SINTA 3
SK Dirjendiktiristek, Nomor: 225/E/KPT/2022

p-ISSN 2655-1861
e-ISSN 2716-2923

Jurnal
ASIIMETRIK
JURNAL ILMIAH REKAYASA DAN INOVASI

Redaksi Jurnal ASIIMETRIK
Srengseng Sawah, Jagakarsa, Jakarta Selatan, 12640
✆ 021.789 4730 ext. 107
http://journal.univpancasila.ac.id/index.php/asiimetrik/
asiimetrik@univpancasila.ac.id

Volume 6 Nomor 2
JULI
2024

Jurnal Asiimetrik: Jurnal Ilmiah Rekayasa Dan Inovasi
Terakreditasi "**Peringkat 3**" berdasarkan SK Dirjendiktiristek, Nomor: 225/E/KPT/2022
Volume 6 Nomor 2 Tahun 2024, Juli 2024, Halaman 187-382
Website : http://journal.univpancasila.ac.id/index.php/asiimetrik/

p-ISSN 2655-1861
e-ISSN 2716-2923

Publisher:

- Fakultas Teknik Universitas Pancasila
  UP2M (Unit Penelitian dan Pengabdian kepada Masyarakat)

Editorial Address:

Srengseng Sawah, Jagakarsa, Jakarta Selatan, 12640
Telp. 021- 786 4730 ext. 107
asiimetrik@univpancasila.ac.id
http://journal.univpancasila.ac.id/index.php/asiimetrik/

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Jurnal Asiimetrik: Jurnal Ilmiah Rekayasa dan Inovasi is a national journal published by Faculty of Engineering Universitas Pancasila. It has been accredited "**Rank 3**" or **SINTA 3** by the Decree of the Director General of Higher Education, Research and Technology Number: 225/E/KPT/2022 and is registered with **p-ISSN 2655-1861 (print)** and **e-ISSN 2716-2923 (online)** and can be accessed via the website: http://journal.univpancasila.ac.id/index.php/asiimetrik/.

Jurnal Asiimetrik: Jurnal Ilmiah Rekayasa dan Inovasi is published regularly every **two times a year**, in **January** and **July**. This journal publishes research-based scientific articles, case studies, review articles, engineering and innovations that cover both theoretical and practical as well as their development. The topics of scientific articles published cover the fields of Architecture, Civil Engineering, Industrial Engineering, Informatics Engineering, Mechanical Engineering and Electrical Engineering.

SUMMARY. Inspired by a past design, **Santoso et al.,** were building a jaw gripper hoping to improve its efficiency by using less filament without compromising the quality of the gripper. To increase output, **Ichsan et al.**, developed an industry-wide automated system. One instrument for production simulation is the modular production system (MPS). **Setiawan et al.**, have created a vacuum gripper especially meant to handle workpieces, like labeling applications in the automation sector. The air barrier increased as **Fikri et al.**, optimized the body of the goods vehicle using CFD simulation. **Napoleon et al.**, optimized the top cover feed unit's design at the pick and place station since, upon a change in position at the time the vacuum sucks the top of the cover causes dislocation. **Allo et al**., investigated the efficiency of a hybrid drier, closely examining the material the machine dries as well as its features. With application in small-scale businesses for household appliances and fences, **Siswanto et al.** refined the TIG welding process utilizing 304 stainless steel material (SUS 304). **Dwinandana et al.** meanwhile created the ergonomic notion of a nurse-assisting robot. Using a strong and qualitative approach to ascertain the daily minimum water needs per person; **Rahman** investigated the possible needs and resources of the City of Denpasar. **Leonard et al.** worked on proposals for a child-friendly blue open playground in the seaside region of the Old Rampa Village with Bajau ethnic character while **Wijaya et al.** investigated the natural frequencies and patterns of 17-inch aluminum alloy plugs as well as the largest deformation that might occur with ANSYS software applied for simulation. **Numberi et al.** investigated the possible wind energy produced by best savonius wind turbine design. By changing the spacing between the blades and turbine beams, they conducted power tests and investigated the most ideal power for application in the coastal town of Sarmi, Papua Province. They also looked at the phenomena of heat transfer by natural convection from hot stone to food in consumer packaging. Using 6061

aluminum and ASTM B187 copper in friction welding, **Habibi et al.** carried studies aiming at estimating the strength of welding contacts. Using dandori issues, **Wibowo at al.** conducted research aiming at lowering line pauses in plastic injection operations by thirty percent. **Ridwan et al.** optimised the dehumidified air flow distribution on tray-type thermocouple dryers using CFD software. Early research on wind turbines, particularly on the efficiency of vertical axis and horizontal axis wind turbines VAWT and HAWT respectively, **Herlina et al.** The work by **Oktavian et al.** sought to ascertain the heat transfer coefficients for convection and evaporation, how the temperature of the cooling water in the condenser influences the evaporating process, and what results when the freshwater condensate level rises in a seawater desalination system. **Shafitri and Syarif** investigated developing long-range low-voltage electrical circuit breaker systems in IoT-based flood zones. Using MATLAB and microcontrollers, **Uden et al.** developed artificial neural network (ANN) testing strategies to identify voltage and current imbalances in three-phase induction engines.