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## YG029C SERIES FULLY AUTOMATIC ELECTRONIC SINGLE YARN STRENGTH TESTER



## MODEL NO.

YG029C-30

YG029C-60

YG029C-Z

## Application:

Fully Automatic Electronic Single Yarn Strength Tester is suitable for determining the breaking load and extension of single yarns. It does adopt CRE principle and automatically operated with pneumatic/magnetic clamp, provided with scales 0-6000cN force max.

## Related Standards:

STANDARDS	ISO 2062	ASTM D2256	GB/T3916, GB/T14344
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Note: this tester can conform to but not limit to all the standards above, for more standards conformance, please contact us.

## Features:

- It does adopt CRE principle and also can do the 10s and 20s certain time tensile test;
- Use 16bit Industry-grade MCU(Mitsubishi, Japan), 16bit A/D converter (Mitsubishi, Japan), more excellent anti-jamming, more excellent stability, more rapid data transference speed;
- Precision Panasonic DC servo motor and driver system, adopts PID control technology, low noise, stable running, and realize fully digital speed control and preset elongation speed continually;
- Equipped with the PC port, use PC can add more analysis functions with aid of specific software, all data and graph can be exported in WORD, EXCEL, WORDPAD format;
- Software with a friendly interface, provide real-time test result or previous test report, graphic, diagram, and can save test data to construct a database;
- Equipped with the printer port, test report can be directly printed out;
- Large LCD screen can directly display real-time test data;
- Special designed pneumatic clamp can satisfy the requirements of various kinds of test materials;
- Waste yarn can be sucked automatically to keep the lab environment clean;
- With fault self-diagnosis function, and notice the cause of malfunction automatically;
- Dynamic data sampling more than 1000Hz, most precisely to catch peak value and show property of textile material;

- Be able to preset tensile force;
- Software can online display of on-going test data (Like mean square value, average, max, min, etc.), shows the statistic value of broking strength, elongation rate, yield strength, yield elongation, rupture elongation and CV value;
- YG029C-Z is special design for testing Raw-silk.

#### Key Specification:

Type	YG029C-30	YG029C-60	YG029C-Z(Raw-silk)
Load range	3000cN	6000cN	0~999.9cN 0~6000cN
Load cell accuracy	$\pm 0.5\%$		
Gauge length	250mm, 500mm, or customize		
Pre-tension	1~100cN		
Elongation range	Max 80%		
Clamp speed	500~5000mm/min		
Testing times	1~400 times		
Yarn density	1~999.9 tex		
Power supply	Ac220V, 50Hz		
Dimension	550× 430× 1495mm(L×W×H)		
Weight	121kg		

#### Standard configuration:

No.	Item	Quantity
1	Main machine	1 set
2	Yarn guide device	1 set
3	Calibration weight, 1000cN	1 pcs
4	Air pipe	10 meter
5	Fuse, 2A 5A	1 pcs each

#### Optional Accessories:

No.	Item	Quantity
1	PC & Software	1 set
2	Printer	1 set
3	Air compressor	1 set