

CRYO TIP / TILT / PISTON STAGE (CTTPS)



Features

- Driven by Cryo Linear Actuators (CLA)
- Preloaded actuators to ensure play free motion
- Frictionless membrane guides instead of vgrooves
- Materials: stainless steel, titanium
- 20 mK to 375 K, vacuum compatible
- Sub-nanometer stability
- 1/2" or 1" version standard
- Optics side-clamped with a spring loaded screw
- Self locking; no power dissipation when "off"

Description / Applications

The Cryo Tip / Tilt / Piston Stage (CTTPS) accepts 1/2" or 1" optical elements and can be operated in a cryo-vacuum environment. It is actuated with JPE's Cryo Linear Actuators (CLA). The actuators are preloaded and the in-plane position of the optics is not achieved via traditional ball in v-groove constructions, but by using a deformable metal membrane. Combined these features eliminate play and friction in the tip / tilt / piston axes, and therefore allow very accurate and stable positioning. The system will hold its position when powered-off.

	CTTPS1
3	
Tip/Tilt/Piston	
	25.4(1)
	21
	± 5.6
± 1.5	
CLA2201	
Titanium, stainless steel	
	170
mentio	ned.
to syst	em motion
± 1.5	
5-25	
1-5	
0.02-375	
0,25	
CAB-230(115), CADM2	
-	nention to syst ± 1.5 5-25 1-5 0.02-37 0,25 30(115),