

Target Fixation Types and Solutions

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Introduction:

Sputtering targets and backing tubes have many unique types of target fixation or clamp styles that are associated with the various manufacturers of end blocks. The unrivaled design of Sputtering Components end block allows for adaptability to virtually all target fixations by simply changing the fixation clamp upon depletion of existing target inventories.

Sputtering Target Clamps:

The fixations of most targets share the same single wire design that utilizes various diameters and profiles as a means to quickly secure the target to the end block with a single clamp. When designing the Sputtering Components clamp, the team considered the reported field issues and attempted to reduce many of the concerns. Advantages of the sputtering Components clamps include; rotation direction irrelevance, round wire to ease the installation, robust design and high strength bolts. The design also follows the Sputtering Components philosophy of simplicity and reduced tools needed to complete service and maintenance. Sputtering Components manufactures various clamps to adapt your existing inventory to SCI end blocks while current inventory is depleted.

The recommendation is that upon procurement of new targets, the SCI fixation is ordered to eliminate the risks associated with other clamp fixations. This is accomplished by simply changing to the standard Sputtering Components clamp. Sputtering Components fixation clamps are used for all orientations and also utilize a second smaller diameter wire when targets are cantilevered.

Summary:

Sputtering Components manufactures common standard clamp designs for short term use that will work for most installations. We also strive to design clamps to adapt your current, maybe not so popular target inventory type to Sputtering Components end blocks for short term solutions. Please contact your sales team to determine what we can do for you to adapt to Sputtering Components. Our target design is public knowledge, free of charge and is available at www.sputteringcomponents.com Most major target suppliers have manufactured Sputtering Components fixation targets and are familiar with the design.

Figure 1: Sputtering Components Target Fixation

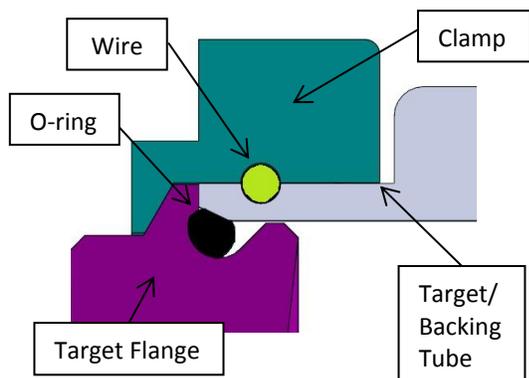


Figure 2: Sputtering Components Target Fixation cantilever

