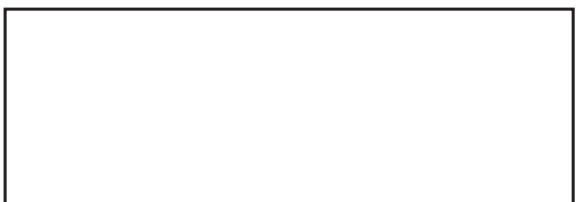
SL 2.5%	SL 50%	U%	SPC(N)	ML	UHM	U%	SL 66.7%	CV%
27.3mm	11.6mm	42.5%	17.8%	20.4mm	27.0mm	15.6%	8.6mm	35.3%

5.0% 10.0% 15.0% 20.0% 25.0% < 6.0mm < 12.0mm < 18.0mm < 24.0mm < 30.0mm

31.2mm 29.8mm 28.3mm 27.0mm 25.7mm 0.0%

Amount

\*The specifications and design are subject to change without notice.



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