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Title: Surface enhancement of cold work tool steels by friction stir processing with a pinless tool

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Highlights

- 1- AISID2 surface processing/enhancement with a pinless tool.
- 2- Surface properties vary with increasing tool rotation speeds.
- 3- Tool slippage takes place at very high tool rotation rates.
- 4- Carbides distribution is enhanced/homogenized during processing.
- 5- Surfaces hardness is deeply increased by processing.

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