

PROWHITE

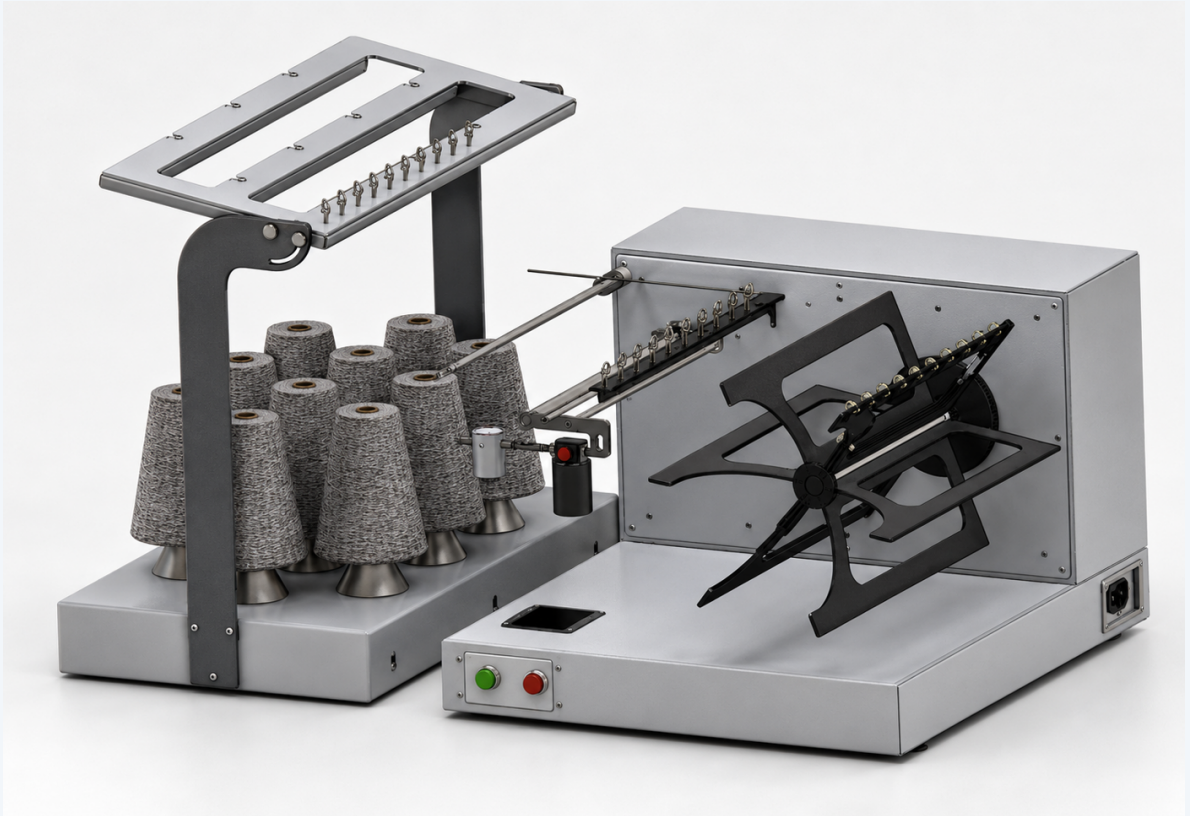
TESTING INSTRUMENTS

I008 SERIES

Automatic Yarn Wrap Reel

Converts 10 yarn samples simultaneously into skeins in a controlled manner, according to the fixed reel circumference of the selected model and the programmed number of revolutions. Supplied as a complete set with the creel and yarn-guiding system.

- Preparation of fixed-length skeins for yarn count determination
- Uniform samples for laboratory dyeing, shade development and lot comparison
- Equal-length yarn bundles for carpet-yarn pom-pom and shade-card preparation
- I008-m, I008-y and I008-1.5y: reel circumference options of 1 metre, 1 yard and 1.5 yards

**10**

Samples wound simultaneously

2-9999

Programmable revolutions

20%-100%

Adjustable winding speed

3

Reel circumference models

Controlled and repeatable skein preparation

A colour display and physical-key embedded controller manage the revolution and speed settings. The synchronized traverse supports uniform yarn distribution across the reel, while the system decelerates and stops automatically when the target count is reached.

01

10 SAMPLES

Ten yarns are wound simultaneously through separate guides using the same revolution and speed settings.

02

MULTI-PURPOSE PREPARATION

Supports yarn count, dyeing, strength skein, carpet pom-pom and shade-card sample preparation.

03

SYNCHRONIZED TRAVERSE

The ten-guide traverse runs in proportion to the winding motion to produce uniform samples.

04

PHYSICAL CONTROLS

Colour display, five physical keys and separate START/STOP buttons provide straightforward operation.

TECHNICAL PARAMETERS

Product codes	I008-m I008-y I008-1.5y
Reel circumference / revolution	I008-m: 1 metre I008-y: 1 yard I008-1.5y: 1.5 yards
Winding capacity	10 yarn samples simultaneously
Revolution setting	2-9999 revolutions
Speed setting	20%-100% in 1% increments
Control / interface	Colour display, five physical keys and an embedded industrial controller; separate START and STOP buttons; Turkish / English
Motion system	1.8° stepper motors for the reel and traverse; reel drive resolution: 800 pulses/revolution
Yarn distribution	Synchronized ten-guide traverse; motion at one-quarter of the reel pulse value
Revolution counting	Proximity sensor; 1 revolution = 1 pulse
Reel construction	Six-arm reel, hinged spring-loaded locking arm and 10 spring-loaded yarn holders
Operating sequence	Automatic homing at start-up; controlled deceleration near the target and automatic stop
Power supply	220 V AC, 50 Hz; shared 24 V DC power supply for the motors; protective earthing required
Related methods	ISO 2060 and ASTM D1907/D1907M skein methods for linear density; sample preparation for skein breaking strength according to ASTM D1578

STANDARD SCOPE OF SUPPLY

- I008 automatic yarn wrap reel main unit
- 10-position cone creel
- Ceramic guides, yarn-guiding rings and tensioning assembly
- Ten-guide synchronized traverse mechanism
- Turkish operating documentation and 12-month manufacturer warranty

APPLICATIONS

- Fixed-length skeins for yarn count and linear-density determination
- Samples for laboratory dyeing and recipe development
- Yarn bundles for carpet-yarn pom-pom and shade-card preparation
- Uniform samples for skein strength testing
- Lot, supplier and shade comparison; R&D; and process control

Note: The I008 prepares skeins or yarn bundles. Dyeing, weighing, strength testing, cutting, tying and final pom-pom forming operations are performed using the relevant auxiliary equipment. Conformity with a standard should be assessed by verifying the selected model, tension, speed, sample length and all current method requirements together. Technical specifications are subject to change without prior notice.