

METHOD FOR EVALUATING BURNISHING ELEMENT CONDITION

ABSTRACT OF THE DISCLOSURE

A method of evaluating the condition of a rolling burnishing element includes moving a burnishing element having an unknown condition against a surface in a preselected test pattern; while moving the burnishing element, recording at least one test force profile representative of a force acting on the burnishing element in at least one dimension; and comparing the at least one test force profile to at least one baseline force profile to determine a deviation of the condition of the second burnishing element from a baseline condition.

Figure 1