SPINNING AND FIBRE PREPARATION LABORATORIES

PROSORTER

Yarn Count Measurement and Analysis System

Measure linear density in yarn, roving, sliver and lap. Monitor count variation across specimens and compare test series in a single report.



1 mg
Balance readability

CV %
Count variation

80 mm
Thermal receipt

Precision at Every Stage. Confidence in Every Test.

From specimen to measurement

The system reads the mass of a specimen of known length. PROSORTER calculates its linear density from these two values.

01 Prepare the specimen

Reel yarn to the selected skein method. For sliver, roving and lap, specify the sampling method and specimen length.

02 Capture stable weight

Place the specimen on the balance. The software records the mass automatically when the reading stabilises.

03 Compare the results

Monitor count, deviation from nominal and specimen-to-specimen variation. Compare test series and generate reports.



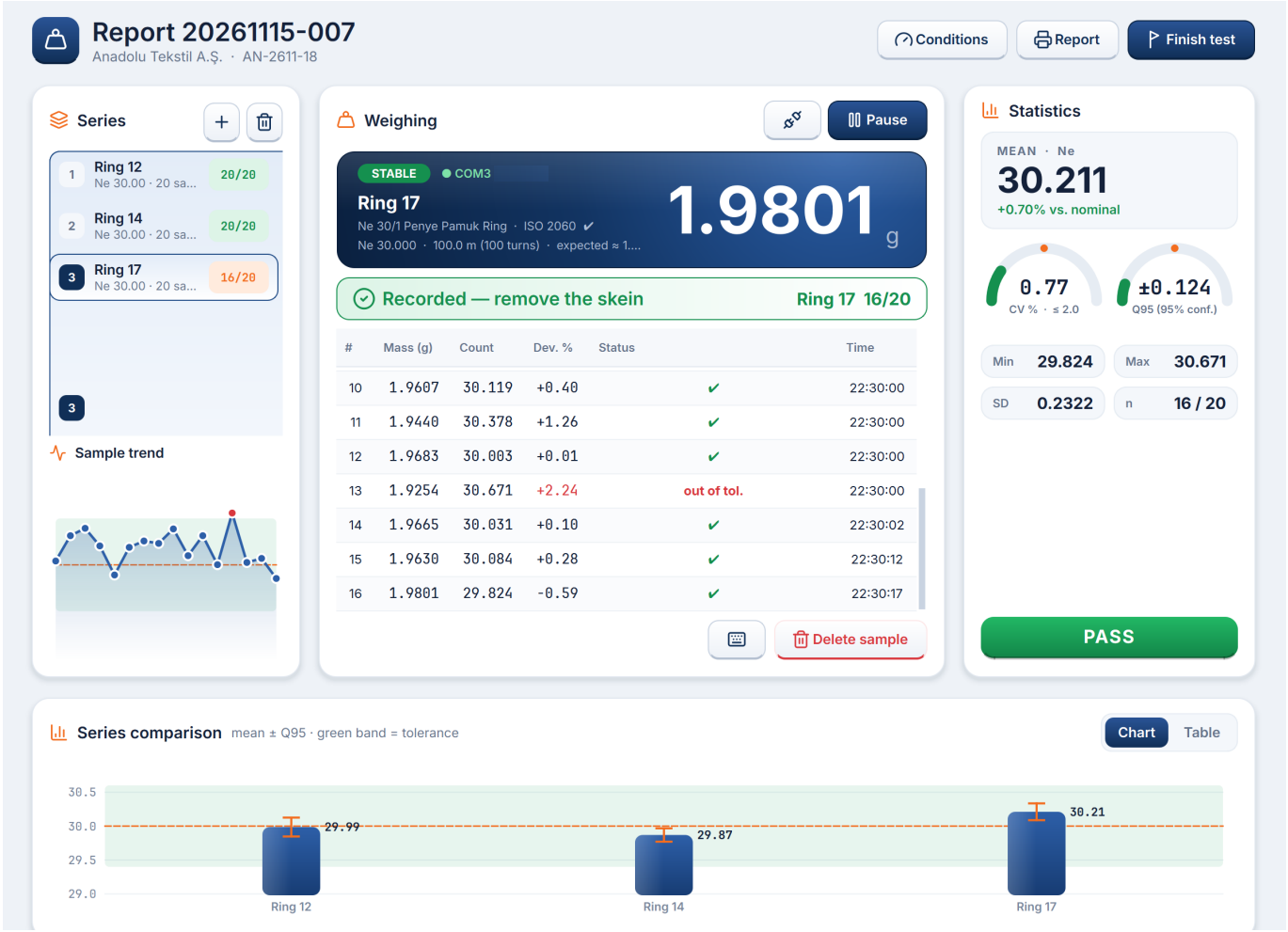
Placing the yarn skein on the precision balance.

Test methods and references

ISO 2060	Determination of yarn linear density by the skein method
ASTM D1907/D1907M	Determination of yarn number by the skein method
ISO 139	Standard atmospheres for conditioning and testing
ASTM D1909	Commercial moisture-regain tables for textile fibres

Live analysis and test management

Series mean, standard deviation, CV %, 95% confidence interval, minimum, maximum and deviation from nominal update during the test.



PROSORTER live weighing screen / sample test data

Balance detection and profile selection

Automatic detection scans serial ports. Operators can also select a compatible balance profile in the software.

Tolerance monitoring

Set count and CV limits in the test template. Comparison graphs show series that fall outside the selected tolerances.

Traceability

Test history, user permissions, calibration tracking, test templates and automatic database backups.

Software updates

Download signed releases in the application or install them from USB. The database is backed up before installation.

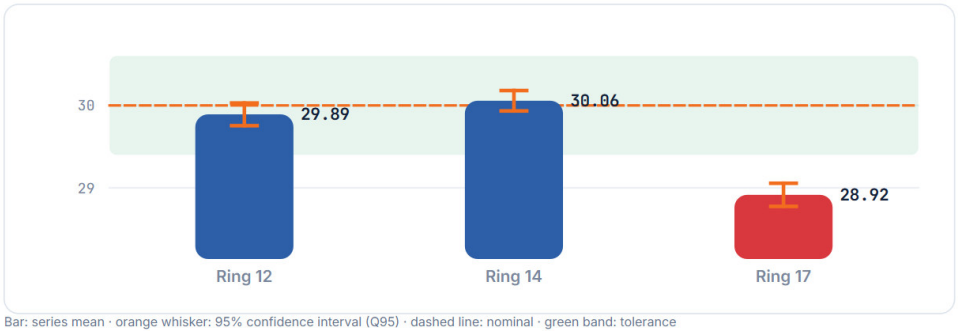
Specifications and reporting

A4 PDF, Excel and thermal receipt outputs. The interface and report languages can be selected independently.

Specimen materials	Yarn, roving, sliver and lap
Balance and interface	1 mg readability · RS-232 / USB serial port
Computer	Laptop · Windows 10 / 11 (64-bit)
Count units	Ne, Nm, tex, den, ktex, g/m, grain/yd, oz/yd
Thermal output	Rongta RP336 · 80 mm
Interface and report languages	Turkish, English, Russian

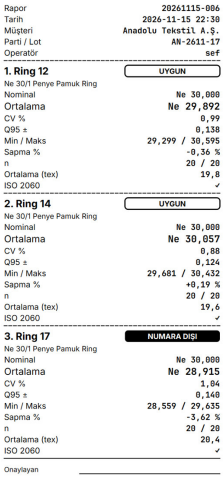
Series comparison

#	Series	Material	Unit	Nominal	n	Mean	CV %	Q95 ±	Min	Max	Deviatio...	Result
1	Ring 12	Ne 30/1 Peny...	Ne	30.000	20	29.892	0.99	±0.138	29.299	30.595	-0.36	PASS
2	Ring 14	Ne 30/1 Peny...	Ne	30.000	20	30.057	0.88	±0.124	29.681	30.432	+0.19	PASS
3	Ring 17	Ne 30/1 Peny...	Ne	30.000	20	28.915	1.04	±0.140	28.559	29.635	-3.62	COUNT OUT



Bar: series mean · orange whisker: 95% confidence interval (Q95) · dashed line: nominal · green band: tolerance

Series comparison from an A4 report · sample data



Rapor 20261115-006
Tarih 2026-11-15 22:30
Müşteri Anadolu Tekstil A.Ş.
Parti / Lot AN-2611-17
Operatör sef

1. Ring 12 — UYGUN
Ne 30/1 Penye Pamuk Ring
Nominal Ne 30,000
Ortalama Ne 29,892
CV % 0,99
Q95 ± 0,138
Min / Maks 29,299 / 30,595
Sapma % -0,36 %
n 20 / 20
Ortalama (tex) 19,8
ISO 2060 ✓

2. Ring 14 — UYGUN
Ne 30/1 Penye Pamuk Ring
Nominal Ne 30,000
Ortalama Ne 30,057
CV % 0,88
Q95 ± 0,124
Min / Maks 29,681 / 30,432
Sapma % +0,19 %
n 20 / 20
Ortalama (tex) 19,6
ISO 2060 ✓

3. Ring 17 — NUMARA DIŞI
Ne 30/1 Penye Pamuk Ring
Nominal Ne 30,000
Ortalama Ne 28,915
CV % 1,04
Q95 ± 0,140
Min / Maks 28,559 / 29,635
Sapma % -3,62 %
n 20 / 20
Ortalama (tex) 20,4
ISO 2060 ✓

Onaylayan _____

Excerpt from an 80 mm receipt

Sales enquiries
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