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Theoretical and experimental investigation into non-uniformity of surface generation in micro-milling

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**Highlights**

- Micro-milled surface non-uniformity induced by variation of cutting mechanisms is studied.
- An evaluation method and a predition model on the surface non-uniformity are proposed.
- Periodicly changed force osciallitions and surface quality is found with tool rotation angle.
- Feed rate and depth of cut are significantly infleuence surface non-uniformity.

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