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Recent Advances in Mechanical engineering. Lecture Notes in Mechanical Engineering (LNME). Springer.

First online 19 agustus 2022. DOI: [https://doi.org/10.1007/978-981-19-0867-5\\_24](https://doi.org/10.1007/978-981-19-0867-5_24)

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## Modularity Design for Archimedes Screw Turbine Shaft

[Herman Budi Harja](#)  [Fajar Halim Mulyadi](#), [Haris Setiawan](#) & [Suyono](#)

Conference paper | [First Online: 19 August 2022](#)

136 Accesses

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### Abstract

This paper focuses on the modularity of Archimedes screw turbine (AST) shaft for obtaining features that have easy assembly and handling, especially in remote areas. Modularity enables the AST shaft to arrange into several component modules. Modularity requirements should be considering optimum dimensions of screw turbine blades for efficient energy conversion, shaft deflection, and joining strength between modules. The research uses three methods: Rorres formulation for calculation optimization dimensions of the screw turbine, the VDI 2222 method to guide its design meets the design requirements, and simulation analysis solid work to verify shaft deflection on each screw blade modularity. Modularity for AST shaft has been

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## Submission Paper, 07 Mei 2021

### ICOME 2021 submission 4

From:  [icome2021@easychair.org](mailto:icome2021@easychair.org)

To: [Herman Budi Harja](#)

Dear authors,

We received your submission to ICOME 2021 (International Conference on Mechanical Engineering 2021):

Authors : Herman Budi Harja, Fajar Halim Mulyadi, Haris Setiawan and Suyono Suyono  
Title : Modularity Designing for Archimedes Screw Turbine Shaft  
Number : 4

The submission was uploaded by Herman Budi Harja  
<[herman@polman-bandung.ac.id](mailto:herman@polman-bandung.ac.id)>. You can access it via the ICOME 2021  
EasyChair Web page

<https://easychair.org/conferences/?conf=icome2021>

Thank you for submitting to ICOME 2021.

Best regards,  
EasyChair for ICOME 2021.

**From:** "ICOME 2021" <icome2021@easychair.org>  
**To:** "Herman Budi Harja" <herman@polman-bandung.ac.id>  
**Sent:** Monday, 2 August, 2021 8:20:57 PM  
**Subject:** ICOME 2021 Acceptance notification for submission 4

Dear Herman Budi Harja,

On behalf of the ICOME 2021 Committee, and on the recommendation of the reviewers, we are pleased to inform you that your following paper:

-----  
Paper ID: 4  
Title: Modularity Designing for Archimedes Screw Turbine Shaft  
-----

has been ACCEPTED for ORAL presentation at the forthcoming 5th International Conference on Mechanical Engineering, to be held on August 25-26, 2021, virtually through the Zoom webinar platform.

Papers that are ACCEPTED and PRESENTED in ICOME 2021 will be published in one of the following publications, subjected to further full paper review process as required by the publisher:  
- Lecture Notes in Electrical Engineering (ISSN 1876-1100, Indexing: SCOPUS, SJR Scimago)  
- Lecture Notes in Mechanical Engineering (ISSN 2195-4356, Indexing: SCOPUS, SJR Scimago).  
- Selected papers related to Renewable Energy are offered to the International Journal of Renewable Energy Development (ISSN 2252-4940, Indexing: SCOPUS, SJR Scimago, WoS).  
- JMES The International Journal of Mechanical Engineering and Sciences (ISSN 2580-7471, Indexing: Garuda, Google Scholar)

Please prepare for your full paper by taking into consideration the reviewer comments and using the paper template:  
<https://elib.its.ac.id/conf/icome/wp-content/uploads/2021/06/MicrosoftWordProceedingsTemplates.zip>

Deadlines:  
Early-registration: 9 August 2021  
Full paper submission: 9 August 2021  
Late-registration: 18 August 2021

We thank you for submitting your paper and are looking forward to meeting you at the virtual conference.

Sincerely yours,  
Achmad Syaifudin, PhD  
Chairman of ICOME 2021,  
reply-to: [icome@its.ac.id](mailto:icome@its.ac.id)

## Inputan Reviewer

**From:** "ICOME 2021" <icome2021@easychair.org>  
**To:** "Herman Budi Harja" <herman@polman-bandung.ac.id>  
**Sent:** Tuesday, 3 August, 2021 1:16:36 PM  
**Subject:** ICOME 2021 Reviews for submission 4

Dear Herman Budi Harja,

Following the acceptance notification, here we send the review results of your extended abstract submissions. Please prepare the full paper by strictly following the ICOME 2021 template and paying close attention to the comments of the reviewers.

Again, we thank you for submitting your paper and are looking forward to meeting you at the virtual conference.

Sincerely yours,  
Achmad Syaifudin, PhD  
Chairman of ICOME 2021,  
reply-to: [icome@its.ac.id](mailto:icome@its.ac.id)

SUBMISSION: 4  
TITLE: Modularity Designing for Archimedes Screw Turbine Shaft

----- REVIEW 1 -----

SUBMISSION: 4  
TITLE: Modularity Designing for Archimedes Screw Turbine Shaft  
AUTHORS: Herman Budi Harja, Fajar Halim Mulyadi, Haris Setiawan and Suyono Suyono

----- Originality -----  
SCORE: 3 (fair)  
----- Significance and importance of the topic -----  
SCORE: 4 (good)  
----- Literature review -----  
SCORE: 3 (fair)  
----- Methods -----  
SCORE: 3 (fair)  
----- Relevance of analysis and conclusion -----  
SCORE: 4 (good)  
----- Supporting figure and graphics have good qualities -----  
SELECTION: no  
----- Follows correct referencing style and all references are cited in the text -----  
SELECTION: no  
----- Written in correct scientific English and no typographical errors -----  
SELECTION: no  
----- Overall evaluation -----  
SCORE: 2 (accept)  
----- TEXT: -----  
- Review more papers and references  
- Assessment of alternative of concept variation need to be explained more clearly  
- Discuss more comprehensively

----- REVIEW 2 -----  
SUBMISSION: 4  
TITLE: Modularity Designing for Archimedes Screw Turbine Shaft  
AUTHORS: Herman Budi Harja, Fajar Halim Mulyadi, Haris Setiawan and Suyono Suyono

----- Originality -----  
SCORE: 3 (fair)  
----- Significance and importance of the topic -----  
SCORE: 3 (fair)  
----- Literature review -----  
SCORE: 2 (poor)  
----- Methods -----  
SCORE: 3 (fair)  
----- Relevance of analysis and conclusion -----  
SCORE: 3 (fair)  
----- Supporting figure and graphics have good qualities -----  
SELECTION: no  
----- Follows correct referencing style and all references are cited in the text -----  
SELECTION: no  
----- Written in correct scientific English and no typographical errors -----  
SELECTION: no  
----- Overall evaluation -----  
SCORE: 1 (weak accept)  
----- TEXT:

This paper discusses implementing modularity on the Archimedes screw turbine shaft using the analytic/ calculation and simulation method.  
The introduction has to show more on literature citations.  
In the FE model, it is necessary to show boundary conditions, element type, element size, number of elements, and also conduct convergences tests to confirm that a fine enough element discretization has been used.  
Would you please rewrite the abstract? English polishing will help to improve its quality.

**Re: Notification for fullpaper revision**

22 September, 2021 13:15

From: Herman Budi Harja  
To: ICOM 2021  
Cc: icode@its.ac.id

[ICOME\\_2021\\_full...\\_4 revision.docx \(1.2 MB\)](#) [Download](#) | [Briefcase](#) | [Remove](#)

Dear Sir,

Many thanks for Your advice to our paper. We have corrected our paper according to Your advice. Here we attaches the revision paper.

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Thanks for Your kindly.

Regards,  
Herman Budi  
Id04 participant.

**Re: Notification for full paper revision**

30 September, 2021 06:21

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To: ICOM ITS/ Seminar International Teknik Mesin

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Dear Sir,

We are very thanks for Your advice for our paper. We have revised our paper refer to Your list item advice.

1. Writing the author's name is without superscript number, because we are from the same affiliation.
2. Our paper has revised again to be 8 pages.
3. Writing the intended paragraph has revised refer to advice and ICOM template.
4. Writing the figure number on the paper has revised.
5. Writing the the table caption on our paper has revised in the centered.

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Thanks for Your kindly.

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Herman Budi  
Id04 participant.

## Notifikasi : receive submission paper lengkap

### Re: Notification for full paper revision

4 October, 2021 19:42

From: ICOMe ITS/ Seminar International Teknik Mesin

To: Herman Budi Harja

Dear Mr. Herman,

Thank you for revising your paper and sending it back to us. Your paper is in accordance with the template.

Best regards,

**ICOME 2021 Committee**

## Notifikasi Perbaikan full revisi paper dan Signing copyright agreement letter

### ICOME Second notification full paper revision

7 October, 2021 09:12

From: ICOMe ITS/ Seminar International Teknik Mesin

To: Rudi Walujo Prastianto, Herman Budi Harja, Beril P Kamiel, Prof.Dr.Ir. Tri Yogi Yuwono, DEA,(1071), rosadilafeb@gmail.com, hakimunim@gmail.com, Harsono Harsono, Jean mario, Rudi Walujo Prastianto, Setyo hariyadi, Show more...

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Dear authors,

We would like to remind you about the revision of full paper and signing of the Copyright Agreement letter.

#### 1. Full paper revision:

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- b. Authors can add acknowledgment, using heading style without numbering. The acknowledgments may include references to grants or support received in relation to the work presented in the paper.
- c. ORCID number should be included for each author, besides the author name. All contributing authors can apply for an individual ORCID at [www.orcid.org](http://www.orcid.org).

#### 2. Signing Copyright Agreement letter:

Please fill and sign the document attached and send it along with your revised full paper.

Please kindly submit to <https://intip.in/fullpaperICOME2021> by **October 10th, 2021**, at 23:59 WIB. After this deadline, your paper will be rejected for proceeding publication. For more information, contact us through email at [icome@its.ac.id](mailto:icome@its.ac.id). Thank you for your cooperation.

Best regards,

**ICOME 2021 Committee**

## Notifikasi Paper submission to Springer for LNME track

### Notification of papers submission to Springer for LNME track

9 November, 2021 14:27

From: [icome2021@easychair.org](mailto:icome2021@easychair.org)

To: Herman Budi Harja

[Submission succeeded.pdf](#) (160.1 KB) [Download](#) | [Briefcase](#) | [Remove](#)

Dear Herman Budi Harja,

The editorial team of ICOME 2021 has succeeded submit all papers belonging to track "LNME" to Springer (see attachment). Hopefully, it will be processed immediately and will be published this year. Thank you for your cooperation and patient.

Sincerely yours,  
Editorial Team Chair  
ICOME 2021 Committee

## Notifikasi eproofing

Lect.Notes Mechanical Engineering, Ivan Tolj et al. (Eds): Recent Advances in Mechanical Engineering, 978-981-19-0866-8, 520402\_1\_En, (Chapter 24)

1 May, 2022 22:06

From: [eproofing@springernature.com](mailto:eproofing@springernature.com)

To: [herman@polman-bandung.ac.id](mailto:herman@polman-bandung.ac.id)

Reply To: [parimelazhagan.thirumani](mailto:parimelazhagan.thirumani)

**SPRINGER NATURE**

Dear Dr. Herman Budi Harja,

I am happy to inform you on behalf of Springer Nature that the proofs of your book chapter "**Modularity Design for Archimede Screw Turbine Shaft**" are now available.

You can help us facilitate quick and accurate publication by using our e.Proofing system. The system will show you an HTML version of the chapter that you can correct online. In addition, you can view/download a PDF version for your reference.

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## Notifikasi bahwa paper telah publish

### **[ICOME 2021] Proceedings Publication**

27 August, 2022 10:56

From: [icome2021@easychair.org](mailto:icome2021@easychair.org)

To: Herman Budi Harja

Dear Herman Budi Harja, Fajar Halim Mulyadi, Haris Setiawan, Suyono,

Conference proceedings in LNEE (<https://link.springer.com/book/10.1007/978-981-19-1581-9>) and LNME (<https://link.springer.com/book/10.1007/978-981-19-0867-5>) from select proceedings of ICOME 2021 have been published online.

On behalf of the ICOME 2021 committee, I would like to express my gratitude for the participation of the authors in giving extraordinary presentations and submitting valued articles. I hope this conference can broaden your academic career and see you again at the next level of the ICOME in 2023.

Best regards,  
Editorial Team Chair  
ICOME 2021 Committee



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## Modularity Design for Archimedes Screw Turbine Shaft

Herman Budi Harja , Eajar Halim Mulyadi, Haris Setiawan & Suyono

Conference paper | First Online: 19 August 2022

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