UNIVERSITAS
GADJAH MADA
PROSES MANUFAKTUR DAN ASSEMBLY 3D PRINTER DENGAN SISTEM EKSTRUSI DAN MILLING
Muhammad Ibnu Rashyid, Ir. Muhammad Akhsin Muflikhun, ST, MSME., Ph.D; Ardi Wiranata, ST, M. Eng., Ph.D
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Aboulkhair, N. T., Bosio, F., Gilani, N., Phutela, C., Hague, R. J. M., & Tuck, C. J. (2023). Additive manufacturing processes for metals. *Quality Analysis of Additively Manufactured Metals*, 201–258. https://doi.org/10.1016/B978-0-323-88664-2.00016-6

Ali, Md. H., Kurokawa, S., Shehab, E., & Mukhtarkhanov, M. (2023). Development of a large-scale multi-extrusion FDM printer, and its challenges. *International Journal of Lightweight Materials and Manufacture*, *6*(2), 198–213. https://doi.org/10.1016/j.ijlmm.2022.10.001

Altintas, Y., & Tulsyan, S. (2015). Prediction of part machining cycle times via virtual CNC. *CIRP Annals*, *64*(1), 361–364. https://doi.org/10.1016/J.CIRP.2015.04.100

Amanullah, A. N. M., Murshiduzzaman, Saleh, T., & Khan, R. (2017). Design and Development of a Hybrid Machine Combining Rapid Prototyping and CNC Milling Operation. *Procedia Engineering*, *184*, 163–170. https://doi.org/10.1016/J.PROENG.2017.04.081

ASME. (2019). *ASME B46.1-2019: Surface Texture*. 126.

ASTM F2972. (2012). *Standard Terminology for Additive Manufacturing Technologies,: Vol. 10.04*. https://doi.org/10.1520/F2792-12

Awad, R. H., Habash, S. A., & Hansen, C. J. (2018). 3D Printing Methods. *3D Printing Applications in Cardiovascular Medicine*, 11–32. https://doi.org/10.1016/B978-0-12-803917-5.00002-X

Ayrilmis, N. (2018). Effect of layer thickness on surface properties of 3D printed materials produced from wood flour/PLA filament. *Polymer Testing*, *71*, 163–166. https://doi.org/10.1016/J.POLYMERTESTING.2018.09.009

Boschetto, A., Bottini, L., & Veniali, F. (2016). Finishing of Fused Deposition Modeling parts by CNC machining. *Robotics and Computer-Integrated Manufacturing*, *41*, 92–101. https://doi.org/10.1016/J.RCIM.2016.03.004

UNIVERSITAS
GADJAH MADA
PROSES MANUFAKTUR DAN ASSEMBLY 3D PRINTER DENGAN SISTEM EKSTRUSI DAN MILLING
Muhammad Ibnu Rashyid, Ir. Muhammad Akhsin Muflikhun, ST, MSME., Ph.D; Ardi Wiranata, ST, M. Eng., Ph.D
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Chen, N., & Frank, M. (2019). *Process planning for hybrid additive and subtractive manufacturing to integrate machining and directed energy deposition*. *34*, 205–213. https://doi.org/10.1016/J.PROMFG.2019.06.140

Cheng, G. Z., San Jose Estepar, R., Folch, E., Onieva, J., Gangadharan, S., & Majid, A. (2016). Three-dimensional Printing and 3D Slicer. *Chest*, *149*(5), 1136–1142. https://doi.org/10.1016/j.chest.2016.03.001

Chohan, J. S., & Singh, R. (2017). Pre and post processing techniques to improve surface characteristics of FDM parts: a state of art review and future applications. *Rapid Prototyping Journal*, *23*(3), 495–513. https://doi.org/10.1108/RPJ-05-2015-0059

Creality Product Detail. (2023). *CR-10S Pro V2 3D Printer - Creality 3D*. https://www.creality.com/products/cr-10s-pro-v2-3d-printer

Dizon, J. R. C., Gache, C. C. L., Cascolan, H. M. S., Cancino, L. T., & Advincula, R. C. (2021). Post-Processing of 3D-Printed Polymers. *Technologies*, *9*(3), 61. https://doi.org/10.3390/technologies9030061

eSUN PLA+ Filament PLA Plus 3D Printer Filament PLA Pro. (t.t.). Diambil 15 April 2023, dari https://www.esun3d.com/pla-pro-product/

Froes, F., Boyer, R., & Dutta, B. (2019). Introduction to aerospace materials requirements and the role of additive manufacturing. Dalam *Additive Manufacturing for the Aerospace Industry* (hlm. 1–6). Elsevier. https://doi.org/10.1016/B978-0-12-814062-8.00001-7

Hanon, M. M., Zsidai, L., & Ma, Q. (2021). Accuracy investigation of 3D printed PLA with various process parameters and different colors. *Materials Today: Proceedings*, *42*, 3089–3096. https://doi.org/10.1016/J.MATPR.2020.12.1246

He, Y., Wei, J., He, Y., Rong, X., Guo, W., Wang, F., Wang, Y., & Liu, J. (2023). A process strategy planning of additive-subtractive hybrid manufacturing based multi-dimensional manufacturability evaluation of geometry feature. *Journal of Manufacturing Systems*, *67*, 296–314. https://doi.org/10.1016/J.JMSY.2023.02.003

UNIVERSITAS
GADJAH MADA
PROSES MANUFAKTUR DAN ASSEMBLY 3D PRINTER DENGAN SISTEM EKSTRUSI DAN MILLING
Muhammad Ibnu Rashyid, Ir. Muhammad Akhsin Muflikhun, ST, MSME., Ph.D; Ardi Wiranata, ST, M. Eng., Ph.D
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Huang, S. H., Liu, P., Mokasdar, A., & Hou, L. (2013). Additive manufacturing and its societal impact: a literature review. *The International Journal of Advanced Manufacturing Technology*, *67*(5–8), 1191–1203. https://doi.org/10.1007/s00170-012-4558-5

Hur, J., Lee, K., Zhu-Hu, & Kim, J. (2002). Hybrid rapid prototyping system using machining and deposition. *Computer-Aided Design*, *34*(10), 741–754. https://doi.org/10.1016/S0010-4485(01)00203-2

Karunakaran, K. P., Suryakumar, S., Pushpa, V., & Akula, S. (2010). Low cost integration of additive and subtractive processes for hybrid layered manufacturing. *Robotics and Computer-Integrated Manufacturing*, *26*(5), 490–499. https://doi.org/10.1016/J.RCIM.2010.03.008

Kumar, S. A., & Prasad, R. V. S. (2021). Basic principles of additive manufacturing: different additive manufacturing technologies. *Additive Manufacturing*, 17–35. https://doi.org/10.1016/B978-0-12-822056-6.00012-6

Kuznetsov, V., Solonin, A., Urzhumtsev, O., Schilling, R., & Tavitov, A. (2018). Strength of PLA Components Fabricated with Fused Deposition Technology Using a Desktop 3D Printer as a Function of Geometrical Parameters of the Process. *Polymers*, *10*(3), 313. https://doi.org/10.3390/polym10030313

Lalegani Dezaki, M., Mohd Ariffin, M. K. A., & Ismail, M. I. S. (2020). Effects of CNC Machining on Surface Roughness in Fused Deposition Modelling (FDM) Products. *Materials*, *13*(11), 2608. https://doi.org/10.3390/ma13112608

Lalehpour, A., & Barari, A. (2016). Post processing for Fused Deposition Modeling Parts with Acetone Vapour Bath. *IFAC-PapersOnLine*, *49*(31), 42–48. https://doi.org/10.1016/j.ifacol.2016.12.159

Lee, W. C., Wei, C. C., & Chung, S. C. (2014). Development of a hybrid rapid prototyping system using low-cost fused deposition modeling and five-axis machining. *Journal of Materials Processing Technology*, *214*(11), 2366–2374. https://doi.org/10.1016/J.JMATPROTEC.2014.05.004

UNIVERSITAS
GADJAH MADA
PROSES MANUFAKTUR DAN ASSEMBLY 3D PRINTER DENGAN SISTEM EKSTRUSI DAN MILLING
Muhammad Ibnu Rashyid, Ir. Muhammad Akhsin Muflikhun, ST, MSME., Ph.D; Ardi Wiranata, ST, M. Eng., Ph.D
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Masuzawa, T., Osa, M., & Mapley, M. (2018). Motor design and impeller suspension. *Mechanical Circulatory and Respiratory Support*, 335–377. https://doi.org/10.1016/B978-0-12-810491-0.00011-4

Mehtedi, M. El, Buonadonna, P., Carta, M., Mohtadi, R. El, Marongiu, G., Loi, G., & Aymerich, F. (2023). Effects of milling parameters on roughness and burr formation in 3D- printed PLA components. *Procedia Computer Science*, *217*, 1560–1569. https://doi.org/10.1016/j.procs.2022.12.356

Muflikhun, M. A., & Sentanu, D. A. (2021). Characteristics and performance of carabiner remodeling using 3D printing with graded filler and different orientation methods. *Engineering Failure Analysis*, *130*, 105795. https://doi.org/10.1016/J.ENGFAILANAL.2021.105795

Nirish, M., & Rajendra, R. (2020). Suitability of metal additive manufacturing processes for part topology optimization – A comparative study. *Materials Today: Proceedings*, *27*, 1601–1607. https://doi.org/10.1016/J.MATPR.2020.03.275

Norberto López de Lacalle, L., Campa, F. J., & Lamikiz, A. (2011). Milling. *Modern Machining Technology*, 213–303. https://doi.org/10.1533/9780857094940.213

Palmara, G., Frascella, F., Roppolo, I., Chiappone, A., & Chiadò, A. (2021). Functional 3D printing: Approaches and bioapplications. *Biosensors and Bioelectronics*, *175*, 112849. https://doi.org/10.1016/j.bios.2020.112849

Pămărac, R. G., & Petruse, R. E. (2018). Study Regarding the Optimal Milling Parameters for Finishing 3D Printed Parts from ABS and PLA Materials. *ACTA Universitatis Cibiniensis*, *70*(1), 66–72. https://doi.org/10.2478/aucts-2018-0009

Pandey, P. M., Venkata Reddy, N., & Dhande, S. G. (2003). Improvement of surface finish by staircase machining in fused deposition modeling. *Journal of Materials Processing Technology*, *132*(1–3), 323–331. https://doi.org/10.1016/S0924-0136(02)00953-6

Panjwani, M. B., Pillai, M., De Silva, R. T., Goh, K. L., & Pasbakhsh, P. (2020). Performance of 3D printed poly(lactic acid)/halloysite nanocomposites.

UNIVERSITAS
GADJAH MADA
PROSES MANUFAKTUR DAN ASSEMBLY 3D PRINTER DENGAN SISTEM EKSTRUSI DAN MILLING
Muhammad Ibnu Rashyid, Ir. Muhammad Akhsin Muflikhun, ST, MSME., Ph.D; Ardi Wiranata, ST, M. Eng., Ph.D
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

Interfaces in Particle and Fibre Reinforced Composites: Current Perspectives on Polymer, Ceramic, Metal and Extracellular Matrices, 251–267. https://doi.org/10.1016/B978-0-08-102665-6.00010-8

Patil, P., Singh, D., Raykar, S. J., & Bhamu, J. (2021). Multi-objective optimization of process parameters of Fused Deposition Modeling (FDM) for printing Polylactic Acid (PLA) polymer components. *Materials Today: Proceedings*, *45*, 4880–4885. https://doi.org/10.1016/j.matpr.2021.01.353

Pérez, M., García-Collado, A., Carou, D., Medina-Sánchez, G., & Dorado-Vicente, R. (2021). On surface quality of engineered parts manufactured by additive manufacturing and postfinishing by machining. *Additive Manufacturing*, 369–394. https://doi.org/10.1016/B978-0-12-818411-0.00015-X

Pestano, V., Pohlmann, M., Silva, F. P. da, Pestano, V., Pohlmann, M., & Silva, F. P. da. (2022). Effect of Acetone Vapor Smoothing Process on Surface Finish and Geometric Accuracy of Fused Deposition Modeling ABS Parts. *Journal of Materials Science and Chemical Engineering*, *10*(10), 1–9. https://doi.org/10.4236/MSCE.2022.1010001

Shiyas, K. A., & Ramanujam, R. (2021). *A review on post processing techniques of additively manufactured metal parts for improving the material properties*. https://doi.org/10.1016/j.matpr.2021.03.016

Sola, A., & Trinchi, A. (2023). Basic principles of fused deposition modeling. *Fused Deposition Modeling of Composite Materials*, 7–39. https://doi.org/10.1016/B978-0-323-98823-0.00001-9

Taufik, M., & Jain, P. K. (2013). Role of build orientation in layered manufacturing: A review. *International Journal of Manufacturing Technology and Management*, *27*(1–3), 47–73. https://doi.org/10.1504/IJMTM.2013.058637

Thompson, M. K., Moroni, G., Vaneker, T., Fadel, G., Campbell, R. I., Gibson, I., Bernard, A., Schulz, J., Graf, P., Ahuja, B., & Martina, F. (2016). Design for Additive Manufacturing: Trends, opportunities, considerations, and

UNIVERSITAS
GADJAH MADA
PROSES MANUFAKTUR DAN ASSEMBLY 3D PRINTER DENGAN SISTEM EKSTRUSI DAN MILLING
Muhammad Ibnu Rashyid, Ir. Muhammad Akhsin Muflikhun, ST, MSME., Ph.D; Ardi Wiranata, ST, M. Eng., Ph.D
Universitas Gadjah Mada, 2024 | Diunduh dari http://etd.repository.ugm.ac.id/

constraints. *CIRP Annals*, *65*(2), 737–760. https://doi.org/10.1016/j.cirp.2016.05.004

Zhang, P. (2010). Industrial intelligent controllers. *Advanced Industrial Control Technology*, 257–305. https://doi.org/10.1016/B978-1-4377-7807-6.10007-5

Zohdi, N., & Yang, R. (Chunhui). (2021). Material Anisotropy in Additively Manufactured Polymers and Polymer Composites: A Review. *Polymers*, *13*(19), 3368. https://doi.org/10.3390/polym13193368