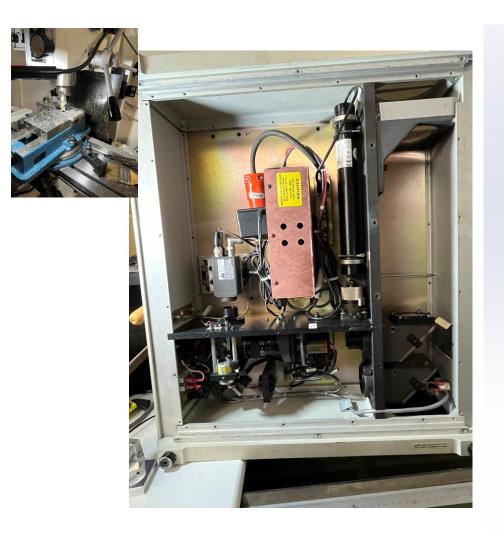
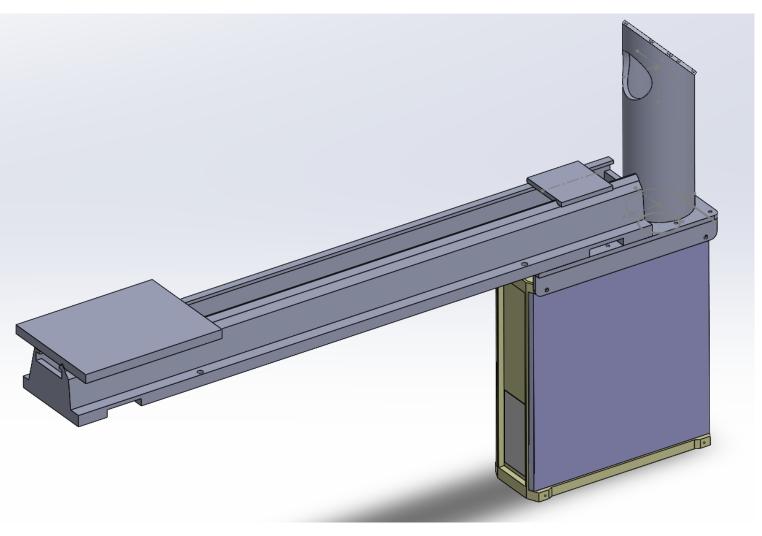
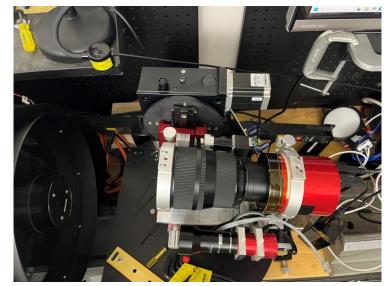


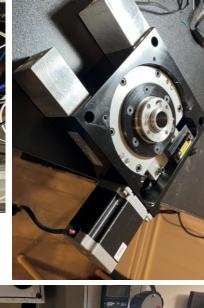
Interferometric Test Bench

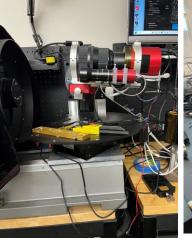


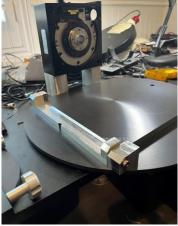


Tip-Tilt Table







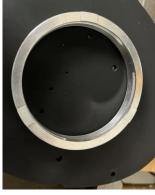




Disaster Strikes







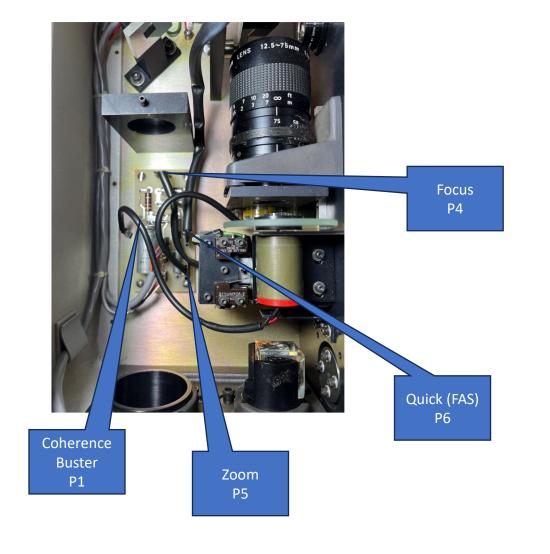




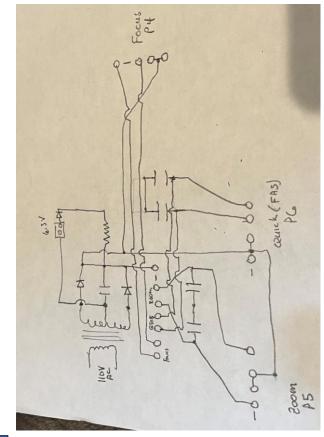
Cutting the 12"x16"x1"stage for the 8.5" 4% Return Flat



Missing Hand Controller

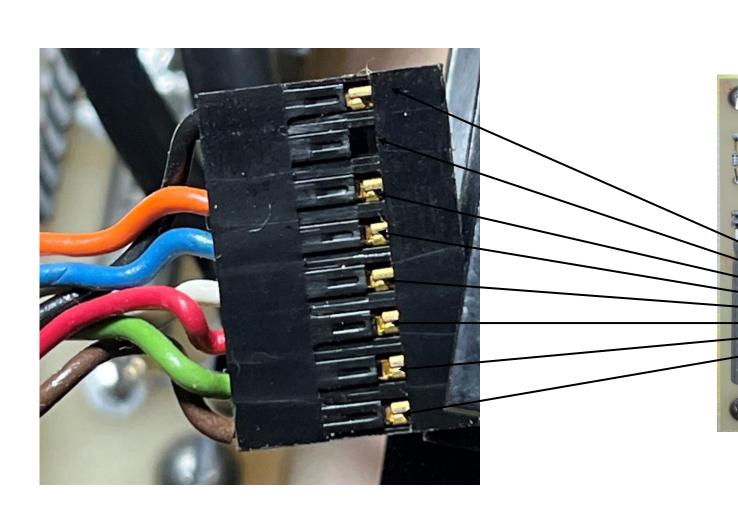






To Transformer To Hand Controller

Hand Control Power Board





Relay Cable

Black

Orange

Blue

Green

Gray

Zygo Computer Control

- 4-relay board This architecture prevents running the motors both directions at once
 - Relay 0
 - Power Zoom
 - Relay 1
 - Power Focus
 - Relay 2
 - Zoom in
 - Zoom out
 - Relay 3
 - Focus close
 - Focus far
- USB Cameras
 - Alignment mode ASI 224mc
 - Fringe mode ASI 174mm DSO, ASI120 and ASI174 mini cameras do not work as webcams
- USB-3 hub powered inside Zygo mainframe
- USB-3 panel mount external interface
- Dedicated OpticsBench computer outside Zygo mainframe
 - USB3 to Zygo

Rotation Axis Cable Mapping

398622

Motor

A).Red

B).Brown

C).Orange

D).Black

Drive

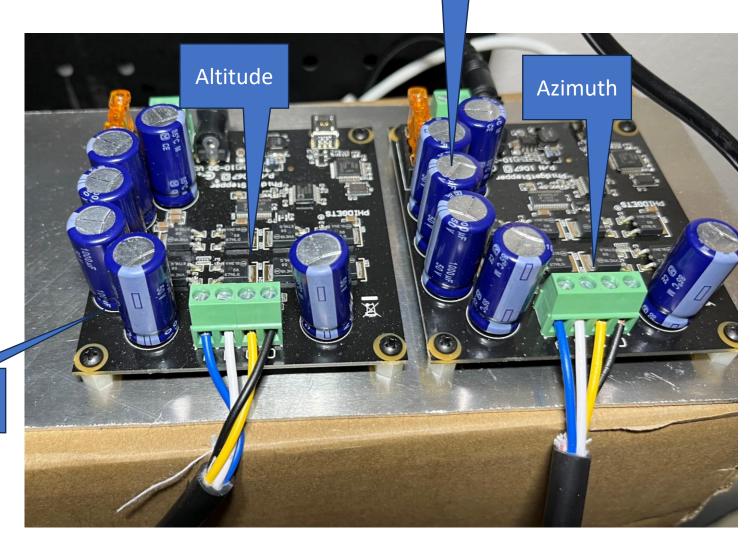
Blue

White

Yellow

Black

398908



Remote Control

- Zygo Control
- Alt AZ control
- Lights Control
- Pinhole control
- Alignment control
- Focusers control
- Filters control
- Diffuser control
- Flat panel control
- Camera control

Stepper Driver Wiring Mapping

- DB9 pins
 - Pin 1 = Blue
 - Pin2 = White
 - Pin4 = Yellow
 - Pin5 = Black

Pin Assignment of the FS2 motor jacks:



Coil 1, beginning

```
Pin 2 Coil 1, end
Pin 3 Not connected
Pin 4 Coil 2, beginning
Pin 5 Coil 2, end
Pin 6 Ground (shielding)
Pin 7 Ground (shielding)
Pin 8 Ground (shielding)
```

Pin 9 Ground (shielding)

Pin 1

The motor cables should not be longer than 3 meters, because otherwise the losses in the electronics will be high due to the high capacitance of the cable!

RoboFocus Motor DB9

RoboFocus Stepper Colors

DB9	HURST(standard)	NIPPON PF	
1 coil A	BLK	YEL	
2 coil A	WHI	ORG	
3 coil B	BLU	BLK	
4 coil B	RED	BRN	
5 common	BLK/WHI-BLU/WHI	RED-RED	