

Performing a Probe to Optics Calibration on a Zeiss O-Inspect System

Purpose

The purpose of this instruction is to guide a user through the Probe to Optics calibration on a Zeiss O-Inspect Multi-sensor system. The calibration will align all current and newly created tactile probes to the center of the camera after this is completed.

References

Zeiss Help Line: 800-327-9735
SN: 167212

Tools Required

Zeiss supplied Ring Gage 16.00 Diameter
Zeiss supplied Ring Gage Holder (Otherwise, manual alignment needs to be performed).
3mm X 50mm Touch Probe (Blue Collar)

Instruction

- 1: Open the Rtn: tactile_optical_adjustment_and_check_V1.4_C5.4 (located in default routines folder).
- 2: Place Ring Gage (16.000 Diameter) Specimen into Ziess Supplied Holder and Mount it into the Location Shown in **Image 1** Below:

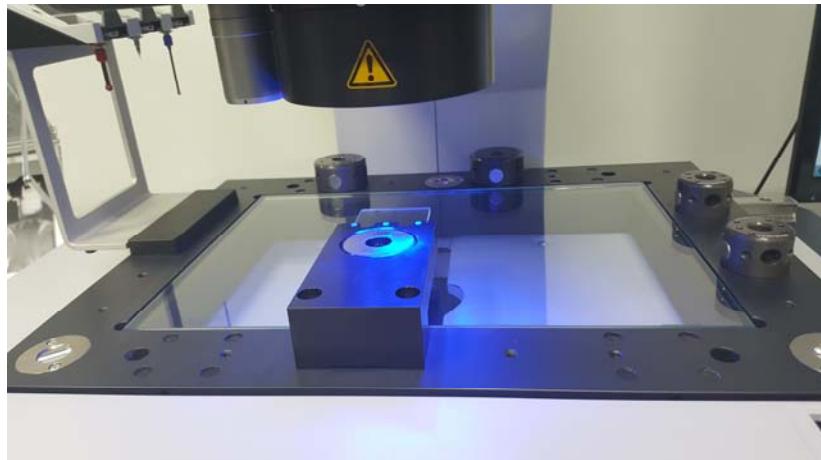


Image 1: Ring Gage and Holder bolted to 3.2.2 Stage.

3: Make Certain

4: Click the Run Option



Select Manual if you are NOT Certain About Placing the Specimen in the Same Location on the Stage OR if you are NOT using the Same Ring Gage Holder in Image 1. Otherwise, Select Current if you are Certain the Position of the Ring Gage is the Same.

This Should Say Customer

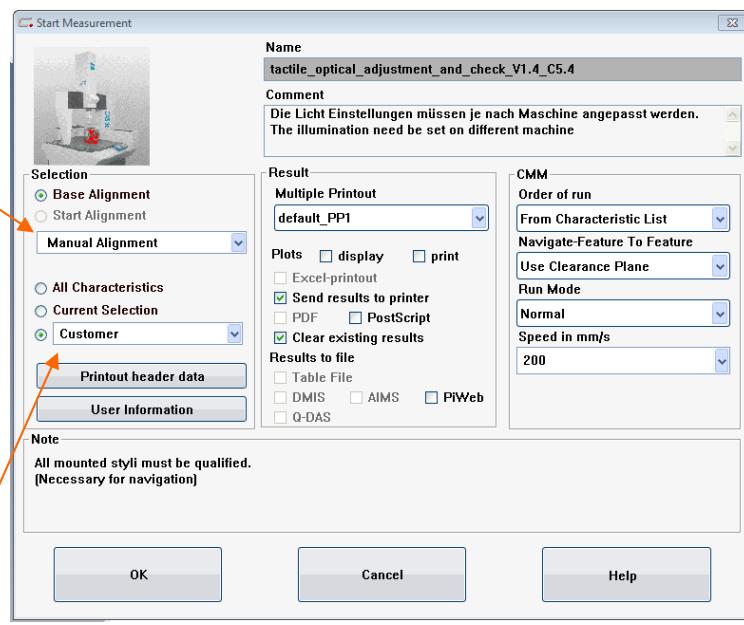


Image 2: Run Menu

5: Click OK. The Routine Can Take up to 20min to Run. The Machine will Adjust itself Accordingly.

6: Verify the Calibration by Creating a New Routine. Measure the Ring Gage ID with the Camera (1.61x Recommended), then with Any Calibrated Touch Probe. The Centers of the Circles Should be Concentric to within .0002". It is Recommended that you Create a Level Plane on the Top Surface of the Ring Gage before Measuring the Ring Gage ID.