



Sobron Lubis <sobronl@ft.untar.ac.id>

Review invitation for Jurnal Tribologi (JTRIB-00334-2021-01)

1 message

Jurnal Tribologi <kontakt@editorialsystem.com>
Reply-To: "mohdfadzli@utem.edu.my" <mohdfadzli@utem.edu.my>
To: Sorbon Lubis <sobronl@ft.untar.ac.id>

Wed, Jul 7, 2021 at 6:09 PM

Dear Dr. Sorbon Lubis,

We would like to ask you to review the manuscript: Effect of rake angle and feed rate on tool wear and surface topology in machining carbon steel 1045 (JTRIB-00334-2021-01).

Type of manuscript: Special issue paper

Keywords: Turning Process, Rake Angle, Tool Wear, Surface Topography, Dry Machining

Abstract:

This paper proposes tool wear and surface topography improvement in cutting carbon steel 1045 through machining process. The problem is solved by employing the different rake angle and feed rate for continuous cutting condition. The improvements result from the difference angle of shim support for the tool holder. The proposed method overcomes the problems associated with low tool life limit for the insert, which affects the tool wear and surface finish. The manipulation of rake angle utilises the usage of insert in turning process commonly used to reduce the machining cost and enhance the tool life. Tests are carried out using carbon steel 1045 as workpiece material and chip breaker CNMG 120412 as tool insert under dry machining conditions. Results indicated that the lowest the tool wear, the better surface topography and the better chip type could be achieved at a feed rate of 0.4 mm/rev and a rake angle of -9° . The proposed method reduces machining cost by enhancement of tool life by utilising the usage of cutting tool and machining time.

Invitation deadline: 2021-07-14 (7 days)

Review deadline: 2021-07-28 (21 days)

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Alternatively, you may sign in to your account and respond to this invitation:

<https://www.editorialsystem.com/jtrib/>Email: sobronl@ft.untar.ac.id

Password: z*****

Best regards,
Mohd Fadzli Bin Abdollah
Editor-in-Chief
Jurnal Tribologi

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Sobron Lubis <sobronl@ft.untar.ac.id>

Review of the manuscript number JTRIB-00334-2021-01

2 messages

Jurnal Tribologi <kontakt@editorialsystem.com>
Reply-To: "mohdfadzli@utem.edu.my" <mohdfadzli@utem.edu.my>
To: Sorbon Lubis <sobronl@ft.untar.ac.id>

Wed, Jul 7, 2021 at 8:04 PM

Dear Dr. Sorbon Lubis,

Thank you for accepting the review invitation concerning the manuscript entitled: Effect of rake angle and feed rate on tool wear and surface topology in machining carbon steel 1045 (JTRIB-00334-2021-01).

Please note the review deadline: 2021-07-28

View article:

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Review form:

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Best regards,
Mohd Fadzli Bin Abdollah
Editor-in-Chief
Jurnal Tribologi

Jurnal Tribologi <kontakt@editorialsystem.com>
Reply-To: "mohdfadzli@utem.edu.my" <mohdfadzli@utem.edu.my>
To: Sorbon Lubis <sobronl@ft.untar.ac.id>

Wed, Jul 7, 2021 at 8:10 PM

Dear Dr. Sorbon Lubis,

Thank you for sending us the review of: Effect of rake angle and feed rate on tool wear and surface topology in machining carbon steel 1045 (JTRIB-00334-2021-01).

Your reviewer's certificate is available for download:

<https://www.editorialsystem.com/jtrib/certificate/review/434523/f5a22ad0eba422267b925a792ae056d6/>

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JurnalTRIBOLOGI

Certificate of Reviewing

the article entitled

Effect of rake angle and feed rate on tool wear and surface topology in machining carbon steel 1045

Sobron Yamin Lubis

in recognition of a valuable contribution to the quality of the journal

Syahrullail Samion, Editor-in-Chief

2021-07-07

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System**