



GUNDRILL PROBLEM SOLVING

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Possible Cause	Outside Point Wear	Wear Pad Erosion	Built Up Edge	Crater- ing	Margin Wear		Poor Tool Life	Tool Pick Up	Tool Chip- ping	Tool Break- age		oor nish	Hole Run- out	Tight Exit	Bell Mouthed	Banana Shaped	Out of Round	Under- sized	Over- sized
Bushing																			
Clamping unsuitable																			
Oversized																			
Undersized																			
Workpiece not																			
against bushing																			
Coolant				_															
Incorrect grade Insufficient flow		•		•	•			•											
Loss of pressure						•		•										•	
Overheating																			
High pressure																			
Low pressure																			
Feed																			
Erratic							•		•										
Excessive			•	•			•						•		•	•			
Insufficient									•										
Material Grain structure	•																		
Heat treatment faults	•		•						•										
Overheating and closing In																			
Thin wall section																			
Misalignmen	Ŀ	•			•														
Poor Braze																			
Rough Grind	On Cutting	Edge	S																
Spindle																			
Speed high	•																		
Speed low			•	•									•						
Tight Hole					•														
Tool Built up edge																			
Chip control inadequate																			
Insufficient clearance						•							•			•			
Incorrect contour (profile)								•											•
Excessive inside angle pressure															•				
Excessive outside angle pressure														•				•	
Incorrect geometry	•																		
Heel drag													•			•			
Overworked (need regrind)																			
Whip													•		•	•	•		•
Vibration Mechanical									•			•							
Oil	14!																		
Wear Pad Cu	tting																		