

W-Series of Portable Magnetic Particle Inspection Equipment

Western Instruments has manufactured Quality Inspection Equipment for over 50 Years. W-Series are portable MT tools consist of 25 models of Yokes, 18 Models of Coils, Yoke Kits, Mobile Inspection Stations, and Accessories.

INTRODUCTION TO W-SERIES YOKES

Virtually all of our Yokes are Compact in size, making them lighter and more comfortable to hold than other competitive models, but still meeting industry specifications. Our Yokes are offered in 2 basic design types, the WC and WE-Series. Construction materials and techniques used in the manufacture of W-Series Yokes ensure they outlast any competitive products.

WC-Series Yokes are not like traditional designs of Yokes. Switching the power load is done with an easily replaceable electronic Power Module, housed between the Power Cord and the Yoke's internal coil. As the Module handles the load, the finger activation switch only handles half a watt of power and is why we warranty this switch for 2 years.

WE-Series Yokes are only similar to traditional designs of Yokes in that we use a typical switch found in most competitive Yokes. Unlike competitive designs, WE-Series Yokes use Western Instrument's superior power cord strain relief assembly. This same series of Yoke has resulted in our WE-3LT, which is the worlds lightest and most comfortable Yoke.

AC YOKES

WC-6 AC Safety Yoke

The WC-6 is the W-Series AC Safety Yoke, as it is totally grounded (Switch, Module, Frame, and Coil), giving the operator confidence in his electrical protection. Western Instruments offers models similar to the WC-6, but designed for low voltage operation common in Europe (42 and 48 VAC). The success of the WC-6 lead to the development of Western's WC-6x2, designed for testing coated workpieces, as it lifts over 20 pounds (9kg). The WC-6 is available in Water Resistant and Underwater versions.



Models: WC-6 (115V)
WC-6K (230V)
Current: 4 Amps (115V/60Hz), 2 Amps (230V/50Hz)
Weight: WC-6 - 6.5 Pounds (3Kg)
Voltage: 115 (WC-6) and 230 (WC-6K)
Frequency: 50 or 60 Hz
Lift: 10 Pounds (4.6Kg) Minimum
Capacity: 0-11" (280mm)
Cord: 8', 3-18 SOOW
Finish: Red Urethane Rubber

W-PT Pull Test Bars

Available as single Bars for AC Yokes and sets of 4 or 5 for DC Yokes. Also available as W-PT-DB with artificial defects. Aid for Training or Demonstration



W-CT for settling tests. This type of Centrifuge Tube is manufactured to meet ASTM requirements for Wet Visible or Wet Fluorescent Baths. Most reliable method for verifying Bath Concentrations and Cleanliness. Also available with Western's unique stand.

QQI's Quantitative Quality Indicators



The 5 Types are the most advanced Artificial Defect devices available and permit Field Leakage measurements with digital Magnetometers



Castrol Strips

Western offers both types of Castrol Strips Flexible Magnetic Flux Indicators. Type G or Type I or Gold, Type A or Type II or Silver

Pie Gauge

The W-PG Pie Gauge is manufactured to all applicable MPI Reference Specifications. Pie Gauges are the most traditional method to confirm field sensitivity. While not as sensitive as Castrol Strips or QQI's, Pie Gauges are extremely robust and part of every seasoned MT Inspectors kit.



Yoke Portable Power Pack

Western's Portable Power Supply (W-PPS) is designed to work with any of Western's AC or AC/DC Yokes. It provides AC Mains power for up to 2 hours.

MTU Test Piece #3

This test piece was developed to evaluate the performance of a Wet Method Bath on a known and recorded pattern of Surface Cracks. Not particularly practical for portable inspection applications, but is a widely accepted test standard.

