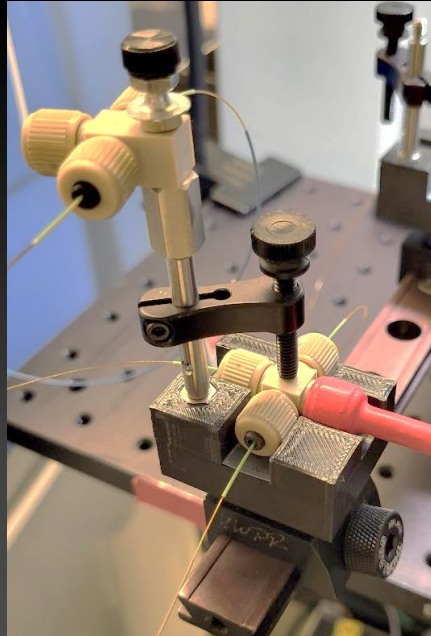
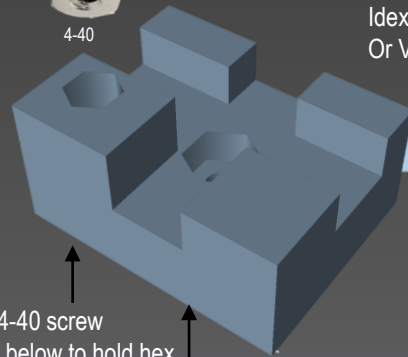


NSI Source: 3-D printed carriers

When using stainless steel crosses or tees there is the potential for the high voltage to arc. To minimize that risk we use 3D printed carriers, using PETG filament to print the carrier.

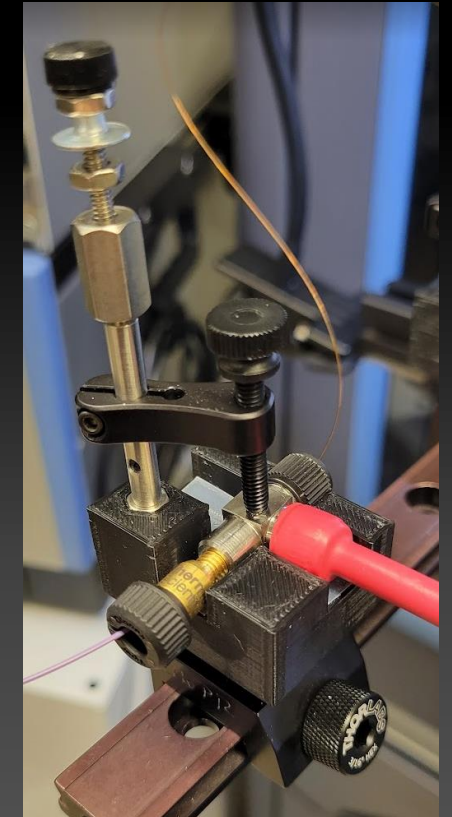


Carrier with P-777 cross connected to high voltage lead and 360µm OD column, Trap column and waste line



use 4-40 screw from below to hold hex thread adapter
use 8-32 screw and hex nut to mount the 3D printed carrier to the RC1 rail carrier

- 98434A102 18-8 Stainless Steel Female Hex Thread Adapter, 4-40 to 6-32 Thread Size (McMasterCarr)
- 94323A598 Nylon Raised-Head Thumb Screws 8-32 Thread Size, 1" Long, black (McMasterCarr)
- PM3 Small Adjustable Clamping Arm, 6-32 threaded Post (Thorlabs)
- 92499A037 18-8 Stainless Steel Male-Female Hex Thread Adapter, 6-32 to 4-40 Thread Size (McMasterCarr)
- 3D printed carrier for IDEX PEEK cross (P777) or PEEK tee (see separate files to print this carrier)
- RC1 Rail Carrier, Counterbored Hole 1"x 1" (Thorlabs)



Carrier with UH-753 adapting tee connected to nanoViper line, high voltage lead and 360µm OD column