Common Wear Patterns: Cause & Remedy



Flank Wear

Cause: Too high cutting speed, insufficient wear resistance

Remedy: Reduce cutting speed, select a more wear resistant grade

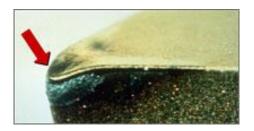


Crater Wear

Cause: Too high cutting temperature

Remedy: Reduce cutting speed, select a more wear resistant grade

 $(Al_2O_3 coated grade)$



Plastic Deformation

Cause: Cutting temperature too high, combined with a high pressure

Remedy: Select a harder grade, reduce speed and feed



Built-up Edge

Cause: Too low cutting speed, unsuitable grade

Remedy: Increase cutting speed, choose a tougher grade,

preferably PVD-coated



Chipping

Cause: The chips are deflected against the cutting edge

Remedy: Change the feed, select an alternative insert geometry



Notch Wear

Cause: Cutting speed too high or insufficient wear resistance

Remedy: Select a more wear-resistant grade or reduce cutting speed



