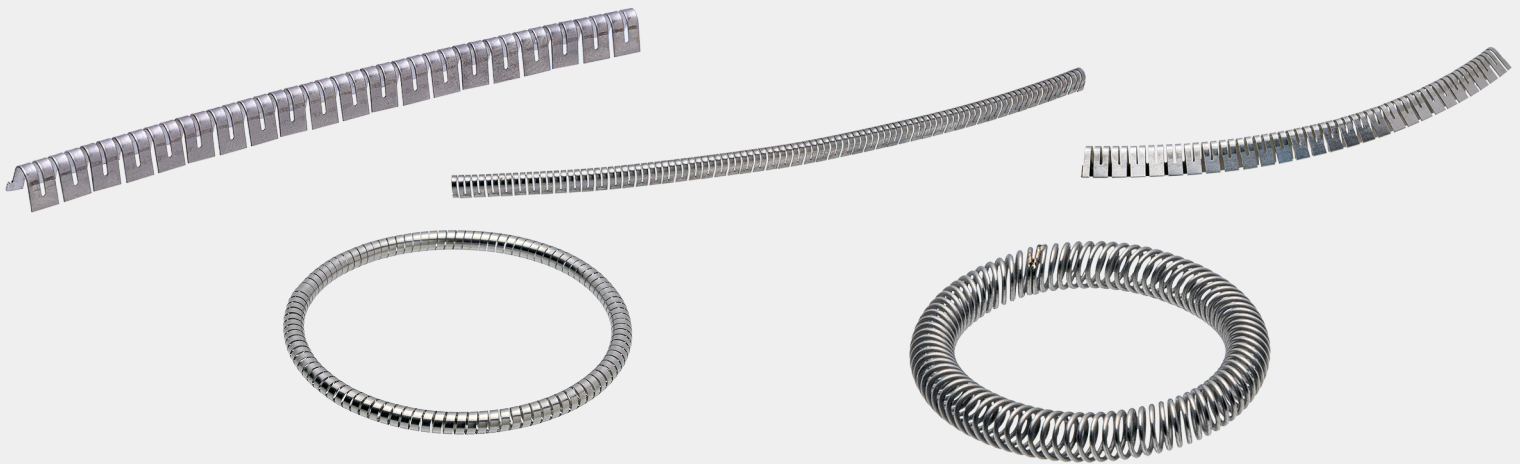




Maudlin

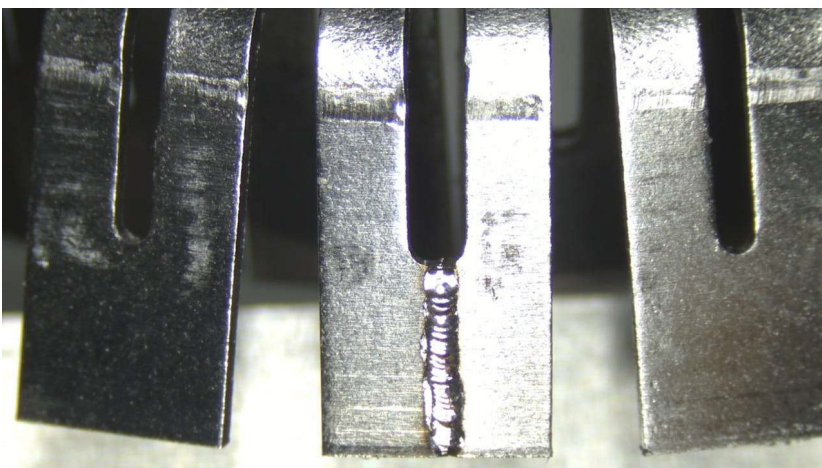
Maudlin Laser Welding



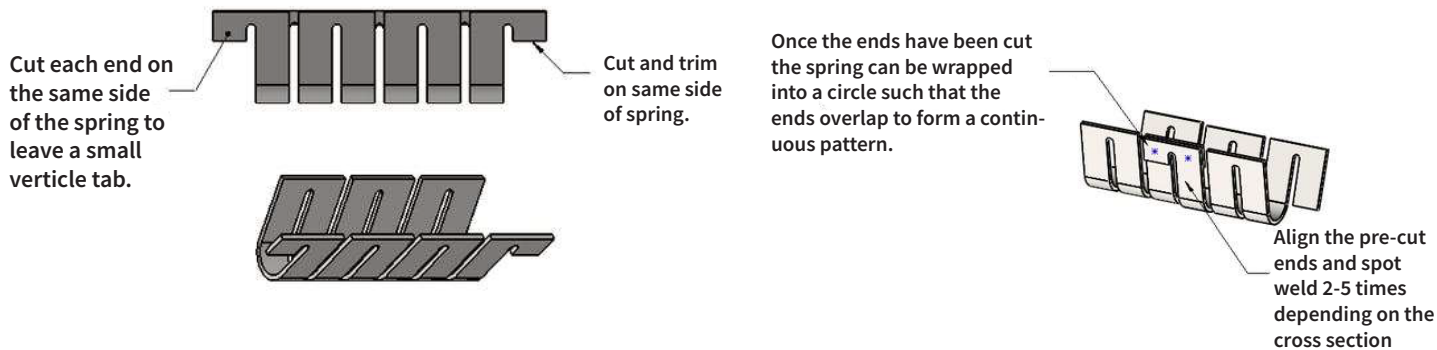
For a long time, spot welding was the standard method for connecting the ends of spring energizers. Maudlin Products has taken this process to the next level with our state-of-the-art laser welding capabilities. There are many advantages to laser welding, including a precise and even weld, consistency and efficiency of high-volume runs, no weld tab or extra pieces to deal with and limited heat transfer which keeps the spring properties intact. Through many years in the business, Maudlin has found that one of the most common contributors to seal failures is an improper or missing energizer spring weld. An improper weld can lead to a “high point” on the sealing lip which causes uneven pressure and premature wear. Or, when the spring is not welded at all, it cannot provide adequate, evenly distributed support to the seal. Laser welding creates a precise weld, allowing for even distribution of loads to ensure proper sealing.

The illustrations below compare the Maudlin laser weld vs. various spot welding techniques. Please contact Maudlin Products Engineering with any questions regarding your specific application.

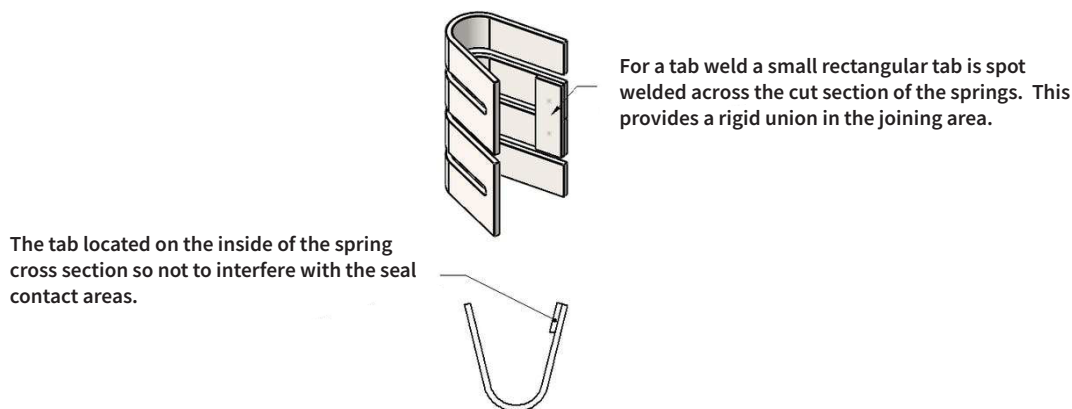
Maudlin Laser Welding



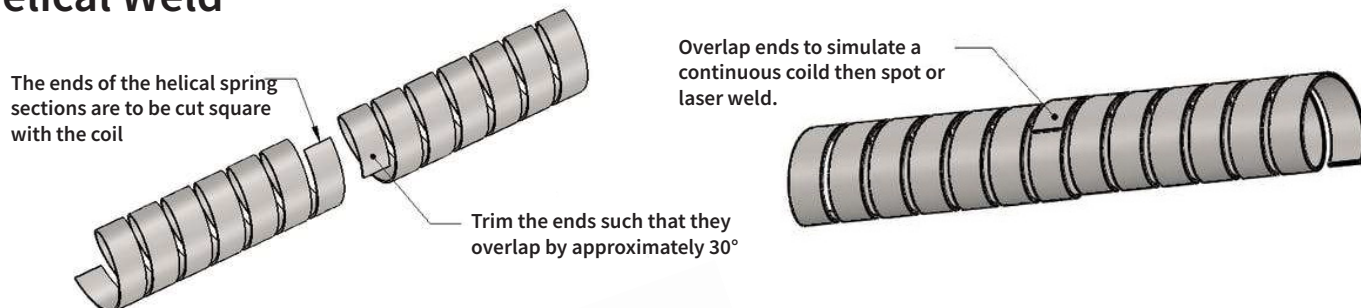
Cantilever Spot Weld (Not the Maudlin Laser Weld)



Cantilevered Tab Weld (Not the Maudlin Laser Weld)

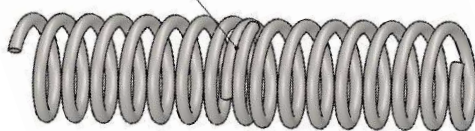


Helical Weld



Slant Coil Weld

For a proper slant coil weld the spring ends must overlap roughly 30° and then be spot or laser welded along the seam.



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