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**MEST-D-19-01237 - Submission Confirmation**

1 message

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**JMST** <em@editorialmanager.com>  
Reply-To: JMST <editorial@j-mst.org>  
To: hendriko hendriko <hendriko@pcr.ac.id>

Thu, Jul 11, 2019 at 5:26 PM

Dear Dr hendriko,

Your manuscript has been submitted to the Journal of Mechanical Science and Technology (JMST) for possible publication.

The submission id is: MEST-D-19-01237  
Please refer to this number in any future correspondence.

We assume that your manuscript is all of the below.

- 1) Never been published in other journal
- 2) Not scheduled to be published in other journal
- 3) Not currently under review in other journal

If not, please inform Editorial Office at [editorial@j-mst.org](mailto:editorial@j-mst.org) immediately.

Thank you for submission.

With warmest regards,  
Journal of Mechanical Science and Technology

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**Major Revisions requested MEST-D-19-01237**

1 message

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**JMST** <em@editorialmanager.com>  
Reply-To: JMST <editorial@j-mst.org>  
To: hendriko hendriko <hendriko@pcr.ac.id>

Mon, Nov 11, 2019 at 9:34 AM

Dear Dr hendriko,

I have made a decision on your manuscript as 'major revision' based on reviewer's comments and handling associate editor's evaluation on the manuscript. Reviewer's comments are at the bottom of this mail or in the attached file.

I would be happy to reconsider your manuscript after your work is revised significantly. Please address each reviewer's comments and suggestions in the revision properly. Author's response to reviewers in a separate sheet and highlighting modifications in the revision is recommended. The revised manuscript will be sent to the same reviewers.

The revision should be in editable files (i. e. Word).

You have 60 days to revise your manuscript and if you do not submit revision within due date without any notice, your manuscript will be withdrawn from the system. To extend revision due date, please contact Editorial Office at [editorial@j-mst.org](mailto:editorial@j-mst.org)

To revise your manuscript, please access below link:

Your username is: hendriko

If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at <https://www.editorialmanager.com/mest/>.

Thank you for submitting your work to the journal.  
I am looking forward to receiving your future works.

With warmest regards,  
Editor of the JMST

**COMMENTS FOR THE AUTHOR:**

Reviewer #2: The paper cannot be accepted, because of poor novelty.  
The authors have made a similar work published, in a ASME proceedings, way back in <https://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1787031>

The authors could have cited, more works from JMST as well.

Reviewer #3: It is a scientifically interesting paper, which proposes an analytical method for the calculation of cut geometry during 5 axis milling of complex surface. However, in order to accept, the major revision is required. The detailed remarks are as follows:

1. The title of paper could be more synthetic: I suggest the modification to: "Cut Geometry Calculation for Semi-Finish Five-Axis Milling of Non-Straight Staircase Workpiece".
2. In a current form, the introduction section could be not concise for the reader. Introduction is expected to have an extensive literature review followed by an in-depth and critical analysis of the state of the art. If you avoided reference overkill/run-on, i.e. do not use more than 3 references per sentence. If you need to use more, make sure you state the key relevant idea of each reference. I suggest add information to better describe what other researchers have done in this area. Each one of the cited references within the body of the paper should be discussed individually and explicitly to demonstrate their significance to the study.  
Moreover, the problems regarding the relations between the cut geometry/cutting forces and the milling process' effects have not been presented insufficiently in the Introduction. Therefore, please extend the state-of-the-art and compare the papers discussed in the introduction with the following ones:
  - Machined surface roughness including cutter displacements in milling of hardened steel, Metrology and Measurement Systems Vol. XVIII, 3, 429 - 440 (2011)
  - An accurate prediction method of cutting forces in 5-axis flank milling of sculptured surface, International Journal of Machine Tools & Manufacture 2016, 104, 26-36.
  - Prediction of cutting forces during micro end milling considering chip thickness accumulation, International Journal of Machine Tools and Manufacture (2019), 103466
  - A novel instantaneous uncut chip thickness model for mechanistic cutting force model in micro-end-milling. Int J Adv Manuf Technol (2017) 93:2305-2319.
  - Study on metrological relations between instant tool displacements and surface roughness during precise ball end milling. Measurement 129, (2018), p. 686-694.
3. The novelty of the proposed approach is not presented satisfactorily in relation to the existing works. Please clearly indicate this aspect in the last paragraph of introduction section.
4. There is lack of information regarding, the relation of cutter's geometry and the cut geometry, e.g. the influence of tool rake and helix angles on area of cut. How Author will address that?
5. In section 5, the information regarding the employed radial and axial depth of cut ranges are missing. These information are essential for validation of the proposed approach.
6. The area of cut is the most important parameter affecting cutting forces. Therefore, the Author should extend the research and provide the charts, which compare the areas of cut in function of tool rotation angle, obtained on the basis of the proposed model and other algorithms.

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12/28/21, 1:33 PM

Politeknik Caltex Riau Mail - Major Revisions requested MEST-D-19-01237

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**Submission Confirmation**

1 message

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**JMST** <em@editorialmanager.com>  
Reply-To: JMST <editorial@j-mst.org>  
To: hendriko hendriko <hendriko@pcr.ac.id>

Mon, Jan 6, 2020 at 8:05 AM

Dear Dr hendriko,

Your revision, "Cut geometry calculation for semi-finish five axis milling of non-straight staircase workpiece" is submitted to the Journal of Mechanical Science and Technology (JMST).

The manuscript number is MEST-D-19-01237R1.

The decision on this submission will be informed when the editorial decision has been made. During the review process, you can keep track of its progress by accessing the following link:

Your username is: hendriko

If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at <https://www.editorialmanager.com/mest/>.

Thank you for your submission.

With best regards,  
Journal of Mechanical Science and Technology

Recipients of this email are registered users within the Editorial Manager database for this journal. We will keep your information on file to use in the process of submitting, evaluating and publishing a manuscript. For more information on how we use your personal details please see our privacy policy at <https://www.springernature.com/production-privacy-policy>. If you no longer wish to receive messages from this journal or you have questions regarding database management, please contact the Publication Office at the link below.

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**MEST-D-19-01237R1 Final file and Copyright transfer form required**

3 messages

**JMST** <em@editorialmanager.com>  
Reply-To: JMST <editorial@j-mst.org>  
To: hendriko hendriko <hendriko@pcr.ac.id>

Thu, Jan 9, 2020 at 7:43 AM

Dear Dr hendriko,

I am pleased to inform you that below manuscript is recommended for publication in JMST.

Manuscript Number: MEST-D-19-01237R1  
Manuscript Title: Cut geometry calculation for semi-finish five axis milling of non-straight staircase workpiece  
Authors: hendriko hendriko, Ph.D

1) JMST charges publication fee to all the accepted manuscripts.

\*\*\* Publication will be halted if the payment is not completed. The invoice of publication fee will be issued after receiving the final file.\*\*\*

2) Please prepare the final file of your manuscript using the JMST template in word format. Please read all the instructions in the template carefully and proceed accordingly. If the final file is not prepared in the JMST template (references, figures, two-column format, author's biography), publication might be delayed.

\* Fully formatted reference is required, particularly, all the citation elements such as article type, author, volume, issue and etc.

When the author uploads the final file into Editorial Manager, we check and analyze reference. If the author has used non-standard journal abbreviations or has omitted data, we will request you to provide the full details of the reference.  
To validate the citations, all the reference is linked to external databases such as Google Scholar or CrossRef.

3) The copyright transfer form is required for publication. Please access below link to download the form.

[http://j-mst.org/data/3\\_JMST\\_Copyright%20Transfer%20Form\\_v2.doc](http://j-mst.org/data/3_JMST_Copyright%20Transfer%20Form_v2.doc)

Please attach the form as a separate attachment when you upload the final file to the system.

\* If there is any change in authorship, please fill out the Author Change form and send the completed form to us via e-mail at [editorial@j-mst.org](mailto:editorial@j-mst.org). Handwritten signature from all the authors is required in the form. Please access below link to download the form.

[http://www.j-mst.org/data/JMST\\_Author%20Change%20Form\\_V2.docx](http://www.j-mst.org/data/JMST_Author%20Change%20Form_V2.docx)

4) Please refer to the recently published articles in JMST below. I kindly ask you to consider adding related articles as reference in your work.

[http://ksme.or.kr/download/JMST\\_Published%20Articles%20\(2018-2020\).xlsx](http://ksme.or.kr/download/JMST_Published%20Articles%20(2018-2020).xlsx)

5) To submit your final file, please access below link and click 'revise submission' in the Action Links.

Your username is: hendriko

If you forgot your password, you can click the 'Send Login Details' link on the EM Login page at <https://www.editorialmanager.com/mest/>.

\* Please note that your manuscript will not be progressed for publication until the final file and the copyright transfer form are uploaded to the system.

Your kind assistance would be greatly appreciated.

With warmest regards,  
Editorial Office  
Journal of Mechanical Science and Technology  
Tel: +82-70-4063-1600  
Email: [editorial@j-mst.org](mailto:editorial@j-mst.org)

Editor's Comments to Author:

Reviewer #2: The authors have carefully revised the manuscript as per the comments.  
The work is worthy for publication.  
All the best.

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**Hendriko** <hendriko@pcr.ac.id>  
To: JMST <editorial@j-mst.org>

Sat, Jan 11, 2020 at 1:42 PM

Dear Editor,  
Thank you for accepting my paper.  
I tried to upload Copyright Transfer Form to the system, but I can not find the option for this item in the step "attach files".  
Could you please inform me how to attach this file ?

Best regards,

**Dr. HENDRIKO, M.Eng.**  
Politeknik Caltex Riau  
Jln. Umban Sari No. 1, Rumbai, Pekanbaru - Riau, Indonesia  
T : 0761 53939 | F : 0761 554224 | [www.pcr.ac.id](http://www.pcr.ac.id)

[Quoted text hidden]

**[KSME]JMST office** <editorial@j-mst.org>  
To: Hendriko <hendriko@pcr.ac.id>

Mon, Jan 13, 2020 at 8:06 AM

Dear author,  
Thank you for your email.  
Please refer to the following steps to attach your copyright tranfer agreement form to the EM system.



Thank you.

Best regards,  
Soheun Lim  
=====  
Editorial Office  
Journal of Mechanical Science and Technology  
Tel: +82-70-4063-1600  
E-mail: [editorial@j-mst.org](mailto:editorial@j-mst.org)  
=====

보낸 사람: Hendriko <[hendriko@pcr.ac.id](mailto:hendriko@pcr.ac.id)>  
보낸 날짜: 2020년 1월 11일 토요일 오후 3:42  
받는 사람: [KSME]JMST office <[editorial@j-mst.org](mailto:editorial@j-mst.org)>  
제목: Re: MEST-D-19-01237R1 Final file and Copyright transfer form required

[Quoted text hidden]

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**Submission Confirmation**

1 message

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**JMST** <em@editorialmanager.com>  
Reply-To: JMST <editorial@j-mst.org>  
To: hendriko hendriko <hendriko@pcr.ac.id>

Mon, Jan 13, 2020 at 10:16 AM

Dear Dr hendriko,

Your revision, "Cut geometry calculation for semi-finish five axis milling of non-straight staircase workpiece" is submitted to the Journal of Mechanical Science and Technology (JMST).

The manuscript number is MEST-D-19-01237R2.

The decision on this submission will be informed when the editorial decision has been made. During the review process, you can keep track of its progress by accessing the following link:

Your username is: hendriko

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Thank you for your submission.

With best regards,  
Journal of Mechanical Science and Technology

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**[JMST] Proofs of your manuscript (19-01237)**

1 message

**[KSME]JMST office** <editorial@j-mst.org>  
To: Hendriko <hendriko@pcr.ac.id>

Fri, Feb 7, 2020 at 4:41 PM

Dear author,

Thank you for your contribution to JMST. Please find the attached proofs of your manuscript.  
(Note that the paper will appear in color only in the online version)

Please review your proof and make minimal corrections. Large corrections cannot be made at this stage.

Send the corrections via email to [editorial@j-mst.org](mailto:editorial@j-mst.org) **no later than February 14, 2020.**

**Please note that failing to receive your reply within due date may delay timely publication of your paper.**

**You may make notes on the pdf file using features of the Adobe program, or send us a list of the corrections that need to be made, for example:**

Page 2, left column, line 5: change 'dog' to 'dogs' and etc.

There may have been some mistakes made in transferring your paper from a doc file to a pdf file, so please completely review your manuscript and rectify all the necessary things.

Make sure to review all **diagrams and equations**, including **captions and notations** as well.

No corrections will be allowed beyond this stage.

In order to publish your article quickly, all of your corrections are to be sent back to us in one communication.  
Please also make sure (if you have not already done so) that the **references** are in order of appearance in the text.

Also, the citations in the text itself must be in [reference number] form.

If they are not in the format explained above, please correct.

If not corrected by you, it will be done by us in the printing process, possibly leading to mistakes.

Please kindly check the telephone and fax numbers, and email address of the corresponding author in the foot note. If it is not written, please fill out or send us this information.

Lastly, please double check the indentation and punctuation of sentences.

\*Please note that the **DOI number, page number, and dates (received, revised, accepted)** will be corrected later at our side. You do not have to mention this.

\*The expected publication date is **1 March 2020**. However, **failing to receive your reply within due date may delay timely publication** of your paper.

In publishing this article, we also understand this to be an original article which does not infringe the copyright, or other rights, of any third party.

You can contact me at [editorial@j-mst.org](mailto:editorial@j-mst.org) if you have any further questions.

Thank you for your kind assistance.

Sincerely,

Editorial Office  
Journal of Mechanical Science and Technology

Tel: +82 (0)2 501 6056  
Fax: +82 (0)2 501 3649  
Email: [editorial@j-mst.org](mailto:editorial@j-mst.org)

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 **01-19-01237-kgs-edit1CLEAN-수식-2003.pdf**  
576K

**List of corrections (manuscript (19-01237))**

3 messages

Hendriko <hendriko@pcr.ac.id>  
To: JMST <editorial@j-mst.org>

Sun, Feb 9, 2020 at 6:04 AM

Dear Editor,

I have checked the result of English proofreading for my manuscript. Several corrections need to be performed. The list of corrections can be seen in table as follow,

Page	Colomn	Section	Paragraph	Line	Word/Sentence	Change to
3	Left	2	Fig.2	Caption	Fig.2 (a) .... relative to <b>WCS</b> ...	Fig.2 (a) .... relative to <b>GCF</b> ...
3	Right	2	4	7	The cutting-tool surface was converted from TCF to GCF because <b>the latter</b> was used as the reference coordinate frame	The cutting-tool surface was converted from TCF to GCF because <b>GCF</b> was used as the reference coordinate frame
4	Left	4.1	2 <sup>nd</sup>	1 <sup>st</sup>	On the one hand, <b>the latter</b> was ...	On the one hand, <b>Z-cylindrical method</b> was...
4	Right	4.1	3 <sup>rd</sup>	1 <sup>st</sup>	On the other hand, <b>the former</b> was...	On the other hand, <b>X-cylindrical method</b> was...
8	Right	5.3	2 <sup>nd</sup>	5 <sup>th</sup>	This large difference <b>might be</b> because the Z-mapping method checked and updated large data.	This large difference because the Z-mapping method checked and updated large data.

Best regards,

**Dr. HENDRIKO, M.Eng.**

Politeknik Caltex Riau

Jln. Umban Sari No. 1, Rumbai, Pekanbaru - Riau, Indonesia

T : 0761 53939 | F : 0761 554224 | [www.pcr.ac.id](http://www.pcr.ac.id)

[KSME]JMST office <editorial@j-mst.org>  
To: Hendriko <hendriko@pcr.ac.id>

Tue, Feb 11, 2020 at 3:29 PM

Dear author

Thank you for your reply.

But I have a question of your paper.

Fig. 5(f) seems inserted mistakenly instead of Fig. 5(e) in Table 1.  
Please let me know if it is right referring to the screenshot below.

Table 1. Process to identify engagement location and calculate  $l_n$ .

No.	Indication	Location engagement point	$l_n$
$z_A > z_B$			
A.1	$x_{n_i} < x_{jA}, z_{n_i} > z_B, z_{n_w} < z_B$	$S_B$ (Fig. 4(a))	$l_n = l_B$
A.2	$x_{n_i} > x_{jB}, z_{n_i} > z_B, z_{n_w} < z_B$	$S_B$ (Fig. 4(b))	$l_n = l_B$
A.3	$x_{n_i} < x_{jA}, z_{n_i} > z_B, z_{n_w} > z_B$	$W_A$ (Fig. 4(c))	$l_n = l_w$
A.4	$x_{n_i} > x_{jB}, z_{n_i} > z_B, z_{n_w} > z_B$	$W_B$ (Fig. 4(d))	$l_n = l_w$
$z_A < z_B$			
B.1	$x_{n_i} > x_{jB}, z_{n_w} < z_A < z_B$ and $z_C < z_A$	$S_B$ (Fig. 5(a))	$l_n = l_B$
B.2	$x_{n_i} < x_{jA}, z_{n_w} < z_A < z_B$ and $z_C < z_A$	$S_B$ (Fig. 5(b))	$l_n = l_B$
B.3	$x_{n_i} < x_{jB}, z_A < z_{n_w} < z_B$ and $z_C < z_A$	$W_B$ and $S_B$ (Fig. 5(c))	$l_n = l_B - (l_w - l_A)$
B.4	$x_{n_i} > x_{jB}, z_{n_w} < z_A < z_B$ and $z_C < z_A$	$W_A$ and $S_B$ (Fig. 5(d))	$l_n = l_B - (l_w - l_A)$
B.5	$z_C > z_A$ and $z_w > z_B$	None (Fig. 5(f))	$l_n = 0$
B.6	$z_C > z_A$ and $z_w < z_B$	$S_B$ (Fig. 5(f))	$l_n = (l_B - l_A)$

Looking forward to your reply.

Best regards

Y. Song

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보낸 사람: Hendriko <[hendriko@pcr.ac.id](mailto:hendriko@pcr.ac.id)>  
 보낸 날짜: 2020년 2월 9일 일요일 오전 8:04  
 받는 사람: [KSME]JMST office <[editorial@j-mst.org](mailto:editorial@j-mst.org)>  
 제목: List of corrections (manuscript (19-01237))

[Quoted text hidden]

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Hendriko <[hendriko@pcr.ac.id](mailto:hendriko@pcr.ac.id)>  
 To: "[KSME]JMST office" <[editorial@j-mst.org](mailto:editorial@j-mst.org)>

Tue, Feb 11, 2020 at 4:18 PM

Yes, you are correct  
 It should be Fig.5e instead of Figure 5f.  
 Thank you for your correction.

Best regards,

**Dr. HENDRIKO, M.Eng.**  
 Politeknik Caltex Riau  
 Jln. Umban Sari No. 1, Rumbai, Pekanbaru - Riau, Indonesia  
 T : 0761 53939 | F : 0761 554224 | [www.pcr.ac.id](http://www.pcr.ac.id)

[Quoted text hidden]

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**[JMST] Final File of your article**

1 message

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**[KSME]JMST office** <editorial@j-mst.org>  
To: Hendriko <hendriko@pcr.ac.id>

Thu, Mar 5, 2020 at 11:49 AM

Dear author,

Please find the attached file of your published article.

Thank you for your contribution.

Best Regards,

Y. Song

=====  
Editorial Office Journal of Mechanical Science and Technology  
Tel: +82-2-501-6056  
Email: [editorial@j-mst.org](mailto:editorial@j-mst.org)  
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 **34-19-01237-kgs-edit1CLEAN-수식-2003.pdf**  
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