

# Western Instruments

Established 1965

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## Magnetic Coils, Models & Summary

Model	Description	I.D.		Amperes & Voltage		Amp Turns/Gauss	Comments
		in	mm				
<b>WD-Series Magnetizing/Demagnetization Coils</b>							
<b>WDV-8</b>	DC Coil	8.5in	216mm	13 Amps 6.5 Amps	115V/60Hz 230V 50Hz	12,500	<b>1.</b> The Size (Inside Diameter) of WD-Series Coils is to be sized to the physical size of the Work Piece to be inspected. Based on 1000 Amps per inch of ID.
<b>WDV-10</b>	DC Coil	10.5in	267mm	13 Amps 6.5 Amps	115V/60Hz 230V 50Hz	12,000	<b>2.</b> All WD-Series Coils have an integral Variable Amperage Power Supply, built into the integral Control Panel mounted on the top of the Coils.
<b>WDV-14</b>	DC Coil	14in	368mm	13 Amps 6.5 Amps	115V/60Hz 230V 50Hz	14,000	<b>3.</b> The Power Supply includes Infinitely Variable Amperage, Switched Reversible Polarity, and an LCD which always Displays the Amperage setting.
<b>WDV-16</b>	DC Coil	16in	406mm	13 Amps 6.5 Amps	115V/60Hz 230V 50Hz	16,000	<b>4.</b> WD-Series Coils are manufactured specifically for either 115VAC x 60Hz, or 230VAC x 50Hz power input Other Voltages can be accommodated
<b>WDV-25</b>	DC Coil	25in	635mm	13 Amps 6.5 Amps	115V/60Hz 230V 50Hz	24,000	<b>6.</b> WD-Series Coils (under 14"/368mm) have an optional Automatic Ring-Down (Demagnetization) Option. For fast, reliable, & repeatable Demagnetization.

<b>Note:</b> All WD-Series Coils are available with the exclusive AC Option. AC is added to the End of the Model Number (I.e., WDV-16-AC)	<b>7.</b> The Removable Power Cord is for operators who may want extra mobility without the use of an Extension Cord.
Encapsulated in urethane rubber. Ergonomically designed for comfort and use.	<b>8.</b> Pulse DC Option aids in particle mobility and ensures the ability to perform an Active Field Inspection.
All units supplied with 2.5m (8') 3-16 SOOW power cord.	<b>9.</b> See Web Document Coil Options for all available Options.

### WD Options

'K' - Added to any coil designation designates 230VAC 50Hz (Frequency may affect output) CSA, UL, C€
1 - Supplementary Feet also act as handles to aid handling, furthermore they provide a base to keep the coil from rolling.
2 - Standard Foot Switch recommended for high throughput. Also available on WP-Series Models. Included on WA-Series Models or Energize Button at no cost.
Removable Foot Switch, permits operation with our without the connection of the Foot Switch
Water Resistant Foot Switch, used in particularly Wet environments with high throughput
3 - Pulsed DC, permits the operator to perform an Active Field Inspection with a Pulsing Field (80 pulses per minute).
4 - ID Wear Bars - Upper, to protect the Top Inside Surface of the Coil (Coil dragged on surface of the work piece)
ID Wear Bars Lower, to protect the Bottom Inside Surface of the Coil (Work piece being dragged on the lower surface)
Side ID Wear Bars, for large workpieces or Pipeline Preweld Demagnetization
5 - AC Option, is 4000 Amp Turns on WD-Series Coils 16"ID and under. Not available on WDV-18 and Larger Coils. While the AC Option permits AC testing, it also aids Demag procedures as well.
6 - Automatic Ring-Down for High throughput Demagnetization on common parts.
7 - Removable Power Cord, for Rough Operators
8 - Control Housing Lifting Lugs, for hanging smaller ID Coils, or Lifting larger ID (Heavy) Coils
9 - Pipe End Centralizer Assemblies, for Pipeline Preweld Demagnetizaion
10 - Remote Controls are used when the operator can't reach the standard Controls on top of the Coil, or the Operator needs to be removed a short distance from the Coil itself.