

Accepted Manuscript

Title: Study on micro texturing of uncoated cemented carbide cutting tools for wear improvement and built-up edge stabilisation

Author: Johannes Kümmel Daniel Braun Jens Gibmeier
Johannes Schneider Christian Greiner Volker Schulze
Alexander Wanner



PII: S0924-0136(14)00291-X
DOI: <http://dx.doi.org/doi:10.1016/j.jmatprotec.2014.07.032>
Reference: PROTEC 14078

To appear in: *Journal of Materials Processing Technology*

Received date: 4-6-2014
Accepted date: 24-7-2014

Please cite this article as: Kümmel, J., Braun, D., Gibmeier, J., Schneider, J., Greiner, C., Schulze, V., Wanner, A., Study on micro texturing of uncoated cemented carbide cutting tools for wear improvement and built-up edge stabilisation, *Journal of Materials Processing Technology* (2014), <http://dx.doi.org/10.1016/j.jmatprotec.2014.07.032>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

Tool wear shows differences according to rake face texture and texture orientation

Dimple texture leads to a stabilising effect with respect to built-up edge formation

A destabilized BUE formation lead to higher wear rates of cutting tool in dry cutting

Built-up edge formation can be tailored by configurations of surface microtextures

Accepted Manuscript

Download English Version:

<https://daneshyari.com/en/article/7177281>

Download Persian Version:

<https://daneshyari.com/article/7177281>

[Daneshyari.com](https://daneshyari.com)