

STA BRANCA ELECTRONIC AUTOMATIC TWIST-TESTER

WITH HMI PANEL OPERATOR N°61s



This instrument is used to determine twisting values of single and twisted yarns in compliance with standard **UNI EN ISO 2060 - ISO 2061 - ASTM D1423 - ASTM D1422**.

An inductive sensor stops untwisting and re-twisting automatic system when the test is over. Black cylindrical support and magnifying glass used to check behaviour of yarn under examination.

Test length variable from 1 to 50 cm. and from 1 to 20 inches.

Special types for test on 1 or 2 m. length.

Provided with readout HMI panel operator displaying for:

- Revolutions up to 10000;
- Highest and lowest value of performed tests;
- Stored Data for each Test process up to 20 records;
- Maximum, minimum and average calculations;
- Standard deviation and C.V. %;

Data output in RS 232 with interface for personal computer with auxiliary software and ASCII printer available on request.

TECHNICAL SPECIFICATIONS

| | |
|-------------------------------|--------------------------------------|
| Reading of revolution number: | HMI Panel operator |
| Pre-tension: | up to 88 gr. according to yarn count |
| Rotation speed: | 0-3000 r.p.m. |
| One phase supply: | voltage to be specified |
| Dimensions: | 1050 x 260 x 280 mm. |
| Net weight: | 24 Kg. |

NB: *On request models equipped with more length and particular pre-tension value;*



S.T.A. BRANCA IDEALAIR di Branca Barbara & C. S.a.s.

21020 Mercallo Via Torino, 583/6 VARESE ITALY Tel.0331 968.333-130 Fax 0331 968281 E-mail info@brancaidealair.it

TEST PROCEDURES **STANDARD VERSION** :

- Single Yarn Test (Untwist-Retwist method);
- Dual Yarn Test (Folded yarn);
- Schutz Method (math formula) ;
- Manual control;

Included in the **SPECIAL VERSION** :

- Direct counting method (Untwist method);
- Multi-level yarn tests (Folded yarn up to 5 levels);
- Multi-bobbin test analyses (Single, Direct Counting, Multi-level (folded) yarn tests);

Print out of tests results stored data where the operator can enter useful information as:

- Company, country, state;
- Operator, Instrument Nr;
- Yarn length;
- Pretension weights;
- Auxiliary notes;

Inside the test report are reported:

- Twisting direction (S/Z);

ANALYSES CALCULATIONS:

- Minimum value; - Delta (Max-Min);
- Maximum value; - CV(%);
- Average value; - STD deviation;

The results of all tests are also shown in Twisting/meter ;

Test length variable from 1 to 50 cm. and from 1 to 20 inches.

Special types for test on 1 or 2 m. length.

Provided with readout displaying for:

- Motor speed; - Selection of directions;
- Rounds counter; - Complete set of function switches for each operation;
- Test Method reference;

For **STANDARD** version:

- Stored data 20 tests with Single Yarn test;
- Stored data 20 tests with Dual Yarn test;

Included in the **SPECIAL** version:

- Stored data 20 Tests with Multi-level yarn tests;

Data output in RS 232 with interface for personal computer Data storage and separate ASCII printer available on request.



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