

Troubleshooting Thread Milling



Solutions

Problems	Possible Cause	Reduce cutting speed	Increase feed rate and reduce radial passes	Check coolant pressure/flow direction	Check stability	Reduce feed rate	Add radial passes	Increase cutting speed	Reduce overhang	Use zero compensation	Check CNC program	Adjust cutting conditions	Add sufficient coolant	Reduce cutting conditions	Clamp tool to the minimum overhang length	Adjust feed/speed	Check tool and workpiece clamping
Flank Wear	High cutting speed	●															
	Chip too thin		●														
	Insufficient coolant			●													
Fracture/ Chipping	Vibrations				●												
	High load on cutting edge					●	●										
Build up edge	Cutting speed too low							●									
	Insufficient coolant			●													
Thread Surface Chatter Marks /Vibrations	Feed rate is too high					●											
	Large profile						●										
	Thread length is too long						●		●								
Thread Accuracy (GO/NO GO Gauge)	Tool deflection					●	●			●							
	CNC program error										●						
Insert/Tool Breakage	High load on the cutting edge						●										
	Im proper cutting conditions															●	
	Chip Evacuation												●				
	CNC program error										●						
Tapered Thread	Tool cutting load						●							●			
	Tool overhang														●		
Short Tool Life	Unsuitable cutting condition															●	
	Vibrations														●		●

