UNIVERSITAS
GADJAH MADA
**Rancang Bangun Alat Pembersih Wick Assembly Untuk Peningkatan Keandalan Pelumasan dan Efektivitas
Perawatan Bulanan Lokomotif**
Muhammad Farchan Satria Priyadi, Dr. Ilham Ayu Putri Pratiwi, S.T.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Ariyadi Putra, F. B., & Choliq, A. (2022). *Analisis Pulley dan V-Belt Pada Perancangan Sistem Transmisi Wind Tunnel Bertenaga Angin Exhaus Fan*. *3*(1), 2747–1497.

Bhushan, B. (2013). *Principles and applications of tribology. John wiley & sons.*

Braumann, L., de Viteri, V. S., Morhard, B., Lohner, T., Ochoa, J., & Amri, H. (2025). Tribology technologies for gears in loss of lubrication conditions: a review. Dalam *Journal of Materials Science: Materials in Engineering* (Vol. 20, Nomor 1). Springer. https://doi.org/10.1186/s40712-024-00204-5

Budynas, R. G., Keith Nisbett, J., Ridge, B., York, N., Francisco St Louis, S., Lumpur, K., City Milan, M., & Delhi, N. (2020). *Shiq ley's Mechanical Engineering Design Eighth Edition in SI Units Me Graw Hill*.

Dabit, A. S., Lianto, A. E., Branta, S. A., Laksono, F. B., Prabowo, A. R., & Muhayat, N. (2020). Finite element analysis (FEA) on autonomous unmanned surface vehicle feeder boat subjected to static loads. *Procedia Structural Integrity*, *27*, 163–170. https://doi.org/10.1016/j.prostr.2020.07.022

Dumyati, I., & Nurhaji, S. (2023). Modeling dan Simulasi Finite Element Analysis pada Segitiga T Sepeda Motor Menggunakan Sofware Ansys 2023. *Quantum Teknika : Jurnal Teknik Mesin Terapan*, *5*(1), 26–30. https://doi.org/10.18196/jqt.v5i1.19012

Dzulfiqar, M. F., Prabowo, A. R., Ridwan, R., & Nubli, H. (2021). Assessment on the designed structural frame of the automatic thickness checking machine - Numerical validation in FE method. *Procedia Structural Integrity*, *33*(C), 59–66. https://doi.org/10.1016/j.prostr.2021.10.009

Elkholy, A., Durfee, J., Mooney, J. P., Robinson, A. J., & Kempers, R. (2023). A rate-of-rise facility for measuring properties of wick structures. *Measurement Science and Technology*, *34*(4). https://doi.org/10.1088/1361-6501/acad1c

Firmansyah, M. F. I., Arifin, A. A., Marliana, E., & Ulum, M. (2025). FAILURE ANALYSIS ON LIGHT DUTY PROPELLER SHAFT USING FINITE ELEMENT METHOD. *Scientific Journal of Mechanical Engineering*

UNIVERSITAS
GADJAH MADA
**Rancang Bangun Alat Pembersih Wick Assembly Untuk Peningkatan Keandalan Pelumasan dan Efektivitas
Perawatan Bulanan Lokomotif**
Muhammad Farchan Satria Priyadi, Dr. Ilham Ayu Putri Pratiwi, S.T.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Kinematika, *10*(1), 103–111. https://doi.org/10.20527/sjmekinematika.v10i1.712

Fonseca, M. S. E., & Reguly, A. (2011). The Use of the Ultrasound Measurement Technique for the Evaluation of Mechanical Properties of the ASTM A36 Steels. Dalam *Eduardo Fonseca and Afonso Reguly* (Vol. 212, Nomor 2).

Foroughi, H., & Schafer, B. W. (2017). *Simulation of conventional cold-formed steel sections formed from Advanced High Strength Steel (AHSS)*.

García-Garre, A., & Gabaldón, A. (2019). Analysis, evaluation and simulation of railway diesel-electric and hybrid units as distributed energy resources. *Applied Sciences (Switzerland)*, *9*(17). https://doi.org/10.3390/app9173605

Han, W., Han, F., & Li, Z. (2025). ANSYS implementation of coupling peridynamic and classical continuum mechanics model for fracture analysis. *Engineering Fracture Mechanics*, *326*. https://doi.org/10.1016/j.engfracmech.2025.111402

Hardiansyah, R., & Martoni, J. (2025). RANCANG BANGUN DAN ANALISIS BEBAN BAK PEMBERSIH PART SEPEDA MOTOR. Dalam *Jurnal Ilmiah Teknologi Informasi Terapan)* (Vol. 11, Nomor 3).

Hidayat, M. R., & Sukmawan, D. F. (2020). Analisis Penurunan Daya Pada Sistem Propulsi Lokomotif Transmisi Diesel Elektrik CC 203 Di Depo Lokomotif. *SUTET*, *10*(2), 79–87. https://doi.org/10.33322/sutet.v10i2.1296

Hirose Toshiro, Ueda, M., Oshikawa, K., Suzuki, E., Iwanaga, Y., & Shimokawa, Y. (2022). *Contents Technical Papers Ball Screw Technologies to Control Machine Tool Quadrant Glitches Development of High-Speed Ball Bearings for Hybrid Electric Vehicles (HEVs) and Electric Vehicles (EVs) Introduction of Analysis Method Automation Technology for Efficient Design*.

Irawan, H., Khudaifa Alkhakim, A., & Sasongko, S. B. (2025). *Analisis Kekuatan Rangka Pada Desain Mesin Pencacah Ban Multifungsi dengan menggunakan Metode Finete Element Analysis*.

J. M. Gere, & B. J. Goodno. (2018). *Mechanics of Materials* (9th edition). Cengage Learning.

UNIVERSITAS
GADJAH MADA
**Rancang Bangun Alat Pembersih Wick Assembly Untuk Peningkatan Keandalan Pelumasan dan Efektivitas
Perawatan Bulanan Lokomotif**
Muhammad Farchan Satria Priyadi, Dr. Ilham Ayu Putri Pratiwi, S.T.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Liu, W. K., Li, S., Harold, B., & Park, S. (2022). *Eighty Years of the Finite Element Method: Birth, Evolution, and Future*.

Liu, Y., Chen, Z., Li, W., & Wang, K. (2021). Dynamic analysis of traction motor in a locomotive considering surface waviness on races of a motor bearing. *Railway Engineering Science*, *29*(4), 379–393. https://doi.org/10.1007/s40534-021-00246-x

Liu, Y., Chen, Z., Ning, J., Wang, K., & Zhai, W. (2022). Improved Dynamics Model of Locomotive Traction Motor with Elasticity of Rotor Shaft and Supporting Bearings. *Chinese Journal of Mechanical Engineering (English Edition)*, *35*(1). https://doi.org/10.1186/s10033-022-00762-9

Mahmudi, H. (2021). *Analisa Perhitungan Pulley dan V-Belt Pada Sistem Transmisi Mesin Pencacah*. https://doi.org/10.29407/jmn.v4i1.16201

Maulana, I. T., Zohari, A., Wardoyo, A. S., & Heryanto, P. A. (2021). Analisa Desain Rangka Alat Compact Heat Induction Press Menggunakan Metode Finite Element Analysis. *Energi, Manufaktur, dan Material*, *5*(2), 83–89.

Mensani, M. M., Sukmadi, T., & Winardi, B. (2013). *IDENTIFIKASI KELAS ISOLASI MOTOR TRAKSI PADA LOKOMOTIF DIESEL ELEKTRIK BERDASARKAN AKUISISI DATA SUHU*.

Morrow, J., Espino Mendez, C., & Derby, M. (2021). *Permeability Analysis of Additively-Manufactured Wick Structures with Heat Exchanger Applications*.

Muhammad Syarif, L. O., Dzil Ikram, F., Hidayat, A., & Anggara, M. (2024). *PERANCANGAN TRANSMISI PULLEY DAN V-BELT PADA MESIN CHIPPER KAYU PULLEY AND V-BELT TRANSMISSION DESIGNER ON WOOD CHIPPER MACHINE*. *2*(1). https://jurnal.uts.ac.id/index.php/gearftrs

Mustika, V., Triono, A., Koekoeh, R., & Wibowo, K. (2020). Analysis of Screwed Shaft Failure using the Process Simulation of Loaded Torsion. *Journal of Energy, Mechanical, Material, and Manufacturing Engineering)*, *5*(2).

Nam Phan, H., & Paolacci, F. (2018). *FLUID-STRUCTURE INTERACTION PROBLEMS: AN APPLICATION TO ANCHORED AND UNANCHORED STEEL STORAGE TANKS SUBJECTED TO SEISMIC LOADINGS*.

UNIVERSITAS
GADJAH MADA
**Rancang Bangun Alat Pembersih Wick Assembly Untuk Peningkatan Keandalan Pelumasan dan Efektivitas
Perawatan Bulanan Lokomotif**
Muhammad Farchan Satria Priyadi, Dr. Ilham Ayu Putri Pratiwi, S.T.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Nwe, T., & Pimsarn, M. (2021). Railway axle and wheel assembly press-fitting force characteristics and holding torque capacity. *Applied Sciences (Switzerland)*, *11*(19). https://doi.org/10.3390/app11198862

Ramdani, D., & Muazar. (2025). *RANCANGAN MESIN PENCUCI JAHE UNTUK INDUSTRI HERBAL UMKM*.

Reddy, J. N. (2005). *SOLUTIONS MANUAL for An Introduction to The Finite Element Method (Third Edition)*.

Sabtu, M. A., Admi, A. E., Salleh, M. M., Osman, S. A., & Osman, S. A. (2024). Finite Element Analysis of Stress Distribution in AL6061 Frame Structures Under Varying Applied Loads. *International Journal of Integrated Engineering*, *16*(2), 259–269. https://doi.org/10.30880/ijie.2024.16.02.027

Shkolnikov, V., Strickland, D. G., Fenning, D. P., & Santiago, J. G. (2010). Design and fabrication of porous polymer wick structures. *Sensors and Actuators, B: Chemical*, *150*(2), 556–563. https://doi.org/10.1016/j.snb.2010.08.040

Stachowiak, G. W. and B. A. W. (2025). *Engineering tribology* (4th ed., Vol. 1). Butterworth-Heinemann.

Tedric A. Harris., M. N. K. (2006). *Rolling Bearing Analysis*. *2*.

Wang, M., Yang, S., Liu, Y., Chen, Y., & Zhang, K. (2024). Establishment of the thermo-mechanical coupling model of axle box bearings with track irregularity excitation and analysis of its temperature characteristics. *Applied Mathematics and Mechanics (English Edition)*, *45*(11), 1965–1986. https://doi.org/10.1007/s10483-024-3188-7

Wang, S., Yu, H., Dai, C., & Zhao, M. (2020). Global Asymptotic Stability and Hopf Bifurcation in a Homogeneous Diffusive Predator-Prey System with Holling Type II Functional Response. *Applied Mathematics*, *11*(05), 389–406. https://doi.org/10.4236/am.2020.115028

Yang, L., Zhao, X., Ma, Z., Ma, S., & Zhou, F. (2023). An overview of functional biolubricants. Dalam *Friction* (Vol. 11, Nomor 1, hlm. 23–47). Tsinghua University. https://doi.org/10.1007/s40544-022-0607-8

UNIVERSITAS
GADJAH MADA
**Rancang Bangun Alat Pembersih Wick Assembly Untuk Peningkatan Keandalan Pelumasan dan Efektivitas
Perawatan Bulanan Lokomotif**
Muhammad Farchan Satria Priyadi, Dr. Ilham Ayu Putri Pratiwi, S.T.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Zhu, C., He, J., Peng, J., Ren, Y., Lin, X., & Zhu, M. (2019). Failure mechanism analysis on railway wheel shaft of power locomotive. *Engineering Failure Analysis*, *104*, 25–38. https://doi.org/10.1016/j.engfailanal.2019.05.013

Zienkiewicz, O. C., Taylor, R. L., & Zhu, J. Z. (2013). *The Finite Element Method: Its Basis and Fundamentals Sixth edition*. www.cimne.upc.es