**Problem 2-11:** A coordinate measuring machine has sampled the surface of a shaft feature at a particular cross section and has generated the planar pattern of points shown below. The shaft size limits are 14-15 mm and the circularity tolerance is 0.1 mm. The gage is a planar pair of concentric circles with a radial separation of 0.1 mm. Grab the GO gage with a mouse and move it to see if the entire pattern of points can be fit inside the gage tolerance zone. You can use the usual controls to make the circles bigger or smaller. Assume the radial separation remains the same 0.1 mm as the circle sizes change (it does not but assume it does). Can the points fit inside the tolerance zone for a suitable size gage?

Gage

Note: By holding the ALT key you can move the circles smoothly. Use the mouse along with the Shift key to change the size of the circles.