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Dinh Son Nguyen



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Tool Wear and Tool Life in Micro-milling Under Dry and MQL Conditions Shreyas Shashidhara,2013 **A Study of Accelerated Tool Wear of High Speed Cutting Tools While Machining SAE 4140 Steel** Douglas A. Larson,1996 Tool Wear and Inclusion Behaviour During Machining of Ca-treated Steels Anders Nordgren,1993 **Tool Wear Mechanism of Difficult-to-cut Materials** Dinh Son Nguyen,2020 However to attain the best performance the MQL conditions such as nozzle orientation and the concentration of xGnP must be optimized

Real-time Monitoring of Micro End Milling for Tool Wear and Tool Breakage Jason Robert Dunklee,2005 *The Fundamental Relationship Between Tool Wear, Surface Integrity, and Fatigue in Milling of Difficult-to-cut Alloys* Wei Li,2013 Tool wear is the critical factor to determine machining economy since it is directly related to tool life and the overall cost of production Surface integrity surface finish microstructure residual stress microhardness and surface chemistry and service performance e g fatigue life of machined components can be also adversely affected by tool wear because they deteriorate to an unacceptable level with the progression of tool wear Therefore it is necessary to understand and establish the basic relationship between tool wear surface integrity and fatigue performance in order to give a general guidance for producing as many quality parts as possible while minimizing machining costs This study starts with a critical assessment of literature on surface integrity in machining of difficult to cut alloys To significantly improve the accuracy and repeatability of tool wear measurement a novel online optical tool inspection system has then been developed to integrate with a CNC machining center to monitor tool wear in milling The progression of tool flank wear of PVD coated inserts in end milling of AISI H13 tool steel and Inconel 718 superalloy were presented to demonstrate the function of the optical tool inspection system A Taguchi design of experiment based dry finish milling of AISI H13 tool steel 50 1 HRc with Ti Al N TiN coated cutting tools was conducted to investigate the process induced surface integrity The mechanism of surface integrity in hard milling was investigated to understand the effects of mechanical thermal loads on surface microstructure and properties The microstructure microhardness and residual stresses were characterized A phase transformed white layer was not observed in

the context of concerned process parameters The milled surfaces are characterized by the increased microhardness and high compressive residual stresses which are beneficial for improving fatigue performance and wear resistance of the machined components Finally the process design space for the desired surface integrity has been established via the microhardness and residual stress maps By using the online optical tool inspection system tool wear effect on surface integrity and fatigue life of AISI H13 tool steel by dry hard milling using PVD coated tools are studied The evolutions of surface integrity were characterized at different levels of tool flank wear At each level of tool flank wear the effects of cutting speed feed and radial depth of cut on surface integrity were investigated respectively It shows that surface roughness in the step over direction is much higher than that in the feed direction under all the milling conditions The increased tool wear did not necessarily produce a rougher surface in both directions Optical images of the subsurface microstructure of the machined samples do not show a noticeable white layer or heat affected zones which may be explained by the characteristic of periodic tool work contact in milling compared to turning and grinding Residual stresses are compressive in both directions and are more compressive in the step over direction than the feed direction Four point bending fatigue tests were performed using the samples machined at different flank wear conditions The results show that generally a worn tool reduces fatigue life and the larger the tool wear the shorter the fatigue life The fractured surfaces of fatigued samples were characterized Fatigue endurance limits of the machined surfaces at different reliability levels were estimated and correlated with the experimentally determined fatigue life Tool wear effect on surface integrity and fatigue life of Inconel 718 superalloy by milling using PVD coated tools are also studied The evolutions of surface integrity including surface roughness microstructure and microhardness were characterized at three levels of tool flank wear VB 0 0 1 mm 0 2 mm At each level of tool flank wear the effects of cutting speed feed and radial depth of cut on surface integrity were investigated respectively End milling can produce surface finish between 0 1 μ m and 0 3 μ m under most of the conditions Roughness is generally higher in step over direction than feed direction No obvious white layer is observed in subsurface microstructure The machined surface is significantly work hardened due to the dominant mechanical loading Four point bending fatigue test shows that none of the milled samples failed within four million cycles Fatigue endurance limits of the machined samples at different reliability levels were calculated and correlated with the experimentally determined fatigue life

Consideration of Certain Aspects of Tool Wear During High Speed Machining Walter Arthur Dumas,1961 *Tool Wear Characterisation and Parameter Optimisation in Micro-manufacturing Processes* Lisa Alhadeff,2019 *Modeling of Tool Wear and Tool Fracture in Micromilling* Dominic Shiosaki,2012 Micromachining is the next generation of precision material removal at the micro scale level due to the increase in miniaturization of commercial products The applications of this technology extend anywhere from electronics to micro scale medical implants Micromilling has the potential to be the most cost effective and efficient material removal process due to ease of use and accessibility of the tools This research analyzes vibration of a high

speed spindle and then studies micromilling of aluminum and titanium Finite element analysis and tool modeling compliment experimental data Cumulative tool wear based on Taylor model shows decreasing tool life with increasing feed rate and increasing cutting speed on aluminum Inconsistent results are seen when micromilling titanium due to premature chipping of tool noses A significant nose wear plastically deforms a micromilled subsurface and is verified with microstructure study and microhardness measurements

Modeling of Tool Life and Micro-mist Flow for Effective Micro-machining of 316L Stainless Steel Saurabh Kajaria,2011 Recent technological advancement demands new robust micro components made out of engineering materials The prevalent methods of manufacturing at micro nano level are established mostly for silicon structures Therefore there is interest to develop technologies for micro fabrication of non silicon materials This research studies microend milling of 316L stainless steel Machine tool requirement tool modeling cutting fluid evaluation and effect of cutting parameters are investigated A machine tool with high rigidity high spindle speed and minimal runout is selected for successful micro milling Cumulative tool wear and tool life of these micro tools are studied under various cutting conditions Ideal abrasive wear is observed when applying mist cooling whereas inter granular shearing is the major failure mode while flood cooling or dry cutting during micro machining Various experiments and computational studies suggest an optimal position of the mist nozzle with respect to a tool that provides maximum lubrication at the cutting edge Mist droplets effectively penetrate the boundary layer of a rotating tool and wet the cutting edge and significantly improve the tool life

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