Troubleshooting

5. Chip congestion/cooling

Significant reduction in tool life, chipping on cutting edges, edge build-up of flutes through insufficient chip evacuation

► select milling cutters with internal cooling

Alternative:

- ► peripheral cooling via GM 300 chuck
- ► increase volume flow
- adjust coolant flow
- apply compressed air cooling (according to tool and material)
- ➤ reduce feed rate
- modify cutting distribution
- ► select end mill with fewer flutes

6. Pecking when drilling

Significant reduction in tool life as well as chipping of cutting edges through insufficient chip evacuation and thermal stresses

select milling cutter with internal cooling with drilling depths > 0.5 x D pecking in stages

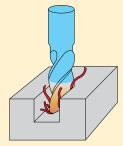
Alternative:

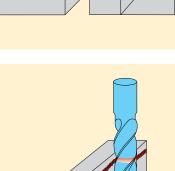
- ► peripheral cooling via GM 300 chuck
- ► increase volume flow
- adjust coolant flow
- reduce feed rate

7. Thermal influence on materials

Through welding or torch cutting, the material characteristics at the parting line do not correspond with the specified material class

- ➤ reduce cutting rates
- > select tool for materials with a higher tensile strength

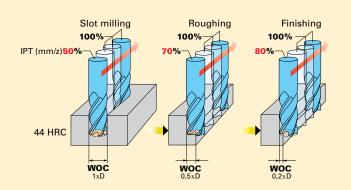




44 HRC 32 HRC

8. Entry in hardened materials

For entering materials over 44 HRC, reduce the feed rate IPT in accordance with the illustration on the right



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