

Outer Blade Cutting Wheel and Making Method

ABSTRACT

In an outer blade cutting wheel comprising an annular
5 thin disc base of cemented carbide having an outer diameter
of 80-200 mm, an inner diameter of 30-80 mm, and a thickness
of 0.1-1.0 mm, and a blade section disposed on an outer
periphery of the base, the blade section comprises diamond
grains and/or CBN grains bound with a metal bond having a
10 Young's modulus of $0.7-4.0 \times 10^{11}$ Pa and has a thickness which
is greater than the thickness of the base by at least 0.01
mm. The outer blade cutting wheel is capable of cutting a
workpiece at a high accuracy and a reduced allowance,
improves machining yields, and reduces machining costs.

FIG. 1