

Multi-fiber connectors such as twelve, twenty-four, and seventy-two fiber MT style; MTRJ, and angled MT connectorized cables can be processed on Krell Scepter™ and SpecPro™ 4L polishers.

All workholder ports are built and verified interferometrically to +/-2 minutes. We have determined empirically that this facilitates polish squareness (X/Y angle) to the order of 0.05 degrees on a consistent basis. This improvement in polishing squareness provides better fiber to fiber contact, and subsequently, lower losses within interconnects.

Up to 12 connectors may be polished simultaneously with Scepter™, and 2 connectors with SpecPro™.



Interferometric image of polished 12 fiber MT

Connector parameters:

Parameter	Result	Te
X ROC (mm)	-800394.02	
Y ROC (mm)	145.95	
X Endface Ang (deg)	0.006	
Y Endface Ang (deg)	0.032	
Flatness Deviation (um)	-0.001	
Max Diff Fib Ht Adj (um)	0.05	
Planar Diff Ht Total (um)	0.13	

Fiber #1	Fiber #2	Fiber #3	Fiber #4	Fiber #5	Fiber #6	Fiber #7
1.07	1.10	1.13	1.16	1.17	1.16	1.14
Yes	Yes	Yes	Yes	Yes	Yes	Yes

Fiber #6	Fiber #7	Fiber #8	Fiber #9	Fiber #10	Fiber #11	Fiber #12
1.16	1.14	1.17	1.15	1.13	1.10	1.04
Yes	Yes	Yes	Yes	Yes	Yes	Yes

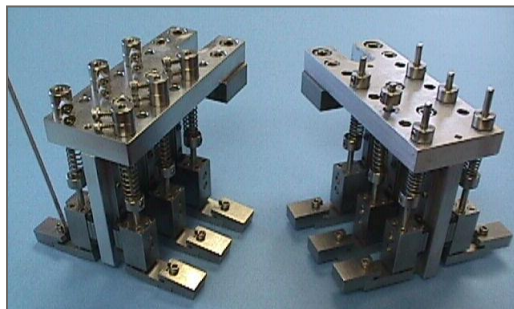
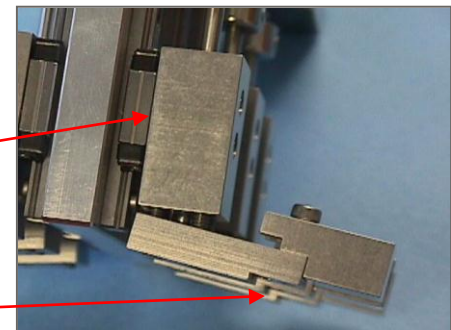
MTP Polishing Parameters

X ROC : >2000mm
 Y ROC : > 100mm
 X angle : < +/- 0.1 deg
 Y angle: < +/- 0.1 deg
 Protrusion Range: 0.75um to 3um (process dependent)
 Adjacent Height Diff: < 0.2 um
 Total Height Diff: < 0.5um

Workholder Design Features

The workholder ports are independently suspended with wide dynamic range springs for uniform pressure application.

Ports are actively aligned and permanently locked to make the connector port perpendicular to the polishing surface to within 2 arc minutes.



MTx Support

MTP flat (PC)
MTP angled (APC 8 deg)
MTRJ