

Nova 900 Dynamic Coefficient of Friction Tester



Features:

- Meets NEMA and IEC Specifications
- High Precision Load Cell
- Precision Linear Bearings
- LCD Display
- RS-232 Output
- Wire Tensioning/Straightening Systems
- Test Magnet Wire Sizes:
Dynamic CoF: 44 AWG to 12 AWG
(0.05 mm to 2.0 mm)
- 120 VAC / 1 Amp at 60 Hz
- 240 VAC /0.5 Amp at 50 Hz

The Nova 900 Dynamic Coefficient of Friction (CoF) Tester performs the dynamic CoF test according to the NEMA and IEC specification. The Nova 900 is designed for reliability and to produce test data with accuracy and repeatability. It has innovative features such as wire tensioning and straightening system to produce accurate and stable test data.

The Dynamic CoF test allows the manufacturers/users of magnet wires to determine the lubricity of the magnet wire insulation with lubricants. The lubricity of the insulation affects the spooling and windability of magnet wire into coils and its subsequent assembly into the finished products. The dynamic CoF test determines the average coefficient of friction value over a length of wire. The wire test length is dependent on the number of data points selected to calculate the Average CoF value. The test data displayed are Average CoF, Minimum CoF, Maximum CoF, and Standard Deviation. The test data of importance are:

1. Average CoF value;
The average coefficient of friction value determined over a length of wire tested (the numbers of data points selected).
2. Maximum CoF;
The highest dynamic coefficient of friction value determined during the test. This value can indicate insulation without lubricants or the presence of physical defects such as blisters or particles of dust embedded in the insulation and protruding above the surface of the insulation.
3. Standard Deviation;
The variation of CoF values from the average CoF value. The lower the Standard Deviation value, the better is the distribution of the lubricants along the surface of the insulation. It also indicates good surface quality of the insulation. High Standard Deviation value indicates the lubricants are not evenly distributed along the surface of the wire. It can also indicate the presence of blisters and poor surface quality of the insulation.

Dimension:

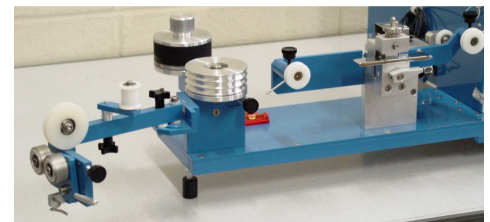
44" W x 20" D x 15" H
112 cm W x 50 cm D x 38 cm H

Other Model Available:

Nova 915 Dynamic and Static Coefficient of Friction Tester

Design and specifications subject to change without prior notification

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Dynamic CoF Tester wire tensioning and straightening system

Designed and manufactured in the USA
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