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1 - Main functions

The wire scraping bench tests the electrical wire cladding submitted to reproducible friction forces.

The test is performed with a tool that scrapes the cable, with a constant force.

The cable is mounted on an oscillating rim performing a cyclic back and forth movement, adjustable from 0 to 120 cycles / min.

The force values are adjustable from 1 to 50 N.

The tests can be configured, through the HMI control.

The test ends when the programmed number of cycles is reached or up to the deterioration of the sheath (continuity test).

The removable calibration station can periodically check the effort values.

The technologies used for the design of this machine allows a wide range of use (cable Ø from 1 to 14mm; effort 1N to 50N; speed 0-120 cycles / min).

This machine is designed for a longer life and minimal maintenance. It requires only periodic cleaning of the tool.

The tool made of hardened steel has four working edges for an extended service life.

2 - Specifications

The main features of the position are

- Treated Steel Tool (60HRC)
- Linear ball bearing guiding
- Setting of the effort pressure by precision regulator.
- Brushless gearmotor
- Removable calibration station

3 - Test overview



4 - Machine technical specifications

CHARACTERISTICS (without options)	VALUES
Wire Dimension	Ø1 to Ø14
Force Range	1 to 50N
Force resolution	1N
Force Actuator	Double effect positioner
Motion actuator	Brushless motorgear
Test frequency	0 to 120 cycles/min
Dimensions	430 x 440 x H 630
Repetability	± 0.2N
Calibration station	Removable : structure and dynamometer
Energy	230 Vac / Compressed air 6 bars dry and filtered
Mass	45 Kg

The measuring devices are defined according to the customer needs

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