Tool wear and breakage monitoring system - Automotive application Machining Valve seats www.digitalwaygroup.com **Derivative** Monitoring valve seat machining in cylinder heads on machining centers. Quality control Broken insert Power Avoid scrap parts -322.2 Optimize tool service life By monitoring the power derivative, the Valve seat machining is an important step in WattPilote detects even minor insert the fabrication of a cylinder head. damage with high reliability and Subsided valve seat The slightest mark on a valve seat can cause a guaranties the close tolerances of all decrease in pressure in the cylinder and cylinder heads as well. WattPilote consequently a reduction in engine power. assures the quality of your machining operations. Tool wearand apply the apply of the part of Upper wear threshold To avoid making serap motors even before assembling the motors, WattPilote examines every power curve in order to detect the slightest irregularities on the cylinder head (for example an excessive recess of the valve seat). WattPilote eliminates scrap parts. New tool Tool condition changes during 6000 consecutive machining cycles **Digital Way Group**

Changing tools at a pre-determined service life inevitably leads to irregularities and, even worse, to insert breakage. As you approach the given tool change, the tool temperature increases significantly and the cutting tips warp. Tool management via wear monitoring allows optimal insert performance and a considerable reduction of scrap at the same time. **WattPilote optimizes tool service lifetime and lowers the cost of production**.

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