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FANYUAN INSTRUMENT (HF) CO., LTD.
DOWELL SCIENCE & TECHNOLOGY (HK) CO., LTD.
ADD: TIANYUAN ROAD 9#, HIGH-TECH ZONE, HEFEI CITY, CHINA
POSTAL CODE: 230088
TEL: +86-551-68105003
FAX: +86-551-65232507
EMAIL: SALES@HKDOWELL.COM

SPIN5600 SERIES YARN EVENNESS TESTER



MODEL NO:

- SPIN5600
- SPIN5600H: Including yarn hairiness index test

APPLICATION:

Yarn evenness is the most important parameter that affects fabric appearance. **SPIN5600 Series Yarn Evenness Tester** adopts capacitance detection to test the evenness of sliver, roving and spun yarn. It can quickly measure and analyze linear density (mass) variations and defects, realize high efficiency and accuracy as well as excellent stability and consistency.



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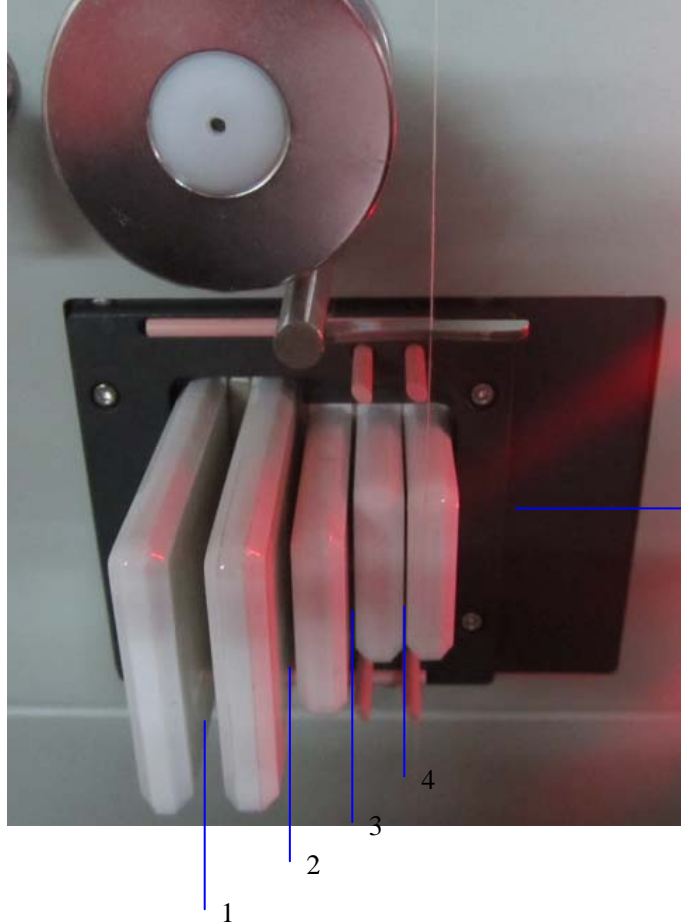
✓ Sliver



✓ Roving



✓ Spun yarn



Automatically choose testing slot

- 1 ~ 4: Individual capacitance testing slot for sliver, roving and spun yarn, making the test results more accurate.
- 5: The detector can move automatically to suitable position after users input the yarn count, making the test more efficient and fewer mistakes.



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FEATURE:

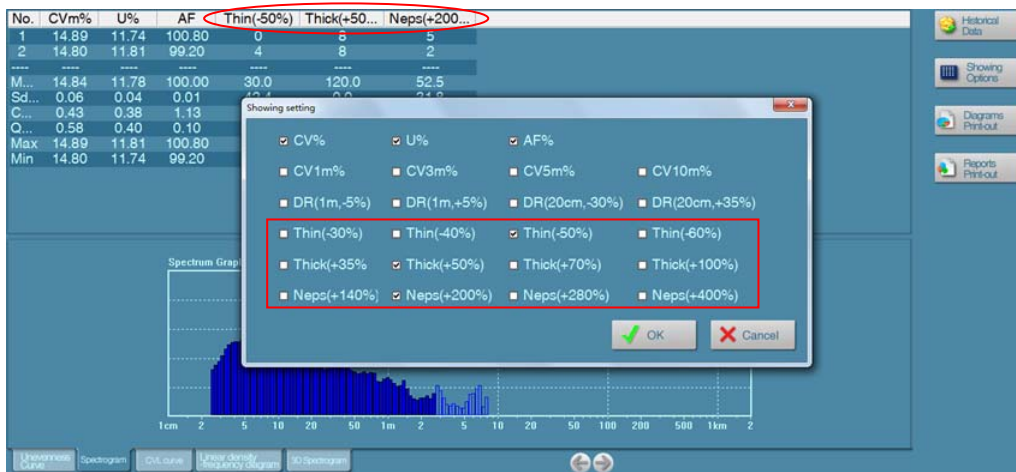
- It adopts advanced digital processing technology, computer hardware & software technology and automatic controlling technology, to provide users accurate numerical results including the authoritative coefficient of variation CVm%, U% and also graphical presentations with curves, diagrams and spectrograms.
It adopts capacitance detection to improve the test accuracy.
The test speed for spun yarn can be as max. as 800m/min.
Automatic zero adjusting in spun yarn test implements one-key operation to complete test, making the operation more convenient and efficient.
SPIN5600H is equipped with advanced test of yarn hairiness index, synchronization with the international standard.
Optional function of slub yarn test provides stable and detailed analysis to the problem of irregularity.
Optional function of yarn defects classification.



Unique roller anti-wind device

SOFTWARE:

- Output thin places, thick places and neps for 12 sensitivity levels in yarns.
Thin places: -30%, -40%, -50%, - 60%
Thick places: +35%, +50%, +70%, +100%
Neps: +140%, +200%, +280%, +400%

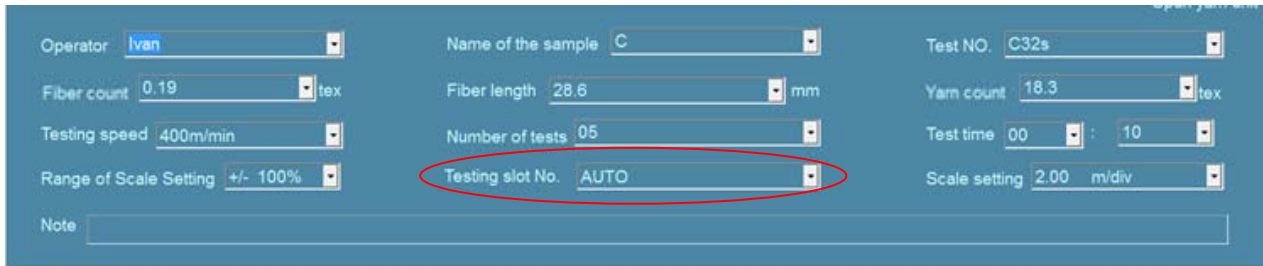




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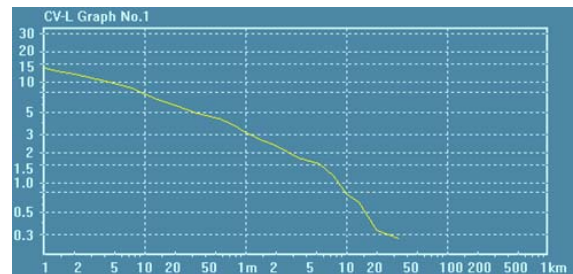
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- The testing slot can be chosen automatically after users input the yarn count, definitely improve the test efficiency and avoid mistake.



- Unevenness curve can be saved and marked out the position of yarn defects on it.
- Unique CV-L curve analysis can make real-time quantitative analysis for yarn's aperiodic unevenness and help users trace back to the produce process.
- Powerful statistical and analysis function can provide users annual and monthly product quality graphics and trend, which is the basis of scientific management.

No.	CVm%	U%	AF	Thin(-50%)	Thick(+50...)	Neps(+200...
1	14.22	11.22	97.10	5	19	16
2	14.13	11.15	102.37	3	15	12
3	14.23	11.33	99.07	2	11	11
4	14.26	11.36	101.47	4	11	14
----	----	----	----	----	----	----
M...	14.21	11.27	100.00	17.5	70.0	66.3
Sd...	0.05	0.10	0.02	6.5	19.1	11.1
C...	0.38	0.86	2.38	36.9	27.4	16.7
Q...	0.09	0.15	0.04	10.3	30.5	17.6
Max	14.26	11.36	102.37	5.0	19.0	16.0
Min	14.13	11.15	97.10	2.0	11.0	11.0



Left: Statistical Results

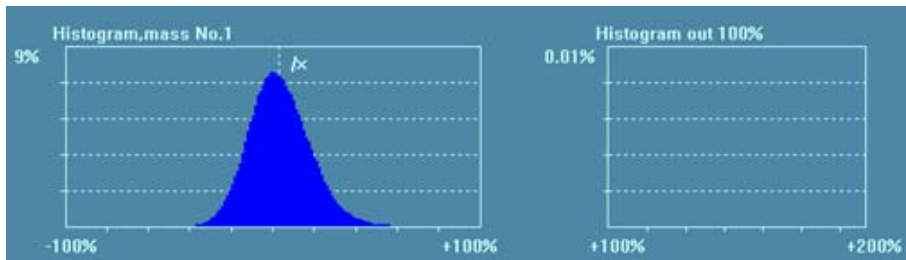
Right: CV-L Curve

Bottom: Unevenness Curve

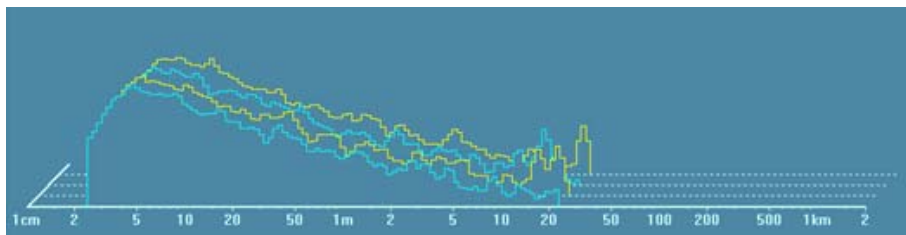


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Upper:
Spectrogram

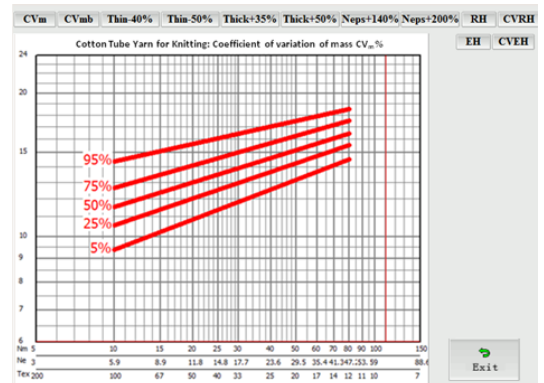


Middle:
Linear Density-Frequency
Distribution Diagram

Lower:
3D Spectrogram

- Expert analysis system can evaluate the yarn quality and provide users with analysis results of craft and equipment failure.

Item	5%	25%	50%	75%	95%
CV% %	12.870	13.971	14.907	15.907	17.251
tube CV% %	1.327	1.725	2.232	3.078	4.157
thin-40% 1/km	31.988	69.923	149.646	318.909	600.041
thin-50% 1/km	2.687	5.429	9.780	21.681	45.894
thick+35% 1/km	472.207	703.901	995.575	1479.648	2015.132
thick+50% 1/km	41.620	84.125	157.459	303.134	470.407
neps+140% 1/km	327.784	549.541	830.336	1378.227	1938.548
neps+200% 1/km	71.636	114.619	176.367	284.659	380.470
tenacity	22.167	19.693	17.714	15.903	14.266
tenacity CV %	5.388	6.988	7.791	8.646	9.597
elongation	8.549	5.993	5.555	5.207	4.834
elongation CV %	6.002	6.575	7.278	8.119	8.886



Query System for Yarn Quality Level

- Automatic alarm when yarn is snapped in the process of the test.



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KEY SPECIFICATION:

- Capacitance testing slot: 4
- Test range: 4 tex ~ 12 ktex
- Test speed: 4, 8, 25, 50, 100, 200, 400, 800 m/min
- Test time: 10 sec ~ 20 min, can be settable
- CV_m%, U% range: 0.2% ~ 100%
- Variation-length curve: Cutting length 1cm ~ 1000m
- Output four DR% value: DR (1m, +5%), DR (1m, -5%),
DR (20cm, +35%), DR (20cm, -30%)
- Spectrogram: 170 channels
- Wavelength range: 1cm ~ 2000m
- Linear density histogram: -100% ~ +100%, +100% ~ +200%
- Power supply: AC 220V, 50Hz, 300W
- 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.)
- Gross weight: Approx.140kg
- Package dimensions: 1.2cbm

STANDARD CONFIGURATION:

No.	Item	Quantity
1.	Main machine	1 set
2.	Spun yarn creel	1 set
3.	Roving creel	1 set
4.	Computer	1 set
5.	Application software	1 set
6.	Printer	1 set



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OPTIONAL CONFIGURATION:

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