

DAFTAR PUSTAKA

- Ali, M. H. (2021) Analysis and Prediction of Machining Parameters Process Using Face Milling Operation. *Journal of Mechanical Engineering Research and Developments*. Vol. 44, No. 11, pp. 72-81
- Binglin, L., & Rui, Z. (2022) Analytical prediction of cutting forces in cylindrical turning of 304 stainless steel using unequal division shear zone theory. Research Square. <https://doi.org/10.21203/rs.3.rs-1406262/v1>
- Bombinski, S. & Jemielniak, K. (2023) Application of Geometric Simulation for Determination of Dynamic Undeformed Chip Thickness in Milling. *Advances in Science and Technology Research Journal*, 17(1), 173–181. <https://doi.org/10.12913/22998624/157114>
- Budak, E., Altintas, Y., Armarego, A. J. E. (1996) Prediction of Milling Force Coefficients From Orthogonal Cutting Data. *Journal of Manufacturing Science and Engineering*. doi: 10.1115/1.2831014
- Cheng, Y. M. (2022) Machining with a Precision Five-Axis Machine Tools Created by Combining a Horizontal Parallel Three-Axis Motion Platform and a Three-Axis Machine Tools. <https://doi.org/10.3390/ma15062268>
- Dwijana, K. G. I. (2019) Pengaruh Parameter Pemotongan Terhadap Kekasaran Permukaan Blok Head Pada Proses Frais. *Jurnal Energi dan Manufaktur* Vol. 12 No. 2 (103-105). <http://dx.doi.org/10.24843/JEM.2019.v12.i02.p10>
- Gandreddi, P. J., Kromanis, A., Lungevics, J., & Jost, E. (2023) Overview Of Machinability Of Titanium Alloy (Ti6Al4V) And Selection Of Machining Parameters. doi: 10.2478/lpts-2023-0005
- Gradisek, J., Kalveram, M., Weinert, K. (2004) Mechanistic identification of specific force coefficients for a general endmill. *International Journal of Machine Tools & Manufacture* 44, (2004) 401–414. doi:10.1016/j.ijmachtools.2003.10.001
- Guoqing, Z., Jingjie, Z., Guanghui, F., Chonghai, X., & Jin, D. (2023) The effect of chip formation on the cutting force and tool wear in high-speed milling Inconel 718. Research Square. <https://doi.org/10.21203/rs.3.rs-2366266/v1>
- Haely, F. N. J., Abizar, H., Ramdani, D. S., Abdillah, H., & Setiawan, A. (2023) Effect of Spindle Speed and Depth of Cut on AISI 1045 Material Roughness on Turning Process. *AIP Conf. Proc.* 2671, 030006-1–030006-7; <https://doi.org/10.1063/5.0114503>
- Hajdu, D., Astarloa, A., Kovacs, I., & Dombovari, Z. (2023) The curved uncut chip thickness model: A general geometric model for mechanistic cutting force predictions. *International Journal of Machine Tools and Manufacture* 188-104019. <https://doi.org/10.1016/j.ijmachtools.2023.104019>
- Handaya, R. V. (2008) Pengaruh Perubahan Sudut Inklinasi Pada Proses Pemesinan Terhadap Kualitas Permukaan Hasil Pemesinan Produk Berkontur. [skripsi] Depok: Teknik Mesin, Fakultas Teknik, Universitas Indonesia.

- Harjono, S. A. (2022) Proses Manufacture Spare Part Variasi Sepeda Motor Dengan Program Autodesk Fusion 360 Pada Mesin CNC Milling 3 Axis. Inisiasi, Volume 11 Nomor 1. <http://dx.doi.org/10.59344/inisiasi.v11i1.37>
- Hou, M., Shan, Z., Dong, X., & Ding, B. (2021) Prediction of sand mold cutting force and identification of cutting force coefficients. *J. Phys.: Conf. Ser.* 1885 042002. doi:10.1088/1742-6596/1885/4/042002
- Hung, P. J., Lai, L. Y., Lin, Y. C., Lo, L. T. (2011) Modeling the machining stability of a vertical milling machine under the influence of the preloaded linear guide. *International Journal of Machine Tools & Manufacture* 51 731–739. doi:10.1016/j.ijmachtools.2011.05.002
- Izol, P., Varga, J., Vrabel, M., Demko, M., & Gres, M. (2022) Evaluation Of 3-Axis And 5-Axis Milling Strategies When Machining Freeform Surface Features. *JPE* Vol.25 (1). <http://doi.org/10.24867/JPE-2022-01-001>
- Jousselin, B., Quinsat, Y., & Tournier, C. (2019) A 5-axis pocket roughing strategy reducing the remaining material volume. *Procedia CIRP* 82, 368–373. doi:10.1016/j.procir.2019.04.146
- Kaidong, C., He, Z., Nathan, V. D. W., & Emmanuel, D. (2022) An Alternative Approach To Compute Chip Thickness In Milling. *Journal of Manufacturing Science and Engineering*. doi: 10.1115/1.4054804
- Kaneko, K., Nishida, I., Sato, R., & Shirase, K. (2018) Virtual milling force monitoring method based on in-process milling force prediction model to eliminate predetermination of cutting coefficients. *Procedia CIRP* 77 22–25. doi:10.1016/j.procir.2018.08.196
- Kao, C. Y., Chen, J. S., Vi, K. V., Feng, H. G., & Tsai, Y. G. (2021) Study of milling machining roughness prediction based on cutting force. *IOP Conference Series: Material Science and Engineering*. doi:10.1088/1757-899X/1009/1/012027
- Kiswanto, G., Baskoro, S. A., & Syaefudin, A. E. (2017) Initial Tool Orientation Set-up for 5-Axis Flank Milling Based on Faceted Models. *MATEC Web of Conferences* 10, 04006 ICMAA 2017. doi: 10.1051/71080
- Kiswanto, G., Sutrisno, H. H., & Istiyanto, J. (2017) Non Machinable Volume Calculation Method for 5-Axis Roughing Based on Faceted Models through Closed Bounded Area Evaluation. *MATEC Web of Conferences* 10, 04015 ICMAA 2017. doi: 10.1051/matecconf/201710804015
- Kiswanto, G., Sutrisno, H. H., & Istiyanto, J. (2018) Tool Path Planning Selection For 5-Axis Rough Machining Strategy Based On Faceted Models. Prosiding SNTTM XVII, hal. 096-102
- Kiswanto, G., Azmi, M., Mandala, A., & Ko, T. J. (2019) The Effect of Machining Parameters to the Surface Roughness in Low Speed Machining Micro-milling Inconel 718. *IOP Conf. Series: Materials Science and Engineering* 654 012014. doi:10.1088/1757-899X/654/1/012014

- Kiswanto, G., Mandala, A., Azmi, M., & Ko, T. J. (2020) The Effects of Cutting Parameters to the Surface Roughness in High Speed Cutting of Micro-Milling Titanium Alloy Ti-6Al-4V. ISSN: 1662-9795, Vol. 846, pp 133-138. <https://doi.org/10.4028/www.scientific.net/KEM.846.133>
- Kiswanto, G., Putri, K., Christiand., Fitriawan, R., Hiltansyah, F., & Putra, G. (2021) Modelling, Simulation, and Analysis of Cutting Force in Micro End Milling Process of Mild Steel Using Mechanistic Model. 7th International Conference on Mechatronics and Robotics Engineering (ICMRE) 978-1-6654-1489-0/21/\$31.00. doi: 10.1109/ICMRE51691.2021.9384814
- Kuczmaszewski, J., Zagorski, I., & Zgorniak, P. (2022) Chip Temperature Measurement in the Cutting Area During Rough Milling Magnesium Alloys with a Kordell Geometry End Mill. Advances in Science and Technology Research Journal, 16(2), 109–119. ISSN 2299-8624. <https://doi.org/10.12913/22998624/146851>
- Kumar, S. A., Deb, S., & Paul, S. (2018) A Study On Micro-Milling Of Aluminium 6061 and Copper With Respect To Cutting Forces, Surface Roughness and Burr Formation. Proceedings of the ASME 13th International Manufacturing Science and Engineering Conference 2018-6570.
- Lazkano, X., Aristimuno, P., & Arrazola, P. (2019) Improvement of material databases for cutting force prediction in finishing conditions of A-356 aluminium alloy. Procedia CIRP 2212-8271.
- Mac, T. B., Luyen, T. T., & Nguyen, D. T. (2022) A Study for Improved Prediction of the Cutting Force and Chip Shrinkage Coefficient during the SKD11 Alloy Steel Milling. Machines, 10, 229. doi:10.3390/machines10040229
- Markopoulos, P. A., Karkalos, E. N., Mia, M., Pimenov, Y. D., Gupta, K. M., Hegab, H., Khanna, N., Balogun, A. V., & Sharma, S. (2020). Sustainability Assessment, Investigations, and Modelling of Slot Milling Characteristics in Eco-Benign Machining of Hardened Steel.
- Masmiati, N., & Sarhan A. D. A. (2014) Optimizing cutting parameters in inclined end milling for minimum surface residual stress. Measurement 60, 267-275. <http://dx.doi.org/10.1016/j.measurement.2014.10.002>
- Matras, A., & Zebala, W. (2020) Optimization of Cutting Data and Tool Inclination Angles During Hard Milling with CBN Tools, Based on Force Predictions and Surface Roughness Measurements. Materials, 13, 1109; www.mdpi.com/journal/materials. doi:10.3390/ma13051109
- Moufki, A., Dudzinski, D., & Le Coz, G. (2015). Prediction of cutting forces from an analytical model of oblique cutting, application to peripheral milling of Ti-6Al-4V alloy. International Journal of Advanced Manufacturing Technology, 81(1–4) 615–626. <https://doi.org/10.1007/s00170-015-7018-1>
- Minghai, W., Lei, G., & Yaohui, Z. (2014). An examination of the fundamental mechanics of cutting force coefficients. International Journal of Machine Tools and Manufacture, 78, 1–7. doi.org/10.1016/j.ijmachtools.2013.10.008

- Mirnawati, D., Alhamidi, A. A., & Fitrullah, M., (2020) Studi mikrostruktur dan sifat mekanik Alumunium 6061 melalui proses canai dingin dan aging.
- Nan, C., & Liu, D. (2018) Analytical Calculation of Cutting Forces in Ball-End Milling with Inclination Angle. *J. Manuf. Mater. Process.* 2018, 2, 35; doi:10.3390/jmmp2020035
- Pahlevi, R. (2020) Prediksi Gaya Potong Material Teflon PTFE pada Mesin Milling CNC 5 Axis Menggunakan Pahat HSS Flat End Mill Diameter 10 mm. [skripsi] Jakarta: Pendidikan Teknik Mesin, Fakultas Teknik, Universitas Negeri Jakarta.
- Pelayo, U.G., Olvera-Trejo, D., Luo, M., Tang, K., Lopez de Lacalle, L. N., & Elias-Zuniga, A. (2021) A model-based sustainable productivity concept for the best decision making in rough milling operations. *Measurement*, vol. 186, p. 110120, 2021. <https://doi.org/10.1016/j.measurement.2021.110120>
- Pradeep, G., Wins, D. L. K., Ebenezer, J. D., Pramod, G., & Beatrice, A. B. (2021) Effect of machining parameters on cutting force during dry milling of 2205 DSS and 2507 SDSS materials. *Materials Today: Proceedings* 2214-7853 <https://doi.org/10.1016/j.matpr.2021.05.097>
- Premono, A. (2009) Pengembangan Metode Pendekripsi Dan Penghilangan Interferensi Pada Pemesinan Akhir Multiaksi Berbasis Model Faset 3D Menggunakan Pahat Toroid. [tesis] Depok: Fakultas Teknik, Universitas Indonesia.
- Sethupathy, A., & Shanmugasundaram, N. (2021) Prediction of cutting force based on machining parameters on AL7075-T6 aluminum alloy by response surface methodology in end milling. *Materialwiss Werkstofftech* 52, 879–890. doi.org/10.1002/mawe.202000086
- Suntoro (2008) Pengaruh Pengaturan Laju Pemakanan Terhadap Perubahan Sudut Inklinasi Pada Proses Pemesinan Multi-Axis Terhadap Kualitas Permukaan Hasil Pemesinan Produk Berkontur. [skripsi] Depok: Teknik Mesin, Fakultas Teknik, Universitas Indonesia.
- Sutrisno, H. H. (2008) Pengembangan Metode Pendekripsi Ruang Terbatas (Bounded Volume) Untuk Pemesinan Milling Awal (Roughing) Multi-Axis Berbasis Model Faset 3D. [tesis] Depok: Fakultas Teknik, Universitas Indonesia.
- Sutrisno, H. H., Kiswanto, G., & Istiyanto, J. (2017) The Improvement of the Closed Bounded Volume (CBV) Evaluation Methods to Compute a Feasible Rough Machining Area Based on Faceted Models. *IOP Conf. Ser: Mater. Sci. Eng.* 215 012041. doi: 10.1088/1757-899X/215/1/012041
- Sutrisno, H. H., Kiswanto, G., & Istiyanto, J. (2017) Development of Initial Tool Orientation Method At Close Bounded Area for 5-Axis Roughing Based on Faceted Models. *International Journal of Mechanical Engineering and Robotics Research* Vol. 6, No. 4. doi: 10.18178/ijmerr.6.4.296-300

- Sutrisno, H. H. (2018) Pengembangan Metode Pemesinan Awal Milling 5-Axis Pada Area Terbatas Untuk Benda Kompleks Berbasis Model Faset. [disertasi]. Depok: Fakultas Teknik, Universitas Indonesia.
- Sutrisno, H. H. (2022) The Characteristics of Cutting Force in the Rough Machining Process of 5-Axis Milling on PEEK Material Based on Cutting Speed Parameters. International Journal of Mechanical Engineering and Robotics Research Vol. 11, No. 9. doi: 10.18178/ijmerr.11.9.682-689
- Sutrisno, H. H., Kiswanto, G., & Istiyanto, J. (2023) Improved Five Axis–Rough Milling Process Efficacy a Close-Bounded Volume (CBV) Evaluation Method Based on a Faceted Model. Pre-Journal Research Square. <https://doi.org/10.21203/rs.3.rs-2496617/v1>
- Syaefudin, A. E. (2008) Pengembangan Metode Identifikasi Orientasi Dan Lintasan Pahat Pada Ruang Terbatas (Bounded Volume) Pada Pemesinan Milling Awal (Roughing) Multi-Axis Berbasis Model Faset 3D. [tesis]. Depok: Fakultas Teknik, Universitas Indonesia.
- Syaefudin, A. E., Kiswanto, G., & Baskoro, S. A., (2021) Development of Tool Orientation Strategy with Alternative Orientation and Non-machinable Area Identification in 5-Axis Peripheral Milling of a Sculptured Surface based on a Faceted Models. International Journal of Technology 12(1) 113-125. doi: 10.14716/ijtech.v12i1.4114
- Tomoya, A., Masakazu, K., & Hiromi, M. (2017) Effects of aging on mechanical properties and microstructure of multidirectionally forged 7075 aluminum alloy. Journal Department of Mechanical Engineering Toyohashi University of Technology Japan. <http://dx.doi.org/10.1016/j.msea.2017.06.017>
- Vineet, J., & Tilak, R. (2018) Prediction of cutting force by using ANFIS. Int J Syst Assur Eng 9(5):1137–1146. <https://doi.org/10.1007/s13198-018-0717-x>
- Vladimir, A., & Chobotov. (2002). Orbital Mechanics (3rd ed.). AIAA.
- Wibowo, T. A., Haryadi, D. W., & Umardani, Y. (2014) Pengaruh Heat Treatment T6 Pada Aluminium Alloy 6061-O dan Pengelasan Transversal Tungsten Inert Gas Terhadap Sifat Mekanik dan Struktur Mikro. JTM (S-1) – Vol. 2, No. 4 :374-381. <http://ejournal-s1.undip.ac.id/index.php/jtm>
- Widyantoro, K. E. (2018) Pengaruh Variasi Temperatur Aging Pada Aluminium 6061 Terhadap Uji Impak, Kekerasan, Dan Struktur Mikro. [tugas akhir]. Surabaya: Departemen Teknik Mesin Industri, Fakultas Vokasi, Institut Teknologi Sepuluh November.
- Wijayanto, L. W., Windi, S., Setiawan, T. A. (2022) Modifikasi Mekanisme Pelumasan Pada Mesin Frais Berbasis Mikrokontroler. JMI Vol. 44 No. 2. <http://dx.doi.org/10.32423/jmi.2022.v44.75-81>
- Xin'an, Z., & Junbing, P. (2022) Development and Application of Educational Mini CNC Milling Machines. E3S Web of Conferences 358, 01045. <https://doi.org/10.1051/e3sconf/202235801045>

Yongmao, X., Zhigang, J., Quan, G., Wei, Y., & Ruping, W. (2021). A novel approach to CNC machining center processing parameters optimization considering energy-saving and low-cost. *Journal of Manufacturing Systems*, 59, 535–548.

Zachert, C., Schraknepper, D., & Bergs, T. (2022) Surface Integrity Characterization by Barkhausen Noise Measurement after Milling Processes with End Mills. Procedia CIRP 115 202–207. doi:10.1016/j.procir.2022.10.074.

Zhang, X., Zhang, W., Zhang, J., Pang, B., Zhao, W. (2017) General modeling and calibration method for cutting force prediction with flat-end cutter. *Journal of Manufacturing Science and Engineering*. doi:10.1115/1.4038371

Zhao, Z., Xiao, Y., Zhu, Y., & Liu, B. (2010) Influence of Cutting Speed on Cutting Force in High-speed Milling. Advanced Materials Research Vols. 139-141 pp 835-838. doi: <http://www.scientific.net/AMR.139-141.835>

Zolpakar, A. N., Yasak, F. M., & Pathak, S. (2021). A review: use of evolutionary algorithm for optimisation of machining parameters. *The International Journal of Advanced Manufacturing Technology* 115:31–47. <https://doi.org/10.1007/s00170-021-07155-7>

Zulfikar. (2023) Sejarah Mesin Computer Numerical Control (CNC) <https://zulfikar.blog.uma.ac.id/2023/04/30/sejarah-mesin-computer-numerical-control-cnc/>

