

# Western Instruments Inc.

Established 1965

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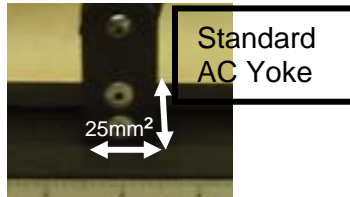
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## WE-3LT lifting 10 pounds

Some operators may have difficulty ensuring a WE-3LT lifts 10 Pounds. Standard AC Yokes (WE-3HD, WC-6) have feet with a cross section of about 25mm<sup>2</sup>, which gives a great amount of contact area for the magnetism to be induced into the work piece. One does not need to be as careful when pull testing a Standard AC Yoke



The picture to the left shows the Yoke foot sitting flat and at right angles to the Pull Test Bar. Operators often find that Yokes vibrate during a pull test. This results from one or both of the feet not being flat or at right angles to the pull Test Bar.

The WE-3LT has only 75% of this contact area, 19mm<sup>2</sup>. Therefore operators must be very mindful to ensure the contact feet are sitting flat and completely square to the pull test bar



The picture to the left shows the Yoke Foot not sitting flat on the surface. Further, the Yoke Legs are not at right angles to the illustrated surface. This will allow the yoke to rock on the surface. If one can not have their Yoke stand on it's own 2 feet, it means that the feet are not flat on the surface or the surface is not flat.

To get a yoke to stand on its own, one may need to finely adjust the feet so they are flat to the pull test bar. Sometimes this can be achieved by pressing down Hard on the YOKE, and forcing the feet flat to the surface.

Sometimes doing a pull test on these Yokes with smaller cross sections, no matter the manufacturer, can be a bit of a balancing act. However patience and care will prevail.

The picture to the right was not done on the first take. This is a WC-6x2 lifting 20 pounds over an Egg. One can note how square and flat the Foot and Leg assemblies are to the top pull test bar. A WC-x2 will lift over 24 Pound under ideal conditions. The WE-3LT will lift over 14 pounds under similar ideal conditions

