

ABSTRACT

Cemented Carbide Base Outer Blade Cutting Wheel And Making Method

5 An outer blade cutting wheel comprising an annular
thin disc base of cemented carbide and a blade section of
metal or alloy-bonded abrasive grains on the outer periphery
of the base is provided. The abrasive grains are diamond
and/or cBN grains having an average grain size of 45-310 μm
and a TI of at least 150. The blade section includes
10 overlays having a thickness tolerance ($T3_{\text{max}} - T3_{\text{min}}$) of 0.001 mm
to $0.1 \times T2_{\text{max}}$ mm. The blade section has a roundness
($OD_{\text{max}}/2 - OD_{\text{min}}/2$) of 0.001 mm to $0.01 \times OD_{\text{max}}$ mm.

Figs. 1A - 1C