

## WP - Series continued...

MODEL	FEATURES	SIZE	115V/60Hz	OUTPUT	
WP-8	AC only Coil	8"/201 mm	13 Amps	6.5 Amps	4250 AC
WP-8D	AC and DC Coil	8"/201 mm	13 Amps	6.5 Amps	4150 AC / 6000 DC
WP-8DV	AC with Variable DC Coil	8"/201 mm	13 Amps	6.5 Amps	4150 AC / 0 to 6000DC
WP-8DVR	AC with Variable and Reversing DC Coil	8"/201 mm	13 Amps	6.5 Amps	4150 AC / +/- 0 to 6000DC
WP-10	AC only Coil	10"/254 mm	15 Amps	8 Amps	4150 AC
WP-10D	AC and DC Coil	10"/254 mm	15 Amps	8 Amps	4150 AC / 6000 DC
WP-10DV	AC with Variable DC Coil	10"/254 mm	15 Amps	8 Amps	4150 AC / 0 - 6000 DC
WP-10DVR	AC with Variable and Reversing DC Coil	10"/254 mm	15 Amps	8 Amps	4150 AC / +/- 0 to 6000 DC
WP-12	AC only Coil	12"/305 mm	16 Amps	9 Amps	4050 AC
WP-12D	AC and DC Coil	12"/305 mm	16 Amps	9 Amps	4050 AC / 6000 DC
WP-12DV	AC with Variable DC Coil	12"/305 mm	16 Amps	9 Amps	4050 AC / 0 to 6000 DC
WP-12DVR	AC with Variable and Reversing DC Coil	12"/305 mm	16 Amps	9 Amps	4050 AC / +/- 0 to 6000 DC
WP-14	AC only Coil	14"/355 mm	18 Amps	10 Amps	3875 AC
WP-14D	AC and DC Coil	14"/355 mm	18 Amps	10 Amps	3875 AC / 6000 DC
WP-14DV	AC with Variable DC Coil	14"/355 mm	18 Amps	10 Amps	4050 AC / 0 to 6000 DC
WP-14DVR	AC with Variable and Reversing DC Coil	14"/355 mm	18 Amps	10 Amps	3875 AC / +/- 0 to 6000 DC



## WS-Series

Western Instruments WS-Series of Portable MPI Coils is also possible from the completely new A/P/S Coil Platform, not based on any existing type of Coil. These new WS-Series Coils have been specifically developed for Drill Pipe Inspection. This new Coil platform was developed from Customer input for a simple to use, low cost yet powerful Mag-Coil (1,200 Amp Turns per inch of ID). Threaded Connection Inspection on Drill Pipe is typically performed with little regard for precise output controls like those found on our WD-Series Coils. These WS Coils meet the output requirements of DS1 and NS-2 where high Amp Turns are required. However, Auditors typically demand an Amp Meter, and other controls. You won't find AC Output or Demag features just brute magnetizing.

WS-Series can be called the 21st Century version of Drilco® Coils, as their output characteristics are similar to those old successful Smith International® Drill Pipe Coils.

### Specifications:

**Models:** WS-8 (WS-8K), WS-10 (WS-10K), WS-12 (WS-12K), and WS-14 (WS-14K)

**Voltage:** 115 VAC - 60 Hz (WS-12)  
230 VAC - 50 Hz (WS-12K)

**Current:** 115/60 Models 10 to 18 Amps  
230/50 Models 6 to 11 Amps.

**Capacity:** 400+ Gauss at Center and  
1,200 Amp Turns per inch of ID

**ID Sizes:** 8" (201mm), 10" (254mm), 12" (305mm) 14" (355mm)

**Depth:** 3" (92mm)

**Weight:** WS-8, 14 pounds (3.7kg), WS-10, 15.5 pounds (7kg); WS-12, 17 pounds (7.7kg), WS-14; 19 pound (8.5kg)



## WD-SERIES

WD-Series Coils are Western Instruments premier products that have gained a World Wide reputation. The WD-Series Power Supply, mounted to the top of the Coil, offers the operator Infinite Variable Control on the DC Output of the Coil. All WD-Series Coils have a DC output greater than 1,000 Amp Turns per inch of ID, meeting the most stringent specifications. WDV-Series Coils have gained a very favorable reputation for their manual Reversing DC Demagnetization capability.

## PERMANENT MAGNET YOKES

The W-Series product line includes 3 different models of Permanent Magnet Yokes. These models consist of two traditional hinged frame models and a Cable type configuration, for high performance needs. All 3 models use Rare Earth Magnets, that lift 60 pounds (27kg), so recharging isn't required.



Capacity: All are >50 Pounds (23 Kg)	
Field Strength with Tips in Contact:	
WM-5	9200 Gauss
WM-5LT	8500 Gauss
Field Strength with 2" (50mm) Air Gap:	
WM-5	510 Gauss
WM-5LT	380 Gauss
Pole Spacing:	
WM-5	0-14" (0-350mm)
WM-5LT	0-14" (0-350mm)
Weight:	
WM-5	5 Pounds (2.3 Kg)
WM-5LT	3 Pounds (1.4 Kg)

The Hinged Frame Models have exclusive Dual Contact Foot Surfaces, that rotate to ensure maximized contact. The WM-5 is of a similar size to competitive models, with the WM-5LT being far lighter and smaller.



This cable configuration allows a great deal of flexibility to conform to many different workpieces, with the ergonomic hand grips ensure easy removal from the workpiece.

Capacity: >50 Pounds (23 Kg)	
Field Strength with Tips in Contact:	
WM-5C	10900 Gauss 2mm (0.80") Air Gap
Field Strength with 2" (50mm) Air Gap:	
WM-5C	5700 Gauss (Single Pole Only)
Pole Spacing:	
WM-5C	0-24" (0-610mm)
Weight	
WM-5C	2 Pounds (0.9 Kg)

## Portable MPI Kits

Western Instruments offers 6 Models of Portable Yoke Kits, which are packaged in 3 different Cases. These Kits vary from a simple Yoke carrying case, our Basic Dry Method Kit, topped off by our exclusive Self Contained Wet Fluorescent.



### Our most Economical Kit

#### Basic Dry Method (W-DMB)

Carrying Case  
Customer Selected Yoke  
Powder Bulb  
2 x ¾ Pounds (350g) of Dry Method Powder: Grey, Red, Black, and Yellow  
Field Indicator (Magnetometer)  
Operator Instruction & Calibration Certificate  
*Illustrated as a WC-6-DMB*