

OSK Cutting Technology Co. Ltd.

Application of OSK tool SM Series in IT industry





Customer: an international famous factory

Parts: a brand mobile phone motherboard Material Science : SUS304



Judgment standard:

With a knife in the blank surface and the lateral surface of, 10 high-speed feed processing surface layer, side + rough refinement, under the same conditions, the comparison of tool price workpiece surface roughness degree requirements Ra1.6-3.2, hope processing 80PCS workpiece tool life approximately 10 hours

Processing equipment : FANUC



Tool: SM4BD0600R050S06 Tool edge diameter: 6.0mm Tool R angle: 0.5mm Cutter blade number: 4

Plane processing parameters: S8000 r/min F4000 mm/min Ap:0.15-0.2mm Ae:4.0 mm

Side processing parameters: S8000 r/min F4000 mm/min Ap: 8.0mm Ae:0.3-0.1mm



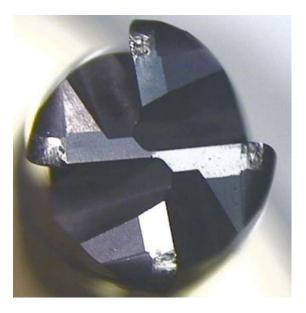




Processing result:

After processing 80PCS, the tool has no obvious wear and tear. Ra1.6, can continue processing After processing 200PCS, the tool R corner and the bottom edge of the obvious wear, Ra>3.2, but the side edge intact, stop processing.





After machining 200PCS Tool bottom edge wear





OSK this tool to process the workpiece in large quantities in the use of the average life expectancy in the 200PCS, far greater than can be required 80PCS The average life expectancy of a Taiwan brand tool is 80PCS

The average life of a Japanese brand tool in 180PCS

OSK this tool features share:

The special stainless steel imported tungsten steel bar Special coating for stainless steel Cutting tool design: the design of non equal division and R angle





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The End Thank You Very Much