ABSTRACT

Cemented Carbide Base Outer Blade Cutting Wheel And Making Method

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 overlays having a thickness tolerance ($T3_{max}$-$T3_{min}$) of 0.001 mm to $0.1 \times T2_{max}$ mm. The blade section has a roundness ($OD_{max}/2$-$OD_{min}/2$) of 0.001 mm to $0.01 \times OD_{max}$ mm.

Figs. 1A - 1C