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## SPIN5900 FILAMENT EVENNESS TESTER



### MODEL NO:

**SPIN5900**

### APPLICATION:

**SPIN5900 Filament Evenness Tester** is an essential instrument for controlling filament quality. It adopts capacitive detection to test the evenness of various filaments, can quickly measure and analyze linear density (mass) variations, realize high efficiency and accuracy as well as excellent stability and consistency.



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**FEATURE:**

- It adopts four capacitance testing slots to improve the test accuracy. The testing slot can be chosen automatically after users input the yarn count, improving test efficiency and reducing error.
- Automatic zero adjustment realizes one-key operation to complete test, making the operation more convenient and efficient.

Slot No.	Count Range (dtex)
1	440.1~1670
2	110.1~440
3	30.1~110
4	10~30



Mechanical twisting

- The test speed can be as max. as 800m/min.
- Mechanical twisting system guarantees the filament passing the slot steadily. The direction and speed of twisting can be set separately according to the filament variety, easy for controlling twist.

- Unique anti-winding device can prevent filament winding the roller.
- It adopts advanced digital processing technology, computer hardware & software technology and automatic controlling technology, to provide users accurate numerical results including the authoritative coefficient of variation  $CV_m\%$ ,  $U\%$  and also graphical presentations with curves, diagrams and spectrograms.



Anti-winding device

No.	CVm%	U%	AF
1	1.26	1.01	100.09
2	1.58	1.26	99.94
3	1.07	0.85	99.98
M...	1.30	1.04	100.00
Sd...	0.26	0.20	0.00
C...	19.60	19.65	0.08
Q...	0.64	0.51	0.00
Max	1.58	1.26	100.09
Min	1.07	0.85	99.94

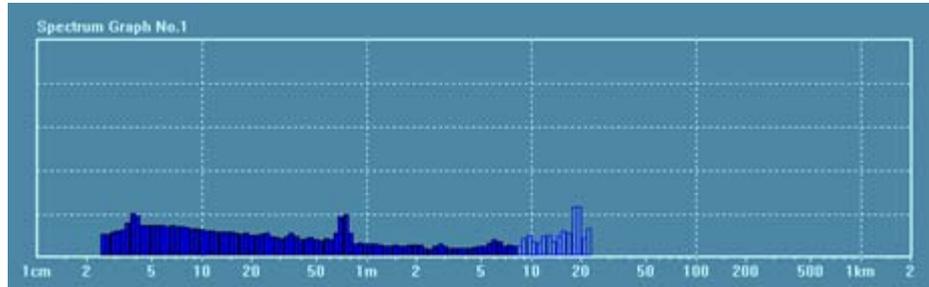
Test result



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- Accurate spectrogram, variance-length curve and linear density-frequency distribution diagram can be provided, while unevenness curve can be saved and playback.



Spectrogram

- Powerful statistical and analysis function can provide users annual and monthly product quality graphics and trend, which is the basis of scientific management.

### KEY SPECIFICATION:

- Capacitance testing slot: 4
- Test range: 10 dtex ~ 1670 dtex
- Test speed: 25, 50, 100, 200, 400, 800 m/min
- Test time: 10 sec ~ 20 min, can be settable
- CV<sub>m</sub>%, U% range: 0.2% ~ 100%
- Variation-length curve: Cutting length 1.7cm ~ 1000m
- Spectrogram: 170 channels
- Wavelength range: 1.7cm ~ 2000m
- Linear density histogram: -100% ~ +100%, +100% ~ +200%
- Twisting direction: S or Z
- Rotor speed: 1000r/min ~ 30000r/min, continuously adjustable
- Air pressure and flow: 0.4MPa ~ 0.6Mpa, 3m<sup>3</sup>/h ~ 10m<sup>3</sup>/h
- Ambient conditions: Temperature: 20±3°C, Humidity: 65±5%RH. No obvious vibration and ensure reliable grounding. The temperature and humidity must be maintained stable with no frequent fluctuation, in order to avoid any influence on the test result.
- Power supply: AC 220V, 50Hz, 400W



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- Gross weight: Approx. 120kg
- Package dimensions: 1cbm

#### STANDARD CONFIGURATION:

No.	Item	Quantity
1.	Main machine	1 set
2.	Yarn creel	1 set
3.	Computer	1 set
4.	Application software	1 set
5.	Printer	1 set

#### OPTIONAL CONFIGURATION:

No.	Item	Quantity
1.	Air pump	
2.	JWS-5A Hygrothermograph	
3.	L95-2 Hygrothermograph	
4.	FYI Lab air conditioning system	