

Upper ID Wear Bars

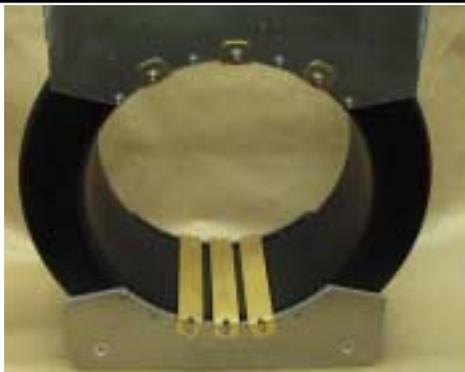


The WDV-10 shown here, has been in field service for 2 years, and was equipped with ID Wear Bars prior to being delivered to the customer. ID Wear Bars are made of Brass, so they won't damage the part under test, and will slide easily on the workpiece.



ID Wear Bars are fastened in place, using the Tie Bars that are cast into the Coil Housing. The Tie Bars locate the Controls Housing to the top of the Coil Housing. The WDV-8's and WDV-10's are fitted with 3 ID Wear Bars (as illustrated), while WDV-14's are equipped with 5. WDV-16's through 24's are also equipped with 5 ID Wear Bars, however on the bottom side of the Coil Housing, we have cast in 3 extra Tie Bars. These extra Tie Bars can be used for mounting additional ID Wear Bars, but can also be used for other mounting purposes.

Lower ID Wear Bars



Over the years that Western has been manufacturing WD-Series Coils, we have seen damage to the Urethane Rubber Encapsulant. The most common is on the top inside surface, where the Coil is placed on a pipe end and magnetized (or demagnetized). During 'End Area' use, operators tend to drop and drag the Coil over Upsets, Threads, or Couplings.

As the market for WD-Series Coils has expanded, we see many different applications, including bench top units. In this case we see the workpiece dragged over the lower ID surface of the Coil. If these workpieces are small the operator simply places them inside the coil, however as the weight and size of such components goes up, so does the potential for damage to the Coils.

To address the potential of wear and damage to the lower ID surface, Western introduced Lower ID Wear Bars. The Mounting Plate (illustrated to the right) for these Wear Bars clamps to the Cast Coil Feet of the Coil. So retrofitting an existing Coil is fast and easy.



Side Wear Bars



Side Wear Bars are intended to protect the Coil Housing from axial impacts, when the ID of the Coil is only slightly larger than the outer dimensions of the Work Piece. Side Wear Bars also protect the ID Surface of the Coil from workpiece abrasion.

Typically installed on larger Coils, the number of Side Wear Bars used will vary from Coil Size and Service Duty. Illustrated to the left are 2 Side Wear Bars mounted on a WDV-25 Coil used for Casting Inspection. When used to Demagnetize Pipelines, a WDV-25 would be equipped with 4 Side Wear Bars located at 2, 5, 8, and 10 O'clock positions.



ID Wear Bars are Clamped to the Coil, so they can be positioned at any point around the Coil.

Cast Coil Feet



The Cast Coil Feet are installed on WD-Series Coils as a secondary operation. The Feet have several uses; Firstly, they keep the Coil from rolling when the operator sets it on the floor, ground, or table. Secondly, the Cast Coil Feet give the operator additional holding points (handles) when he lifts the coil onto the end of the workpiece or bench. Third, the Cast Coil Feet protect the lower outside of the Urethane Rubber, from abrasion or damage from floors, grading, etc. The Cast Coil Feet are used in conjunction with the Lower ID Wear Bars, for holding the Mounting Plate in place. Lastly, WD-Series Coils can be installed on conveyers or hung inside an Inspection Booth and here again the Feet are used for mounting.

When the Feet are used for mounting, Round Aluminum Bars installed (and captured) in on of the two different hand holds within each foot, which are $\frac{3}{4}$ " (19mm) or 1" (25mm) in Diameter. The Bars in turn are held in place by Mounting Plates, which clamp against the Coil's base. These Bars and Mounting Plates are easily installed by the customer where the Cast Coil Feet Option has been installed. With this versatility, these captured bars have commonly used for hanging Coils, from overhead supports, as show with the inset picture.

Removable Power Cord



One of the most common repairs to Portable Equipment is the Power Cord becoming damaged by accident or careless operators. In an attempt to mitigate these mishaps, WD-Series Coils are offered with Removable Power Cords. As illustrated to the left, a male connector is installed into the Controls Housing, and accepts the female threaded Connector.

These connectors are also fitted with one of our standard Cord Protectors, which provides extra strain relief. Therefore if the connector or power cord is damaged, you will know there has been a great deal of strain applied to these components.

Cast Handle Grips



When WD-Series Coils were introduced with our new Welded Control Housings, the side handles became thinner, which made the grips hard to use. We very quickly introduced Cast Handle Grips for the Welded Housings. These economically priced 'finger saving' grips are a must for all new WD-Series Coils. For our long standing Coil Customers, a wider grip is now available and is added to all older Coils that are sent in for repair and Calibration.

Lifting Lugs



WDV-16 and larger Coils are a little heavy to be handled by a single operator, so Western has designed a Vertical Lifting Lug assembly that is attached to the Control Housing. This feature allows the Coils to be lifted (or suspended) vertically, for convenient positioning on and off of the workpiece. If horizontal handling is required, Western can also provide the Lower Lifting Lug Assembly (illustrated to the right). When the Upper and Lower Lifting Lugs are connected with a sling, the Coil can be Lifted horizontally on and off of the work piece.

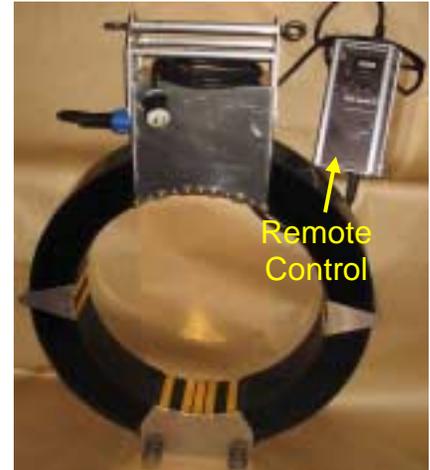


Remote Controls



One of the many benefits to WD-Series Coils is the Self Contained Controls. Again, for larger Coils, where they are a little heavy to be handled by a single operator, Western now offers Remote Controls. The curved lower portion of the Control Housing is removed, and a solid bottom is Welded Into to form the bottom of the light and rugged housing. This allows operators to move around the workpiece and having full access to the controls.

Again, intended for larger coils, Remote Controls have also been installed on high through-put inspection stations. When operators want to upgrade Aluminum Bobbin Coils, our Remote Control Housing provides the versatility of the WD-Series Magnetization Controls, with the reliability of the WD-Series Demag capabilities.



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