

Western Instruments

Established 1965

WS-Series Drill Pipe Coils

Western Instruments new WS-Series of 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. Threaded Connection Inspection on Drill Pipe is typically performed with little regard for precise output controls, like those found on our WD-Series Coils. You won't find AC Output, or Demag features just brute magnetizing power!

WS-Series Coils are offered in 4 ID Sizes; 8" (203mm), 10" (254mm), 12" (305mm), and 14" (356mm), and named the; WS-8, WS-10, WS-12, and WS-14 to permit testing on 2 $\frac{3}{8}$ " to 13 $\frac{3}{8}$ " End Areas. WS-Series Coils meet the output requirements of DS1 and NS-2 where high Amp Turns are required. However, knowledgeable Auditors typically demand an Amp Meter, and other controls. To put our money where our mouth is, these Coils have a centerline field of 400 Gauss, far exceeding these specifications.

WS-Series Coils provide a powerful DC Pulse, once per second from a our CD (Capacitive Discharge) Power Supply. While the WS-Series uses a similar Coil Housings to Our WA and WP-Series Coils, it is slightly taller, built with a top panel with convenient handles. WS-Series Coils are completely different due to the unique CD Spike Power Supply for a field that extends into box end threads.



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 - 15 Amps (Inrush Current)
230/50 Models - 15 Amps (Inrush Current)

Frequency: 60 Hz Model
50 Hz Model (K)

Output (Amp Turns/Gauss); WS-8 - 21,000 / 1,125, WS-10 - 18,000 / 800.
WS-12 - 17,000 / 620, WS-14 - 16,000 / 470

ID Size: 8" (201mm), 10" (254mm), 12" (305mm) 14" (355mm) .

Depth: 3 $\frac{5}{8}$ " (92mm).

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



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