

Tool wear and breakage monitoring system - Automotive application

Wheel suspension pivot

www.digitalwaygroup.com

On all 18 stations of a transfer machine at PCI, WattPilote systems monitor every operation required for the fabrication of pivot wheel suspensions.

In order to detect any divergence from specification, every pivot is monitored during its entire fabrication process.

After a 12-month application period, a net profit gain could be demonstrated on every phase of the operations (milling, boring, tapping, and finish boring).

► Quality control

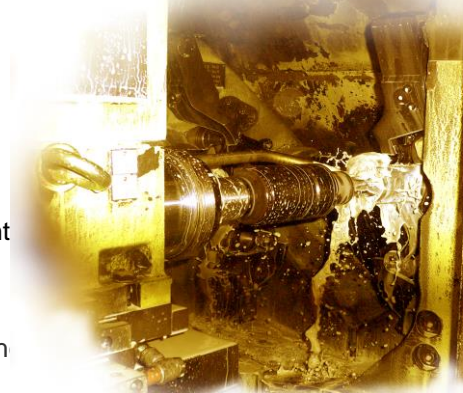
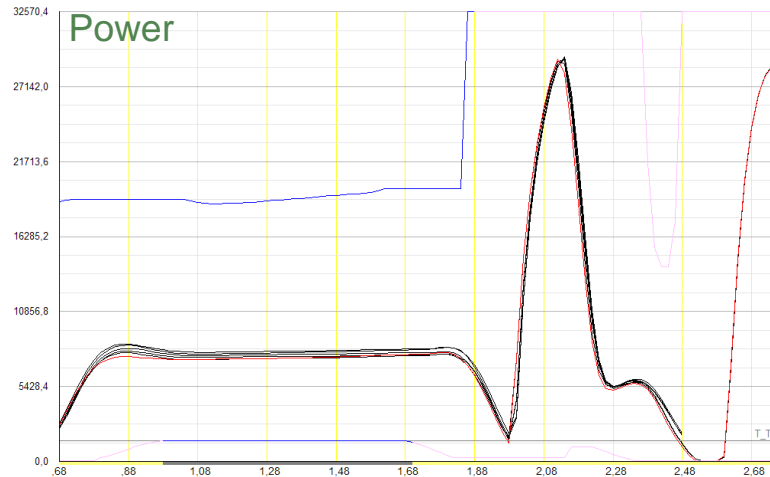
Detection of out-of-tolerance parts
Detection of damaged reamers
Detection of double machining

► Avoiding scrap parts

Immediate detection of tool breakage prevents part damage

► Optimizing tool life

Reaming tool life is increased by monitoring the roughing tools



Statistics after a 12 month application period

Detection of badly positioned parts	100 %
Detection of non-inserted tool breakage	100 %
Detection of broken inserts	100 %
Elimination of scrap parts	100 %
Increase in tool lifetimes	35 %
Total cost savings on the machine	40 %



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