

# KORESPONDENSI SEMESTA TEKNIKA 2022

## Judul: Kajian Komputasi Pengaruh Penerapan Blowing pada Bagian Belakang Model Kendaraan

**SEMESTA  
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## #13478 Summary

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### Submission

Authors	Rustan Tarakka, Nasaruddin Salam, Andi Amijoyo Mochtar, Muhammad Ihsan, Wawan Rauf
Title	Kajian Komputasi Pengaruh Penerapan Blowing pada Bagian Belakang Model Kendaraan
Original file	<a href="#">13478-49180-1-SM.DOC</a> 2021-12-26
Supp. files	None
Submitter	Rustan Rustan Tarakka 
Date submitted	December 26, 2021 - 10:10 AM
Section	Articles
Editor	Harini Sosiati 
Author comments	Dear Editor,

We herewith submit our paper titled Kajian Komputasi Pengaruh Penerapan Blowing Pada Bagian Belakang Model Kendaraan (Computational Study on Blowing Control on Rear Part of Vehicle Models) authored by Rustan Tarakka, Nasaruddin Salam, Andi Amijoyo Mochtar , Muhammad Ihsan, Wawan Rauf to your esteemed journal of Semesta Teknika.

Sincerely,

Dr. Rustan Tarakka

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## Submission Metadata


### Authors


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Bio Statement –

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Bio Statement –


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Country –  
Bio Statement –



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### TEMPLATE



Article  
Template

## Title and Abstract

**Title** Kajian Komputasi Pengaruh Penerapan Blowing pada Bagian Belakang Model Kendaraan

**Abstract** Drag aerodinamika pada kendaraan disebabkan adanya tekanan rendah dan separasi aliran di bagian belakang, yang berdampak pada menurunnya kecepatan, meningkatnya penggunaan bahan bakar, dan turunnya efisiensi kendaraan. *Blowing* merupakan salah satu pilihan rekayasa kendali aktif aliran yang dapat diterapkan pada desain kendaraan yang dapat mengendalikan pembentukan separasi aliran dan berefek positif berupa pengurangan hambatan aerodinamis. Penelitian ini bertujuan menganalisis pengaruh penerapan *blowing* terhadap pola aliran, distribusi tekanan, dan hambatan aerodinamika yang bekerja pada bagian belakang model. Dengan bantuan CFD Fluent 6.3, model uji yang digunakan adalah model kendaraan dengan sudut kemiringan geometri depan ( $\alpha$ )  $35^\circ$  dan rasio terhadap model Ahmed bodi original adalah 0.17 (1:6), yang dilengkapi dengan *blowing* dengan kecepatan 1.0 m/s. Hasil komputasi mengindikasikan bahwa penerapan *blowing* dapat mengurangi pembentukan *wake* dan menunda separasi aliran dan dapat meningkatkan koefisien tekanan minimum pada bagian belakang model kendaraan sebesar 24.690%. Pengurangan hambatan aerodinamika diperoleh sebesar 9.583%.

## Indexing

**Keywords** blowing; aerodynamic drag; computation

**Language** en

## Supporting Agencies

**Agencies** Hasanuddin University

### REFERENCE TOOLS



### STATISTIC COUNTER:

#### Visitors



	119,128		87
	6,421		80
	547		79
	354		71
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## #13478 Review

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### Submission



Authors Rustan Tarakka, Nasaruddin Salam, Andi Amijoyo Mochtar, Muhammad Ihsan, Wawan Rauf   
Title Kajian Komputasi Pengaruh Penerapan Blowing pada Bagian Belakang Model Kendaraan  
Section Articles  
Editor Harini Sosiati 

### Peer Review

#### Round 1

Review Version [13478-49181-1-RV.DOC](#) 2021-12-26  
Initiated 2022-01-10  
Last modified 2022-02-23  
Uploaded file None

### Editor Decision

Decision [Accept Submission](#) 2022-04-21  
Notify Editor  [Editor/Author Email Record](#)  2022-02-23  
Editor Version None  
Author Version [13478-49853-1-ED.DOC](#) 2022-01-10 [DELETE](#)  
[13478-49853-2-ED.DOC](#) 2022-02-25 [DELETE](#)

Upload Author Version  No file chosen

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## #13478 Editing

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### Submission


Authors Rustan Tarakka, Nasaruddin Salam, Andi Amijoyo Mochtar, Muhammad Ihsan, Wawan Rauf   
 Title Kajian Komputasi Pengaruh Penerapan Blowing pada Bagian Belakang Model Kendaraan  
 Section Articles  
 Editor Harini Soslati 

### Copyediting

COPYEDIT INSTRUCTIONS


REVIEW/METADATA

	REQUEST	UNDERWAY	COMPLETE
1. Initial Copyedit File: 13478-53724-1-CE.DOC 2022-04-21	2022-04-21	—	2022-05-17
2. Author Copyedit File: None <input type="button" value="Choose File"/> No file chosen <input type="button" value="Upload"/>	—	—	
3. Final Copyedit File: None	—	—	2022-05-17

Copyedit Comments  No Comments


### Layout


Galley Format	FILE	
1. PDF <a href="#">VIEW PROOF</a>	13478-53724-1-PE.PDF 2022-05-17	70
Supplementary Files	FILE	None

Layout Comments  No Comments

### Proofreading

REVIEW/METADATA

	REQUEST	UNDERWAY	COMPLETE
1. Author	—	—	
2. Proofreader	2022-05-17	—	2022-05-17
3. Layout Editor	2022-05-17	—	2022-05-17

Proofreading Corrections  No Comments [PROOFING INSTRUCTIONS](#)

#### QUICK MENU

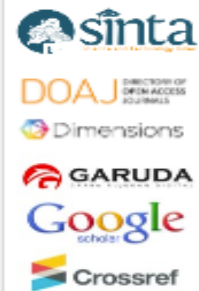
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Harini Sosiati <journalumy@gmail.com>  
To: Rustan Rustan Tarakka



Wed, Feb 23, 2022 at 11:12 AM

Rustan Rustan Tarakka:

We have reached a decision regarding your submission to Semesta Teknik, "Kajian Komputasi Pengaruh Penerapan Blowing Pada Bagian Belakang Model Kendaraan (Computational Study on Blowing Control on Rear Part of Vehicle Models)".

Our decision is to:

**Harini** Sosiati  
Department of Mechanical Engineering Universitas Muhammadiyah Yogyakarta  
[hsosiati@ft.umy.ac.id](mailto:hsosiati@ft.umy.ac.id)

Reviewer A:

Does the work presented in the paper contain enough new material to warrant publication?:  
Yes

Is the title of manuscript appropriate and does the abstract represent the content of manuscript?:  
Yes

Is the paper original (not plagiarism), scientifically sound and not misleading?:  
Yes

Does the paper present correct in Indonesian/English writing and of high scientific quality?:  
Yes

Is the paper organized in a clear and easy to understand manner?:  
Yes

Is the title of manuscript appropriate and does the abstract represent the content of manuscript?:  
Good : 8

Does/Do Author/Authors show clear research aim and problem background in the paper?:  
Good : 8

Does/Do Author/Authors present high quality and appropriate research methods?:  
Good : 15

Are the descriptions of tables of data, figures etc. sufficient for understanding of the presented work? Please evaluate the presentation of data:  
Good : 15

Is the results and discussion of the paper adequate, acceptable and scientifically written?:  
Good : 15

Is conclusion and summary of the paper a clear and appropriate to understand manner?:  
Good : 8

Are the literature citations appropriate and adequate?:  
Good : 8

Detailed Comments:

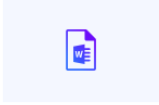
1. Artikel disusun dengan struktur dan bahasa yang baik.
2. Abstrak menjadi maksimal 150 kata.

Select a recommendation and submit the review to complete the process. You must enter a review or upload a file before selecting a recommendation:  
Revisions Required

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**Rustan Tarakka** <rustan\_tarakka@yahoo.com>  
To: Harini Sosiati



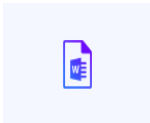
Fri, Feb 25, 2022 at 9:44 PM ☆

Dear Dr. **Harini** Sosiati  
Editor of Semesta Teknika

We herewith submit the revised version of our paper ,  
"Kajian Komputasi Pengaruh Penerapan Blowing Pada Bagian Belakang Model Kendaraan (Computational Study on Blowing Control on Rear Part of Vehicle Models)", submitted to Semesta Teknika.  
I hope this could satisfy the journal's standards.  
Thank you very much for your kind assistance,  
Sincerely yours,

Dr. Rustan Tarakka  
Dept. of Mechanical engineering  
Hasanuddin University

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