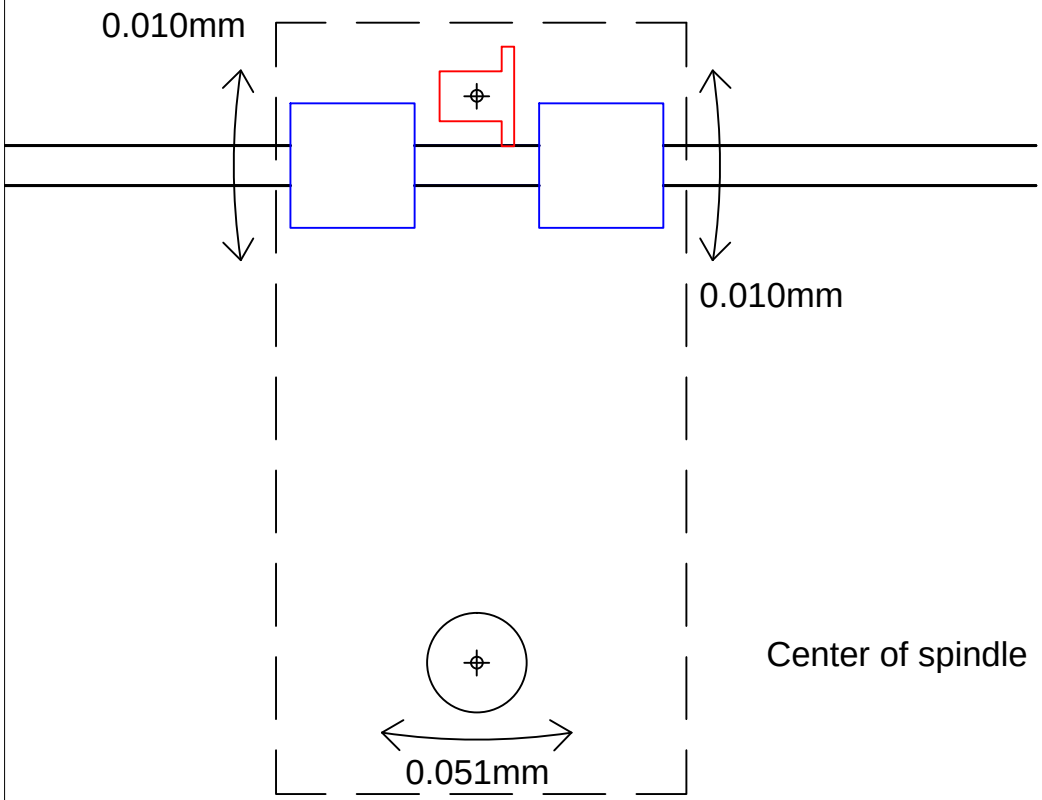
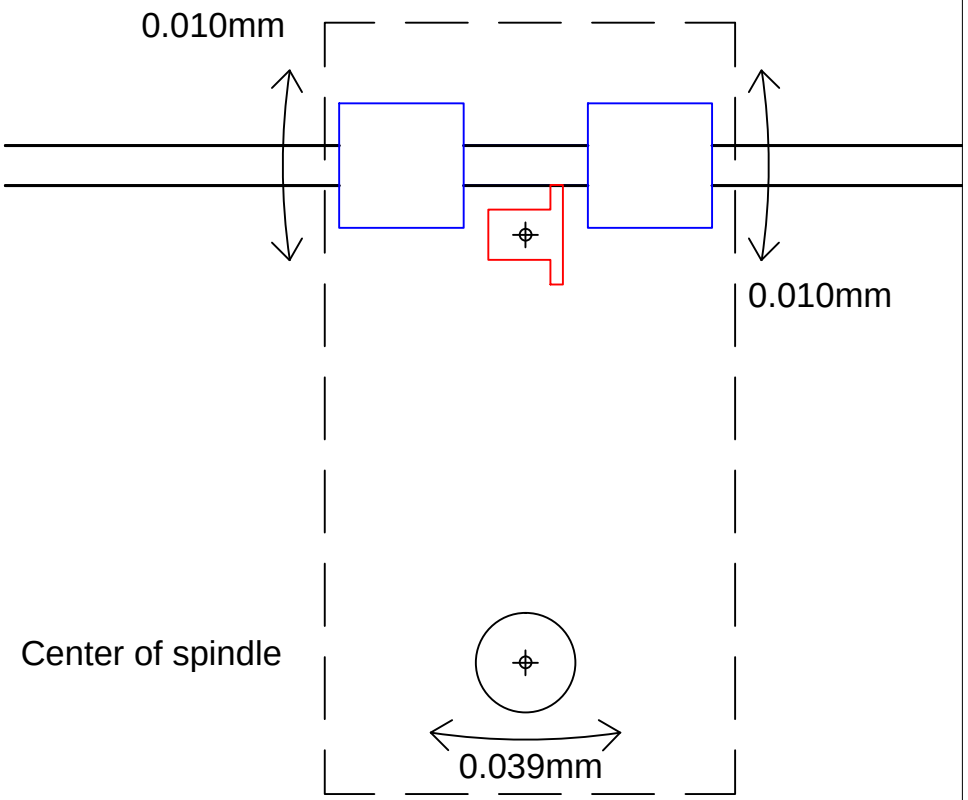
Plan of y/z axis

Ball screw behind rails



Plan of y/z axis

Ball screw in front of rails



Assuming the ball screw is fixed and provides the pivot point then any radial clearance in the bearings will translate to movement at the spindle nose. placing the ball screw behind the rails increases the lever arm distance and therefore the displacement at the spindle. Note: both arrangements place radial loading on the screw. Optimal ball screw placement is in line with the rails as this minimizes the radial loading. .