ZEISS

🏠 Home

⠿ Services ⌃

Download Center

License Manager

ZEISS Academy

Service Requests

ZEISS Center Finder

My Voice

Knowledge Base

❗ Contact us

➕ Invite Colleague

‹

How can we Help?

Search FAQs and Documentation

Calypso: Base Alignment Match

**Written by** Jason Jonassen

ZEISS

Base Alignment Match

Base Alignment Match utility is very useful for difficult-to-measure parts due to size or fixturing constraints. If you are set to measure a part that is too big for your table, you can measure all characteristics on one side of your part, then measure an extra set of features, move your part, remeasure a set of features, and continue your program. When selecting these "base alignment match" features, they should be features that can be measurable/accessible from both ways you fixture your part on the table. When faced with a part that cannot be evaluated fully in one fixture, the base alignment match will allow you to effectively join measurements on two different part positions into one single program and result.

1. Program all of the characteristics on your part which can be accessed from the first placement of the part.

Diameter1

Roundness1
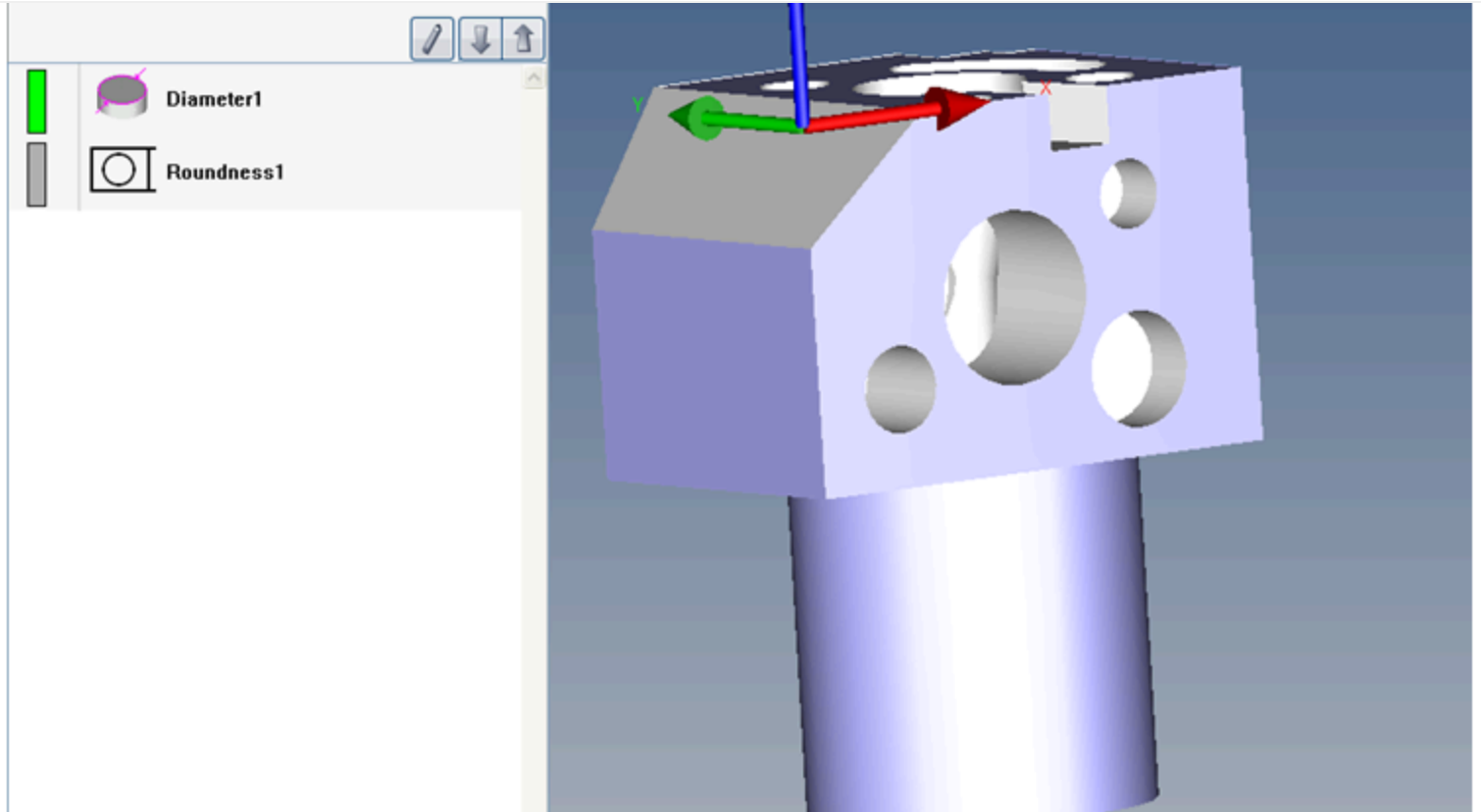
2. Navigate to Resources->Utilities->Base Alignment Match3. Click and

ZEISS

- 🏠 Home
- ⊞ Services   ⌄
  - Download Center
  - License Manager
  - ZEISS Academy
  - Service Requests
  - ZEISS Center Finder
  - My Voice
  - Knowledge Base

- 💬 Contact us
- ⊕ Invite Colleague

Stylus system   ▸
Measurement Plan   ▸
Measurement Plan Information
Features representation...
Features Settings Editor...
Characteristics Settings Editor...
Compatibility Settings ...   ▸
Measurement Plan Comment...
Preassignment for New Features...
Save / Load Defaults. ..
Space Point Mode...
Define printout
Printout header parameters...
Results to File...
Name for output files   ▸
Design custom printout   ▸
Utilities   ▸   ⬅
Function call   ▸

- Alignment
- 3D Best Fit Alignment
- RPS Alignment
- P6 Alignment
- Geometry Best Fit
- Alignment from Several Curves
- Probing system qualification
- Qualification of stylus system holders
- Gauge Correction Qualification
- Erosion Module
- Textelement
- Graphics Element
- Save Alignment
- Load Alignment
- Delete Alignment
- Base Alignment Match   ⬅
- Set Base Alignment to zero

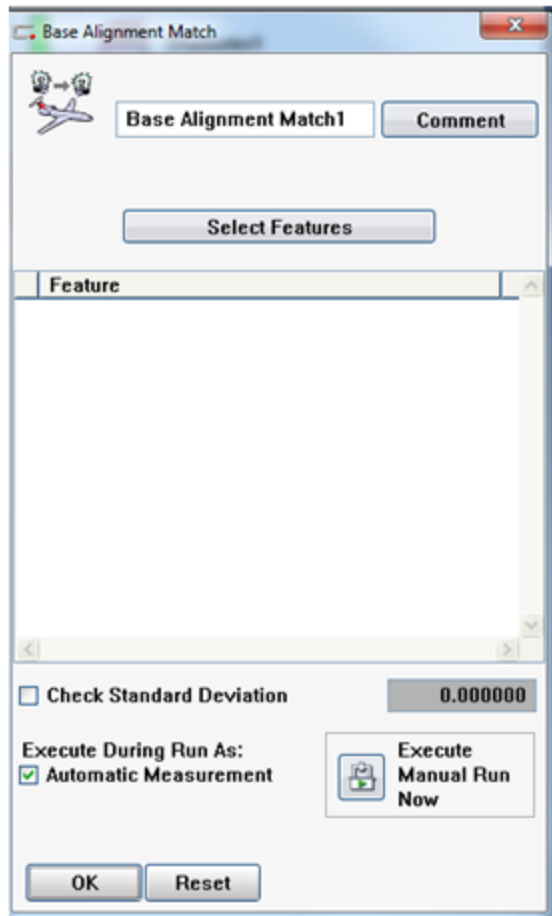3. Click and add a "Base Alignment Match" to your characteristics tab.

Home

Services   ⌃

Download Center

License Manager

ZEISS Academy

Service Requests

ZEISS Center Finder
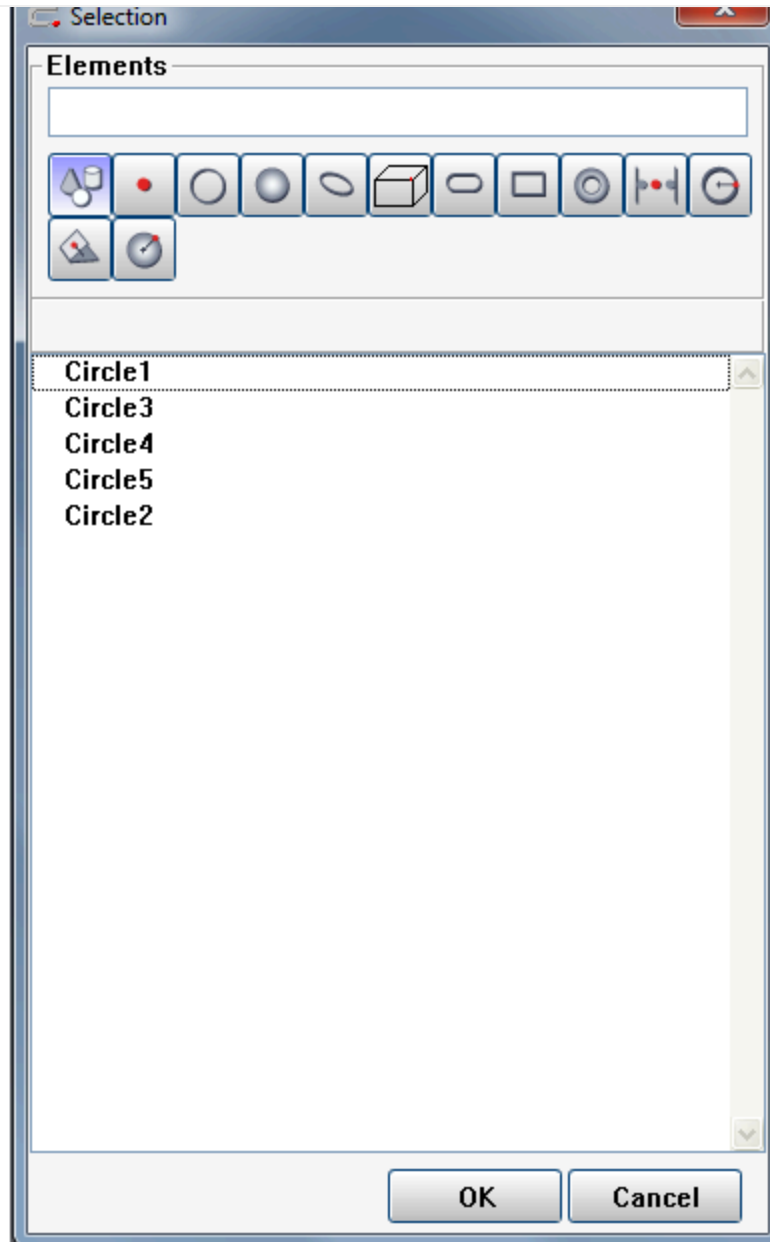
My Voice

Knowledge Base

Contact us
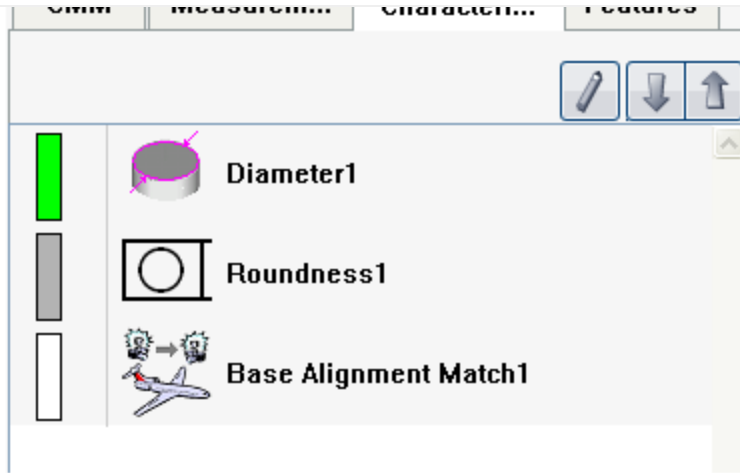
Invite Colleague

4. Open your Base Alignment Match characteristic.

At this point, a selection window pops up. You can choose any feature in this window that simplifies down to a single (x,y,z) location in space, such as a circle, symmetry point, sphere, etc. The features you select here **must be measurable in both part orientations**, as it will measure the features and prompt you to manually re-measure them to perform its match calculation.
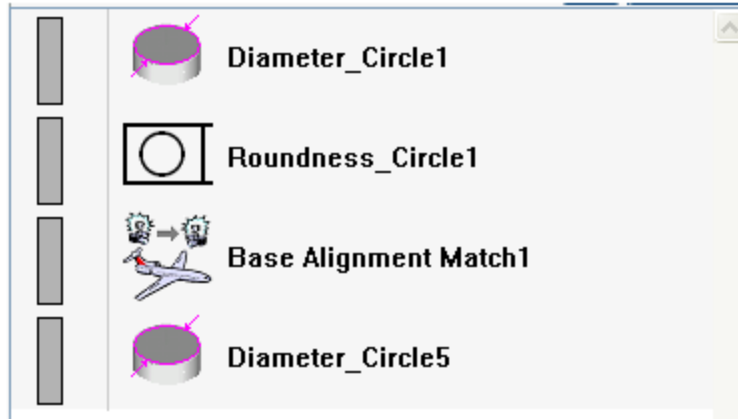
Make sure that the part is placed with the correct position and orientation as the first set of listed features (before Base Alignment Match) requires.

1. Run your program. When your program finishes the first set of characteristics and reaches the Match, it will automatically measure the features that you have selected in step 5 in the current position. Once it is done, you will receive the following window:
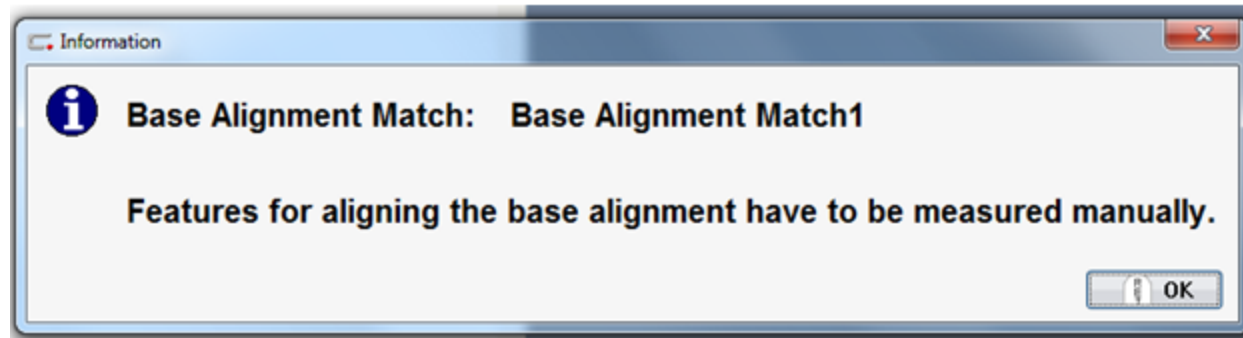
At this point, move the part to the new location or orientation within the measuring volume. Once you press OK, it will prompt you to begin manually probing the features.
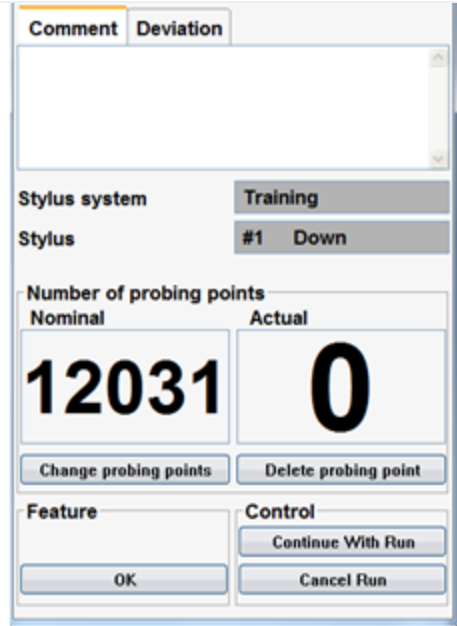
Manually probing the features will look identical to a normal manual alignment, however when the run is finished, it will snap the known geometries measured in both placements into one single measurement and report.

Need additional help?

+ Service Request   💬 Community   🖅 Contact Support

ZEISS

Home

Services

Download Center

License Manager

ZEISS Academy

Service Requests

ZEISS Center Finder

My Voice

Knowledge Base

Contact us

Invite Colleague