

Title:

Why Does The Tool Bit Break Easily In Micro Milling?

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Summary:

While micro milling has been successfully applied in manufacturing bio-medical components, emb

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Article Body:

Micro milling is one of the three common micro cutting techniques used in micro machining.

In micro milling, the tool bit with diameter as small as 0.1mm is held in a high speed spindle

While micro milling has been successfully applied in manufacturing bio-medical components, emb

Why does the tool bit break so easily in micro milling as compared to conventional milling?

There are 3 main reasons:

Firstly, when metal is removed by machining, there is a substantial increase in the specific e

Secondly, a sharp increase in cutting forces and stress from chip clogging during the micro mi

Third, the tool bit tends to lose its cutting edge due to built-up edge and cannot machine eff

In view of the above phenomena occurring in micro milling, most micro milling machines are sol

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