

PROBE CHORD ERROR COMPENSATION

ABSTRACT OF THE DISCLOSURE

Probe chord error compensation is provided in a machine tool (10) including a rotary member (16) for supporting a work piece (28) and a probe (26) having a path of travel. The compensation is accomplished by using the probe (26) to measure an observed diameter of the work piece (28) and then determining the crossover error of the machine tool (10). The observed diameter and the crossover error are then used to compute the work piece's actual diameter, thereby compensating for any probe chord error.

Figure 3.