Empty Nonlinear Crystal Mounts



NLCMxxx

Description

The NLCMxxx mounts are designed to hold user-supplied nonlinear crystals. These can then be conveniently mounted in the NLCHx ovens, which provide temperature control and stability for nonlinear crystal experiments. Additionally, these mounts can be used with a KM200HM or KM100LM(/M) mount, with or without the oven respectively, to provide kinematic control for alignment into the user-supplied nonlinear crystal.

Assembly Instructions

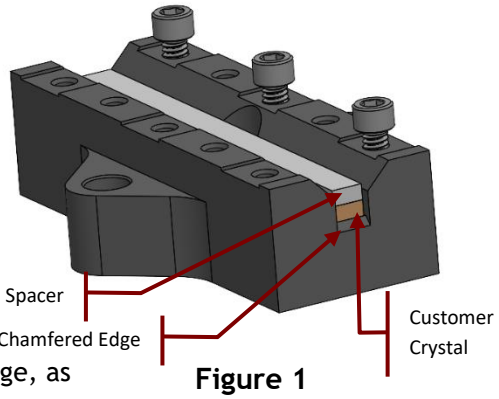


Figure 1

1. Install crystal into groove aligning with chamfer edge if mounting a crystal with a maximum length of 30 mm (Item #s NLCM212 or NLCM332), 20 mm (Item # NLCM213), 15 mm (Item # NLCM331), or 10 mm (Item # NLCM210). If the crystal being mounted is shorter than the maximum length of the mount, center the crystal in the cavity.
2. Add the glass spacer (retention glass), aligning with the chamfer edge, as shown in Figures 1 and 2.
3. Install screws in the spring retention areas as shown in Figure 3. NLCM212 and NLCM332 will have 3 screws on each side, NLCM331 and NLCM213 will have 2 screws, and NLCM210 has 1 screw.
4. Install springs as shown in Figure 4, tightening all 6 screws (4 for Item #s NLCM331 and NLCM213 and 2 for Item # NCLCM210) to secure the springs.
5. Install the cover with additional screws, as in Figure 5, and tighten.
6. The blank white area can be used to label the mount with a high-heat marker or scribe.



Figure 2



Figure 3



Figure 4



Figure 5