

CPT 050 – Coil Property Tester

Test equipment for analysis of take-off characteristics of elastic yarn



General features:

- Measurement of take-off characteristics of elastic yarn
- Take-off speed is manually adjustable in a range from 0 - 200 m/min
 - Adjustment by multi-turn potentiometers
 - Three adjustable preferred speeds selectable with a rotary switch
- Tension is recorded during unwinding the coil
- typical tension level: 10cN
- PC-based data acquisition and analysis with indication of tension F_Z :
 - analog display with y-t-Graph and digital display as momentary value
- Statistical analysis from tension F_Z after measurement:
 - **Characteristic value to view the quality of the take-off process (y^2 based calculation)**
 - Mean value, peak values min/max, standard deviation
 - Peak counter (according to $\pm \Delta y$ of mean value)
- Frequency analysis (FFT) of tension signal
- Export function to Ms Excel and other
- Duration of measurement adjustable in a range from 30 - 900 seconds
- Configurable pre-take-off for measurement in the representative coil layers

Optionen

- compressed air driven suction nozzle
- customized software upgrade

Requirements to the place of installation

- minimum 3 power sockets available (L1, N, PE)
- compressed air >5 bar at 20 l/min with added pressure reducer
- additional power socket for a printer
- additional space for a printer

Make adequate space available, so that all operating elements are easily accessible and that you can work conveniently. To guarantee safe set-up, please ensure that the selected area is hard, flat and stable. Ensure that this area can bear all system parts without problems.

- a table with free space 1,5m x 0,8m (recommended)
 - for the μ - Meter, including the FAG, electrostatic voltmeter, spin finish pump
 - and for the computer system / monitor / keyboard / mouse

HCC-P Software/Hardware

Software:

- HCC-P Version xx

Hardware:

- Analog/Digital-Convertercard for installation into a PC
- Instrumentation of the CPT 050 device
 - with all hardware – components necessary for the data aquisition

Minimum PC requirements for HCC μ -Meter

- Pentium III, 500 MHz, 128MB-RAM
- hard disk 4GB
- monitor and graphic card: min. 768 x 1024, 256 colours
- keyboard and mouse
- required plug-in space:
 - 2 PCI-slots
- CD-ROM
- housing:
 - standard desktop or miditower housing
 - (no slim-line housing)
- inclusive original operating system: Windows 2000, Windows XP, German or English version
- inclusive installation programs for all accompanying drivers (i.e. for monitor, graphic card etc.)
- other periphery: usual Windows standard

Technical execution subject to change without prior notice

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