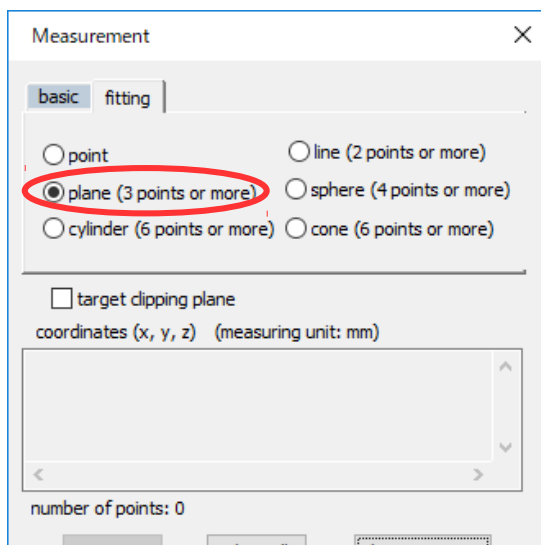
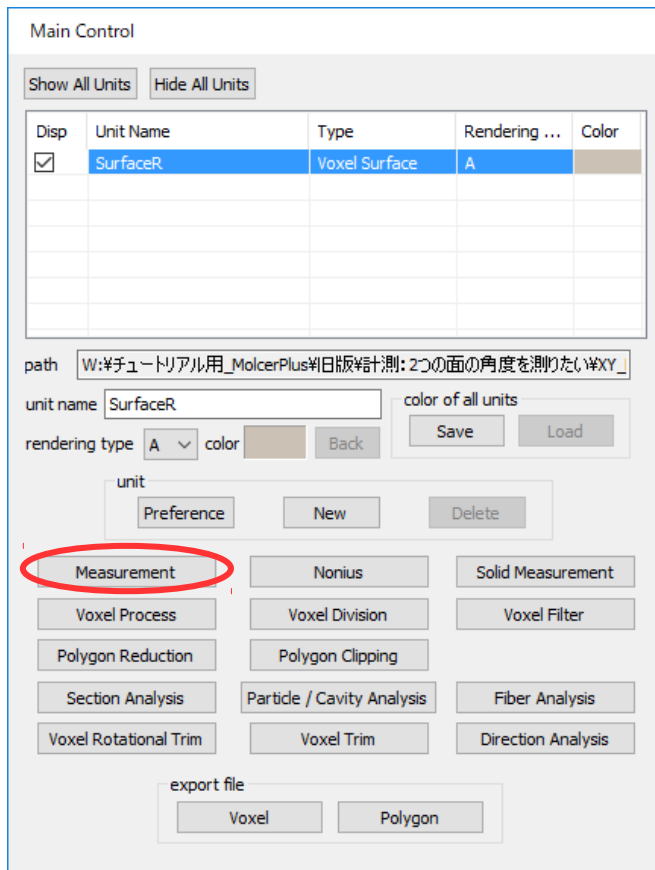


# Measurement: angle between two planes

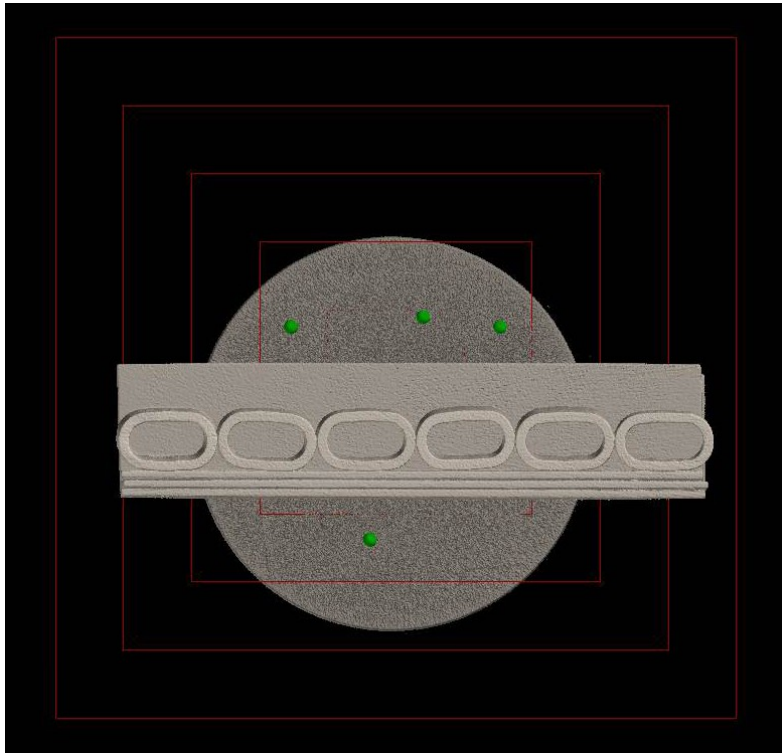
Set two arbitrary planes on object and measure angle between them.

Change to "Surface Rendering" and open "Measurement" dialog from "Main Control".



Show "fitting" tab and select "plane (3 points or more)".

Click on the target face over three times (green points) to define plane (red squares) and press "Set".



Measurement ✕

basic fitting

point  line (2 points or more)

plane (3 points or more)  sphere (4 points or more)

cylinder (6 points or more)  cone (6 points or more)

---

target clipping plane

coordinates (x, y, z) (measuring unit: mm)

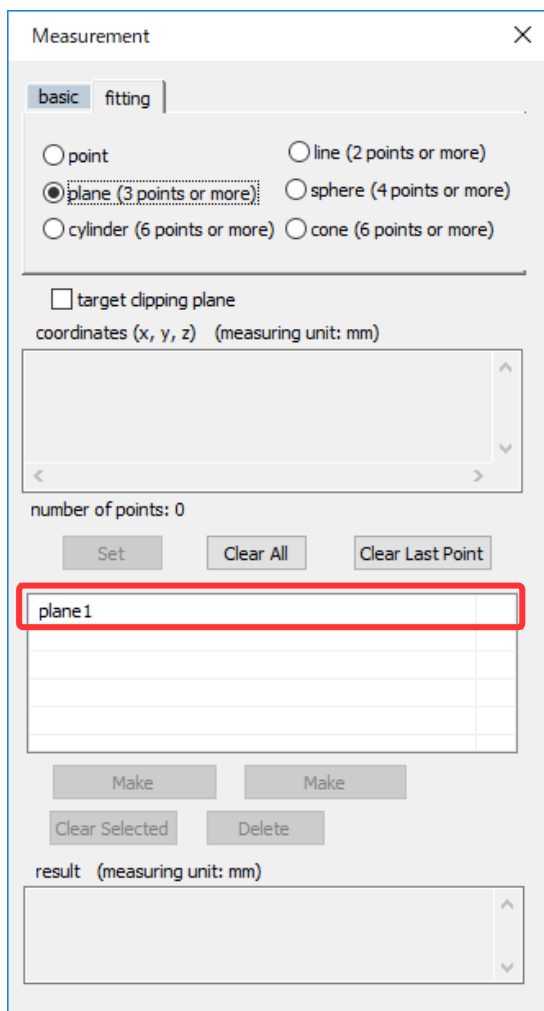
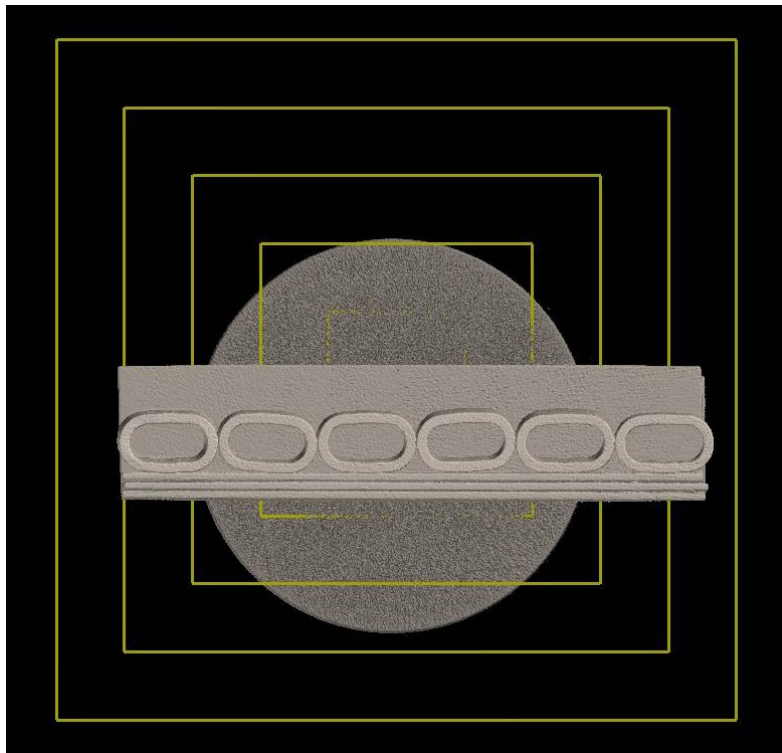
-3.58591, 7.64462, -27.4685
5.34283, 2.33399, -27.4682
-3.54815, -3.0382, -27.4683
3.30782, -9.02393, -27.4391

number of points: 4

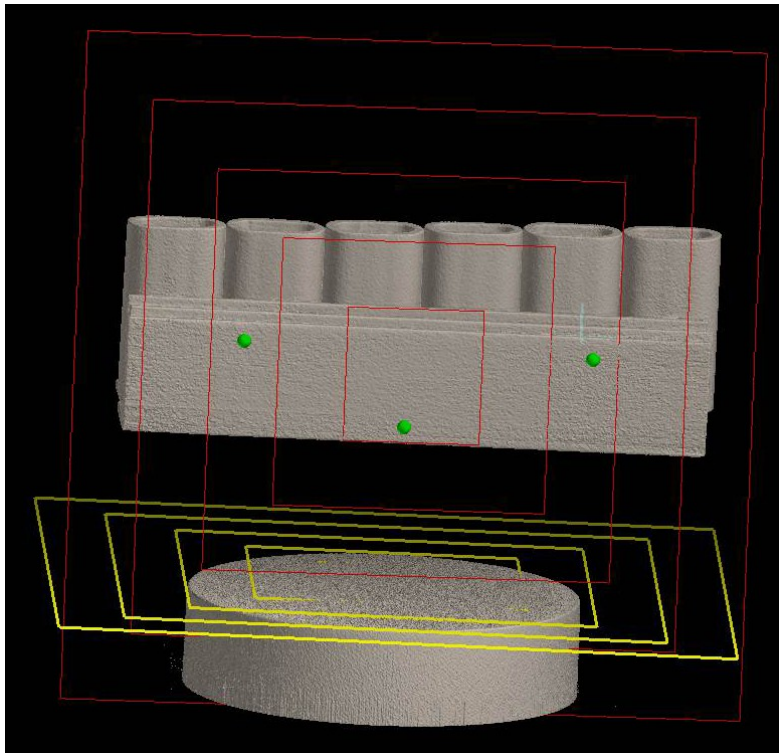

result (measuring unit: mm)

mass of Points = 0.379148, -0.520883, -27.461
normal vector = -0.000562239, 0.00150274, 0.999999
standard deviation = 0.00735098

Defined plane is drawn by yellow wireframe and "plane1" is added to list.



Click on another face over three times (green points) to define another plane (red wire frame) and press "Set".



Measurement ×

basic fitting

point  line (2 points or more)

plane (3 points or more)  sphere (4 points or more)

cylinder (6 points or more)  cone (6 points or more)

target clipping plane

coordinates (x, y, z) (measuring unit: mm)

```
0.219527, 12.7161, -17.1615
-7.79679, -9.50977, -17.1145
7.03371, -11.1784, -17.2122
```

number of points: 3

**Set** Clear All Clear Last Point

plane 1			

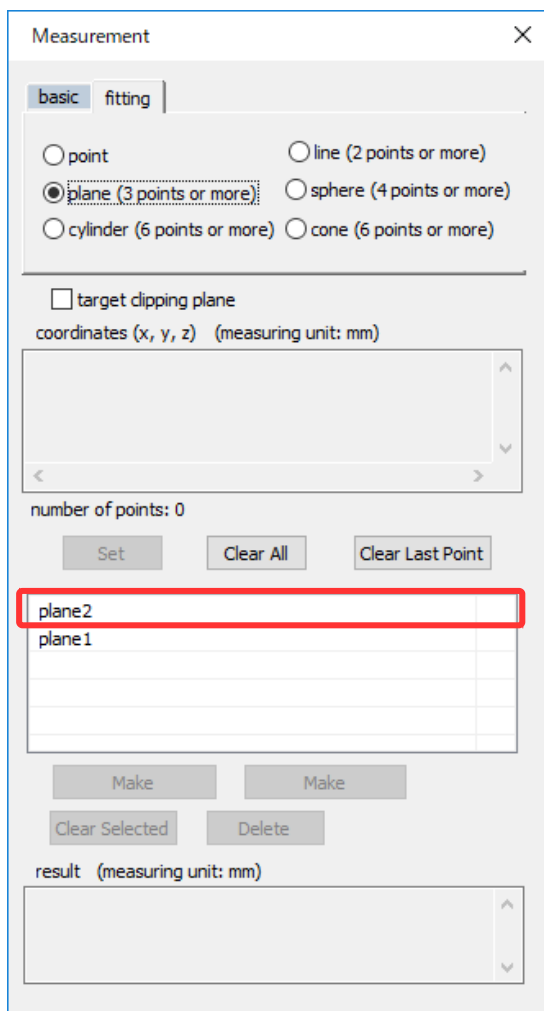
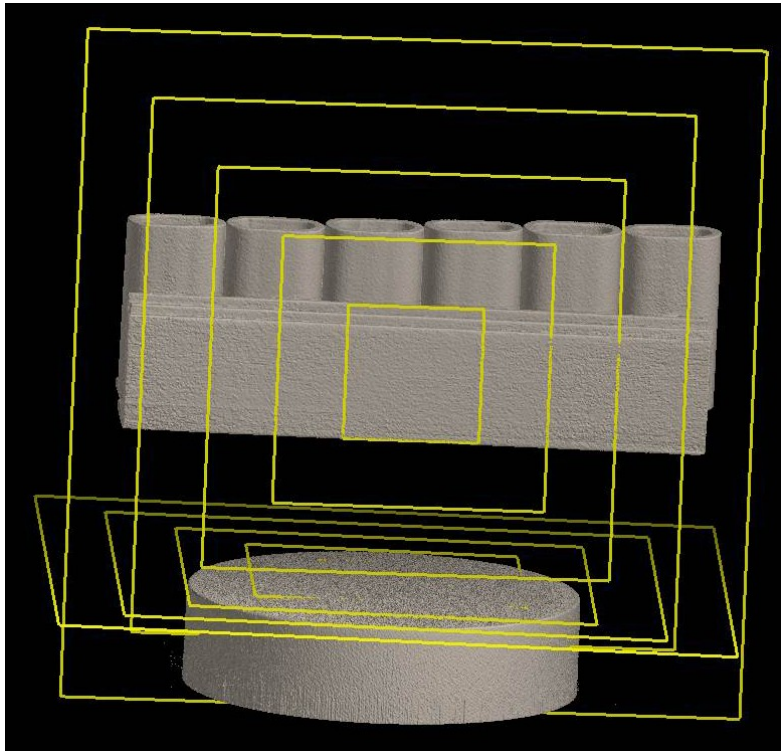
Make Make

Clear Selected Delete

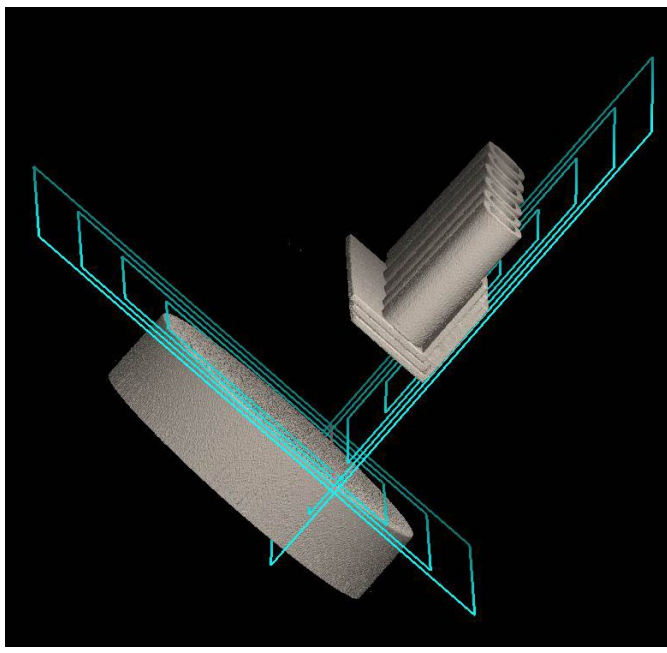
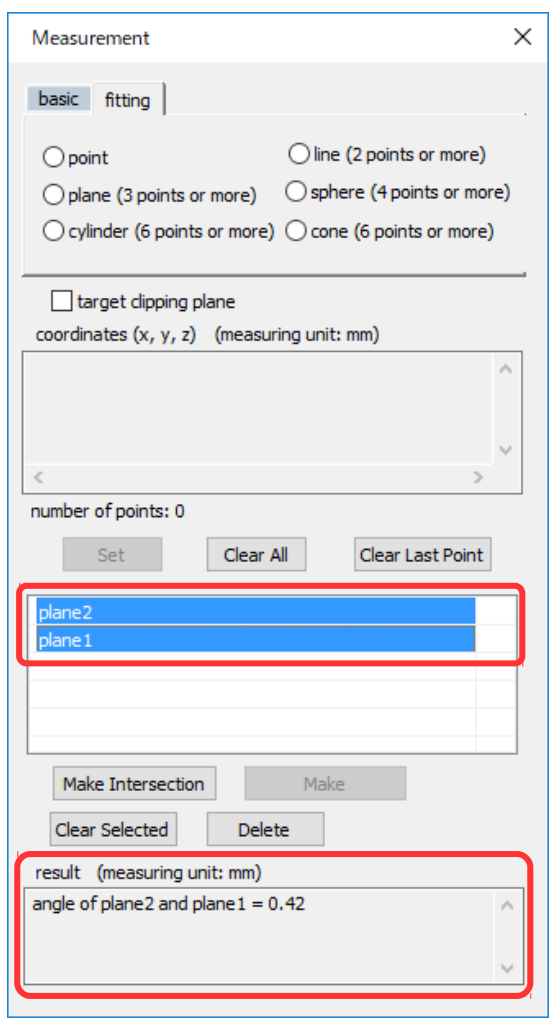
result (measuring unit: mm)

```
mass of Points = -0.181182, -2.65735, -17.1627
normal vector = 0.0065595, -0.000252573, 0.999978
```

Defined plane is drawn by yellow wireframe and "plane2" is added to the list.



Select "plane1" and "plane2" by Ctrl + click and "angle between plane2 and plane1" is shown in "result" area. Selected planes are drawn by cyan wireframe and intersection of "plane1" and "plane2" is drawn red.



Enlarged view around intersection

