

**PROWHITE<sup>®</sup>**  
**TEST EQUIPMENT**

# About Us

PRO-SER has been producing test equipments and auxiliary test equipments at BS, DIN, ISO, AATCC standards since 1998 till present.

PRO-SER, which offers the entire product portfolio to the end users with the PROWHITE brand, reaches its customers directly to different countries or through its dealers.

PRO-SER company which is formed by combining the founders of the company Seven Yılmaztürk and Cengiz Yılmaztürk's experiences in technology, textile, education and food fields. Today, PRO-SER has become an international company that has been recognized all over the world with its expert staff and wide technological capability. Besides standard testing equipments PRO-SER has the capacity to produce new technological test equipments thus became a solution oriented partner to many other companies all over the world.

The production process of products is done with strict discipline standards in order to guarantee 100% compatibility and continuity. We would like to thank through this catalogue over 3000 customers whom have been trusting and working with us since 1998.





## Yarn Testing

## YARN STRENGTH TESTER



It is used to measure the resistance of yarn, cable and similar products. The maximum force is 50 kgf (500 Newton). It has features of reading maximum rate of breaking off. The device saves resistance of sample which is pressed between jaws. Speed of breaking off process is set automatically by speed adjustable motor. Device has features to measure extension (0.1 mm sensitivity).

Breakout jaws can be selected as manual or pneumatic controller in order.

Length is 1000 mm except jaws. It is single column model. Measurement of device is with load cells. It has USB output.

PC, printer and software are available and are offered as an option

### Standards

BS EN 10002-2, ASTM E-4, DIN 51221-1

I-001A

## AUTOMATIC YARN FEEDING STRENGTH TESTER



It is used for strength, elongation and RCM measurement in yarn and similar products. The maximum force is 50 kgf (500 Newton). Maximum value reading capability applied at break.

The unit has an automatic feed unit for 10 bobbins.

Thread jaws are pneumatic.

The device has a touch screen

The device records the tensile strength in gf or cN of the specimen compressed through the jaws.

The device has the capability to measure the elongation. (With a sensitivity of 0.1 mm) Movement length excluding jaws: 1000 mm. The device is single columned. Instrument measurement is Load Cell with electronic load cell. USB computer communication output is available as standard.

Yarn Testing Equipment

### Standards

ISO 2062, TS EN 150 2062, ASTM D2256, ASTM D885, ASTM D76

## MOISTURE METER



Demonstrates the percentage of humidity held by objects with a high sensitivity and accuracy. Showing the humidity percentage of textile materials, namely cotton bails, plait fabrics and woven fabrics, thread bobbin, warps, etc... To provide highest level of quality and commercial efficiency as well as providing inconsistencies at weight computation.

It is used with a great reliability at agricultural product, grain seed purchases, during fermentation of plants such as tobacco and tea at feed grain industry and some other areas.



*Roller Electrode*



*25 mm. Electrode*



*Holder*



*Cable*



*175 mm. Stab Electrode*



*100 mm. Electrode*

## EVENNESS TESTER

Made of natural and synthetic fibers; It is used for measuring many parameters like yarns, rovings and slivers evenness (U%, CV%), thin thick place, neps count, periodical errors, hairiness measurement and entanglement and durability. The computer is in complete set with the Application-Analysis Program and Printer. The built-in humidity and temperature measurement sensors on the device minimize measurement and comparison errors.

### Options:

I006-L: Laser Sensor Module (for Synthetic Yarn Measurement)

I006-C: Capacitive Sensor Module (for natural fiber and yarn measurement)

I006-H: Hairiness Measurement Module

I006-P: Number of entanglement and Retention Module

I006- D: Automatic cop changer, Automatic yarn feeder unit and 24 sample-quality jumper



### Standards

ISO 16546, ISO 2649, ASTM D1425, IWTO-18

## YARN SAMPLE WINDERS

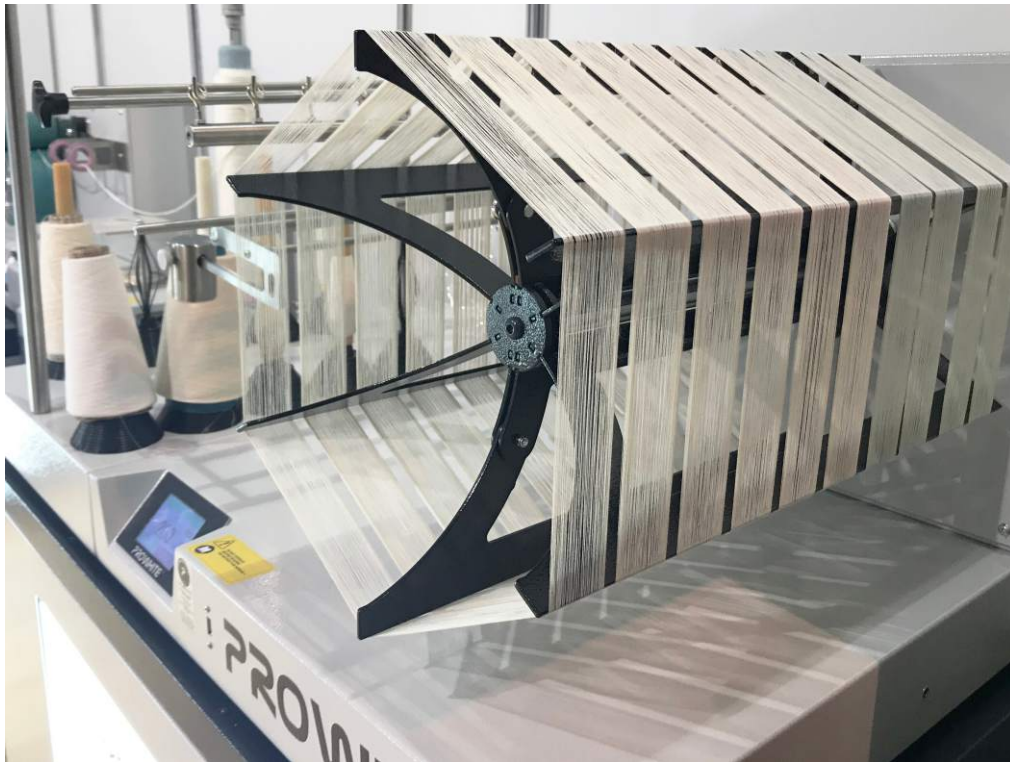


Device uses for prepare regular , fast and repeatable yarn sample winders. Device has electronic control and double motor. The front and back speed settings can be made digitally to create the desired speed combination according to yarn thickness.

Device can winding 50 different yarn to same card. The winding length can be adjusted electronically between 1 to 135 mm . It is available for labaratory practices and professional windings. Precise adjustment possibilities allow the closest specimens to be winding to the fabric effect



## WRAP REEL



For operations such as thread number assignment or dyeing tests, it is used to establish hank of predetermined length. It has an electronically controlled engine. The wheel's circumference can be ordered as 1 meter, 1 yard or 1.5 yards. Through the liable arm, the hank can easily be removed from the device. The device is equipped with measurement safety conditions and offered with thread stand enabling simultaneous winding of 10 different threads.

**I008 M** : Manuel Wrap Reel (5 Positions)

**I008 A** : Automatic Wrap Reel (10 Positions)

## Standards

ISO 2060, BS 2010, ASTM D1907/2260 DIN 53830

## PROSORTER YARN COUNT SYSTEM

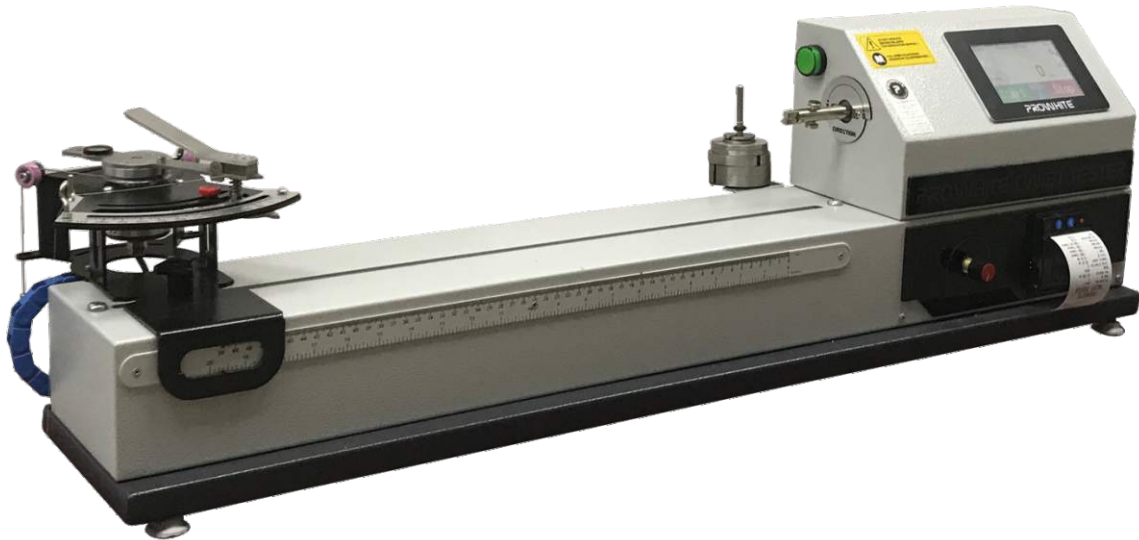


It has numerous features such as textile scale and software (thread number meter), Tex, Denier, NM, NEC, CV, averaging. The length options are 3yd, 7yd, 120yd, 840yd, 2m, 10m, 100m and 500m. The offered applications are arithmetic average Standard deviation (AVERAGE) highest and lowest values, upon request sends the information to a computer or printer and many other weighing features.

### Standards

ISO 2060/3801, BS 2471, BS EN 12127, BS EN ISO 2060, IWTO 22-82, IWSTM 13, ASTM D 1907/2646/3776

## TWIST TESTER



It is used to measure the twist measurement for single and double coated threads. Open-end yarn measurement module can be offered as optional. It has a digital indicator and an electronically speed controller. Choice between S and Z twist can be made. It can be adjusted for a measurement length between 10 and 500 mm. Provides high accuracy by taking the average.

The pre-stress calculation can be made through the device.

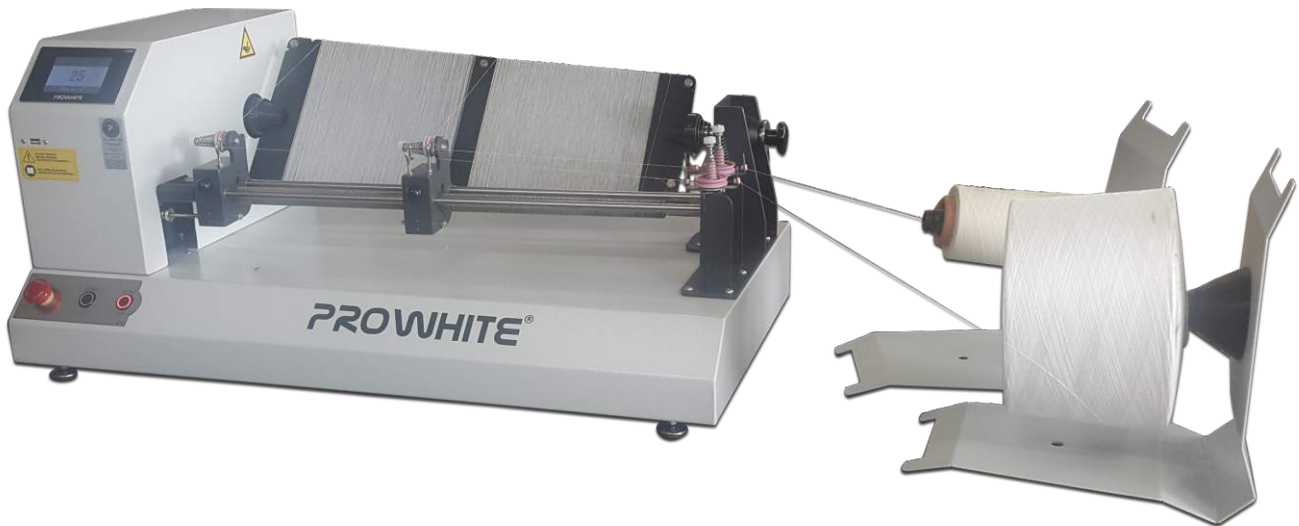
All operations can be directed easily through the PLC controlled operator panel. USB computer data output is the standard.

Printer and twist analyze software can be supplied optionally.

### Standards

ISO 2061, BS 2085, ASTM 1422/1423, DIN 53832, IWTO 25-70

## YARN EXAMINING MACHINE - CONICAL BOARD



The conical black or white board is used for detecting non-smoothness, feathering and other errors at the thread sample by winding it at predetermined extent and range. It can wind at variable speed from 8 to 19 windings per centimeter.

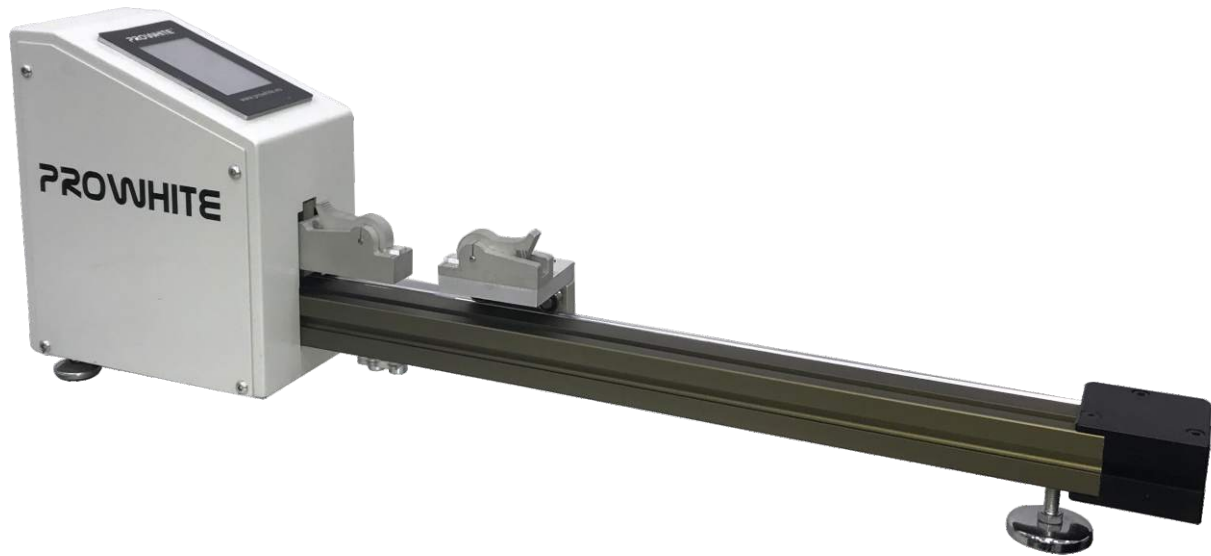
One white conical board is given with the device as standard. The Standard photographs ASTM which are required to compare can be supplied optionally. ASTM photographic yarn view standard

### Standards

ASTM D2255

I-014

## CRIMP TESTER



Yarn Testing Equipment

Device uses to accurately measure the length of yarn samples taken from woven or knitted fabrics under known tension.

It works according to the principle of correcting the applied tension.

Tension can display digitally. Correction Tension is provided by a manual moving clamping jaw.

Intended amount of pre-tension can applied on the sample yarn.(0 to 500g).

At the end of the process, the initial length of the sample and the length after pretensioning are displayed digitally on the screen. (max 1250 mm).

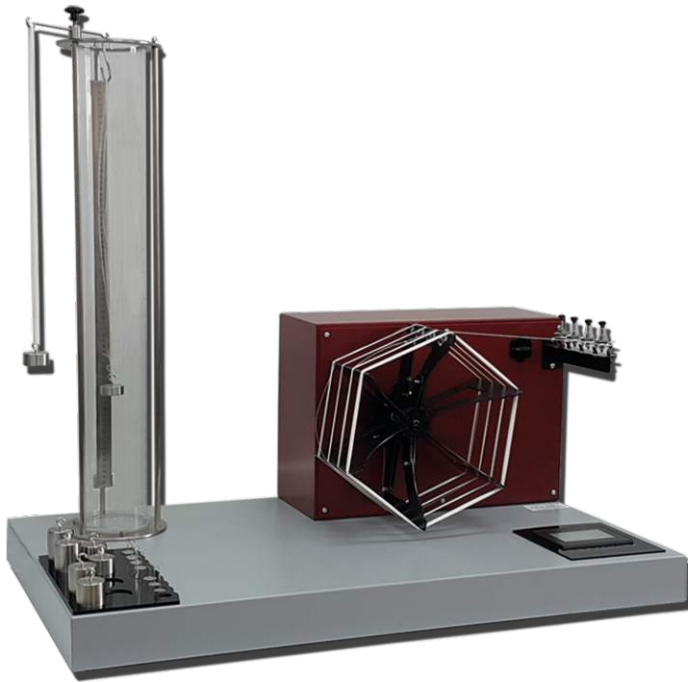
Its available differend size.

Values can display on PC or printed with RS323 mini-printer.

### Standards

ISO 72-11-5, ISO 7211-3, ASTM D3883

## CRIMP PERCENTAGE TESTER



*Water*



*Air*

The device is used to determine the percentage of crimp of textured synthetic yarns. Deliberately suitable for nylon textured yarns for stockings. Equipped with a Plexiglas cylinder to be filled with water, skein holder millimetre bar with 1 mm accuracy.

Pretension weights and an automatic wrap reel for single yarn are supplied with device.

Pretension weights with double hook: 3 g, 4 g, 5 g, 6 g, 7 g, 8 g, 9 g, 10 g  
Pretension weights with single hook: 100 g, 150 g, 200 g, 250 g, 300 g, 350 g, 400 g, 450 g, 500 g

### Standards

BS 6663

## SHRINKAGE TESTER



Device is used to measure the crimp parameters for texture yarns. It is fully automatic and PC controlled. It has 36 positons and every positon has 2.5 cN pretension. Maximum speed is 8.000 mm/min. Applied load can be chosen 2.5 to 2500 cN. Load applies automaticly. Length measurement accuracy is 1  $\mu$ m.

The Dry Air Heating Cabinet is provided with the device. The temperature range of the heating cabinet can be set between ambient temperature and 300 ° C. The hinge allows the hanger assembly to be easily mounted

### Standards

ASTM D4031, ASTM D2259, DIN 53866, DIN 53840, EN 14621

## YARN FRICTION TESTER



This machine determines the friction coefficient of yarns during the friction to metal surface.

This machine calculates the friction coefficient of yarns by friction angle of 360°. The speed of the machine is between 0-200 m/min. The pre-tension is adjusted by pretensioner. Yarn delivery is provided by bobbin creel. And this machine has a waxing unit.

Pretension can be seen on the screen. And, pretension value can be calculated on the PLC screen.

## Standards

ASTM D 3108, TS 7475

**some of our references**





ETİ MADEN İŞLETMELERİ  
GENEL MÜDÜRLÜĞÜ



**AKSA**



Valued Quality. Delivered.



**KNAUF**

**Setas**  
COLORCENTER



**TAPIDOR**

**SASA**

NOTTINGHAM  
TRENT UNIVERSITY



ÇSGB

T.C. ÇALIŞMA VE  
SOSYAL GÜVENLİK  
BAKANLIĞI

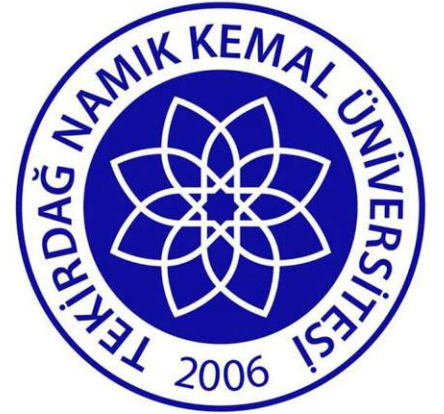
YÜNSA

SGS



Dunapack Dentaş  
Packaging

LC Waikiki



CHT

SMART CHEMISTRY  
WITH CHARACTER.



merinos®

KARTAL  
CARPETS



**PRO-SER LTD**

Ikitelli O.S.B.Giyim Sanatkarlari San.Sit.  
2.Ada B Blok Kat:5 No:511 Basaksehir ISTANBUL TURKEY  
+90 212 671 02 58 pbx. info@prowhite.eu  
www.prowhite.eu