



Two wire/Three Wire Screw Thread Measurement Demonstration System



The accurate measurement of pitch diameter of a thread, which may be perfect as to form and lead, presents certain difficulties which result in some uncertainty as to its true value. The adoption of a standard uniform practice in making such measurements is, therefore, desirable in order to reduce such uncertainty of measurement to a minimum. The so-called “two wire and three – wire method” of measuring pitch diameter, as herein outlined, has been found to be the most generally satisfactory method when properly carried out, and is recommended for universal use in the direct measurement of pitch diameter in screws, thread plug and thread setting plug gages.

The Two Wire and Three Wire Thread Measurement Demonstration System is designed to provide students with the understanding of the measurement of pitch diameter using the Two Wire and Three Wire Method.

It consists of a stand fixed on a base plate with a spring loaded pointed ends to hold the screw under test. A precision digital micrometer Range 0 to 25mm with resolution of 1 micron (0.001mm) is provided to accurately measure the pitch diameter. The Two Wire and Three Wire Thread Measurement Demonstration System is provided with three sets of sample screws whose pitch diameter is to be measured and calculated using the Two Wire and Three Wire Method. Three sets of wires are provided to be used with the system for measurement of pitch diameter on sample screws provided.

Specifications:

Measurement:	High resolution digital micrometer
Screws:	3 sets of screws provided with different diameter and pitch
Wires:	3 sets of wires provided for each screw for use with both 2 wire and 3 wire method.



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Due to continuous improvement, specifications, dimensions, look, color, feel and features subject to change without notice.