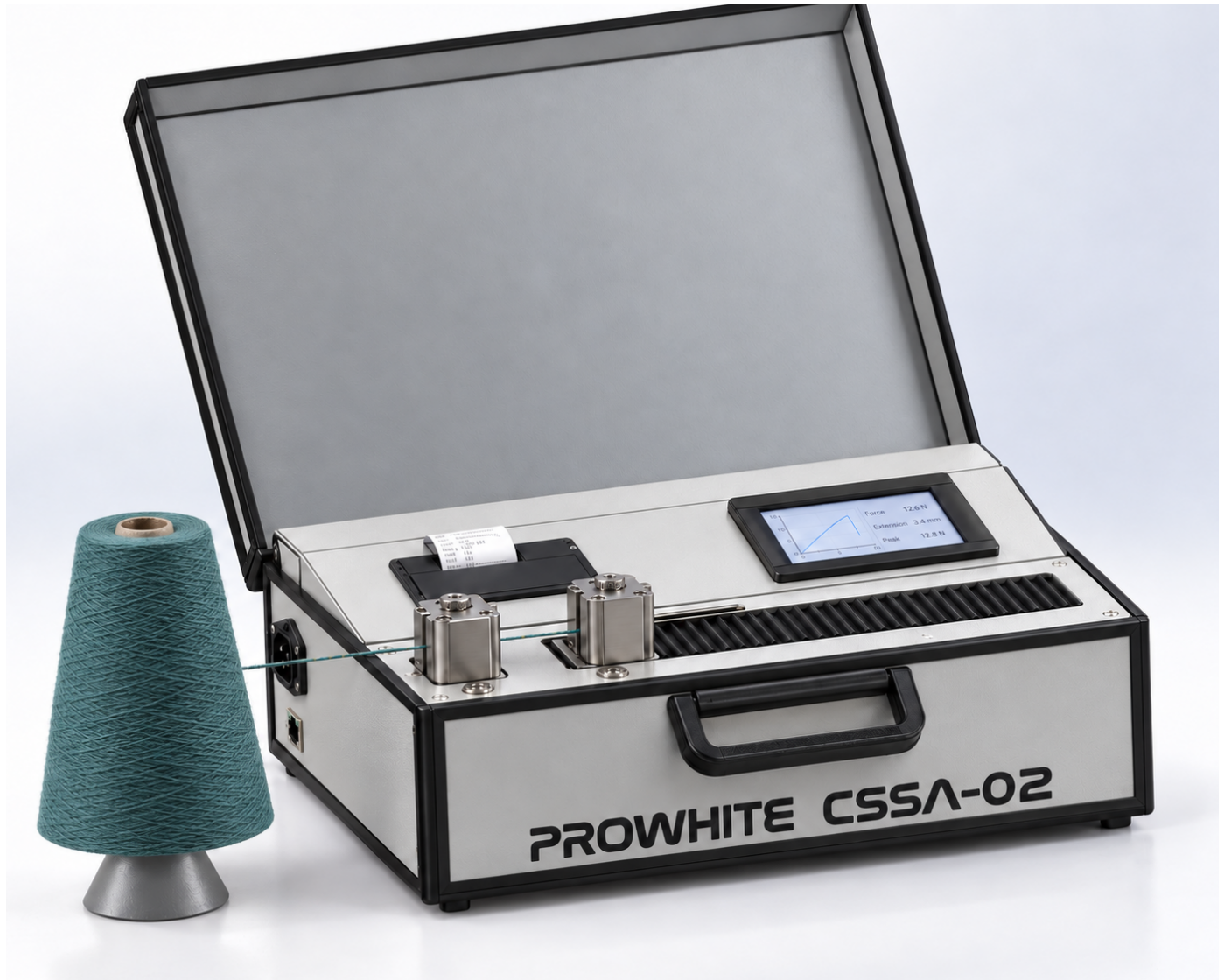


SUITCASE TEST SYSTEM

Portable yarn & splice strength tester

Measure breaking force and elongation of parent yarns and spliced joints. Compare splice performance with the reference yarn and assess results directly on the production floor.

**60 N**

Force capacity

250 mm

Gauge length

44%

Maximum elongation

Test at the machine. Evaluate on one screen.

A 4.3-inch touchscreen HMI, automatic grips, Ethernet connectivity and an integrated mini printer support portable testing and reporting.

[REQUEST A QUOTE](#)

Technical specifications

Parent yarn and splice testing using the constant rate of extension (CRE) principle.

Force capacity	60 N / 6,000 cN
Initial gauge length	250 mm
Usable extension travel	110 mm
Maximum elongation	44% (at a 250 mm initial gauge length)
Crosshead speed	Adjustable up to 1,000 mm/min
Specimen grips	Automatically closing electromagnetic grips
Pretension	Adjustable, automatic
Control display	4.3-inch touchscreen HMI
Communication	Ethernet port
Printer	Integrated mini thermal printer, RS232 interface
Measurements & calculations	Breaking force, elongation, RKM, splice strength ratio
Statistics	Minimum, maximum, mean and CV%

Testing and evaluation

01

Parent yarn

Breaking force, elongation and RKM calculation using yarn count.

02

Splice comparison

Comparison of spliced yarn results with the reference parent yarn.

03

Winding-unit assessment

Evaluation of splice results by winding unit.

Reference test methods

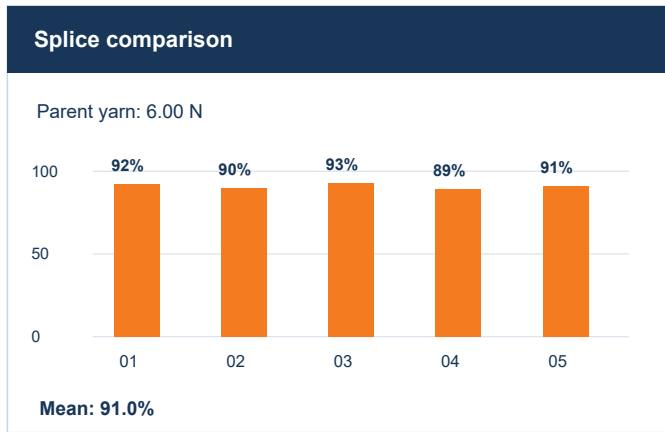
ISO 2062 | ASTM D2256/D2256M

Test speed, pretension, specimen preparation and conditioning follow the selected method. For ISO 2062, a 250 mm gauge length is used under the conditions permitted by the standard or by agreement between the parties; the corresponding basic test speed is 250 mm/min.

Yarn count is entered for RKM calculation. Application suitability depends on specimen force, elongation and secure gripping.

PC software

Monitor test data over Ethernet, compare parent yarn and splice results, archive measurements and prepare reports.



Test report	
CSSA-02 / DEMO-026	
02.10.2026 30 tex n = 5	
Parent mean	6.00 N
Splice mean	5.46 N
Strength ratio	91.0%
CV	1.74%
PDF report CSV data	

Test monitoring

View the force-extension curve, breaking force and elongation results on one screen.

Comparison and statistics

Assess splice strength against the parent reference with mean, minimum, maximum and CV%.

Records and reporting

Archive results with specimen and lot information; PDF reports with graphs and statistics, plus CSV data export.

Illustrative software interfaces and sample data are shown. These visuals are not records of an actual test.