



## DAFTAR PUSTAKA

- Ambriz, R. R., Mayagoitia, V., & Ciitec-ipn, I. P. N. (2018). Welding of Aluminum Alloys. *Welding, Brazing and Soldering*, *i*, 722–739.
- Bannantine, J. A., Comer, J.J., Handrock, J. L., 1989. *Fundamental of metal fatigue analysis*. Prentice Hall Engelwood Cliffs: New Jersey.
- Bannour, S., Abderrazak, K., Mattei, S., Masse, J. E., Autric, M., & Mhiri, H. (2013). The influence of position in overlap joints of Mg and Al alloys on microstructure and hardness of laser welds. *Journal of Laser Applications*, *25*(3), 032001.
- Callister, W. and Rethwisch, D., 2010. *Materials science and engineering*. 8th ed. Wiley, USA.
- Fang, C., Meng, X. H. Hu, Q. X. Wang, F. J. Ren, H., Wang, H. S. Guo, Y., & Mao, M. (2012). TANDEM and GMAW Twin Wire Welding of Q690 Steel Used in Hydraulic Support. *Journal of Iron and Steel Research International*, *19*(5), 79–85.
- Goecke, S., Beschichtungstechnik, F.-, Berlin, T. U., Hedegård, J., & Joining, S. (2001). *Tandem MIG / MAG Welding*. *2*, 24–28.
- Huang, L., Hua, X., Wu, D., Jiang, Z., Li, F., Wang, H., & Shi, S. (2017). Microstructural characterization of 5083 aluminum alloy thick plates welded with GMAW and twin wire GMAW processes. *International Journal of Advanced Manufacturing Technology*, *93*(5–8), 1809–1817
- Huang, L., Wu, D., Hua, X., Liu, S., Jiang, Z., Li, F., Wang, H., & Shi, S. (2018). Effect of the welding direction on the microstructural characterization in



fiber laser-GMAW hybrid welding of 5083 aluminum alloy. *Journal of Manufacturing Processes*, 31, 514–522.

Ilman, M. N., Kusmono, Muslih, M. R., Subeki, N., & Wibowo, H. (2016). Mitigating distortion and residual stress by static thermal tensioning to improve fatigue crack growth performance of MIG AA5083 welds. *Materials and Design*, 99, 273–283.

Jiang, Z., Hua, X., Huang, L., Wu, D., Li, F., & Cai, Y. (2019). High Efficiency and Quality of Multi-Pass Tandem Gas Metal Arc Welding for Thick Al 5083 Alloy Plates. *Journal of Shanghai Jiaotong University (Science)*, 24(2), 148–157.

Jordon, J. B., Rao, H., Amaro, R., & Allison, P. (2019). Fatigue Crack Growth in Friction Stir Welds. *Fatigue in Friction Stir Welding*, 61–86.

Junus, S. (2011). Pengaruh Besar Aliran Gas terhadap Cacat Porositas dan Struktur Mikro Hasil Pengelasan MIG pada Paduan Aluminium 5083. *Jurnal ROTOR*, Vol. 4(No. 1), 22–31.

Kam, D. H., Lee, T. H., Kim, D. Y., Kim, J., & Kang, M. (2021). Weld quality improvement and porosity reduction mechanism of zinc coated steel using tandem gas metal arc welding (GMAW). *Journal of Materials Processing Technology*, 294(March), 117127.

Kou, S. 2002. *Welding Metallurgy*, 2<sup>nd</sup> ed, Wiley Interscience, Canada.

Lippold, J.C., 2014, *Welding Metallurgy and Weldability*, John Wiley and Sons, Inc

Mandal, N. R. 2017. *Ship Construction and Welding*, Springer Nature Singapore Pte Ltd , 2<sup>nd</sup> ed, USA.



Mathers, G. (2002). MIG welding. *The Welding of Aluminium and Its Alloys*, 131, 116–146.

Mudjijana, Himarosa, R. A., & Sudarisman. (2020). Macro-micro analysis on 2-layer semiautomatic mig welding of aa5052 material using er5356 electrode. *Key Engineering Materials*, 867 KEM, 204–212.

Nadzam, J., Armao, F., Byall, L., Kotecki, D., & Miller, D. (2014). Gas Metal Arc Welding Guidelines. Cleveland, OH: The Lincoln Electric Company.

Ozesmi, M., Patiroglu, T. E., Hillerdal, G., & Ozesmi, C. (1985). Peritoneal mesothelioma and malignant lymphoma in mice caused by fibrous zeolite. *British Journal of Industrial Medicine*, 42(11), 746–749.

Polmear, I. J. (1997). Wrought aluminium alloys. In *Materials Forum* (Vol. 21).

Qin, G., Meng, X., & Fu, B. (2015). High speed tandem gas tungsten arc welding process of thin stainless steel plate. *Journal of Materials Processing Technology*, 220, 58–64.

Radaj, D., 1992. *Heat Effect of welding*. Springer-Verlag: New York

Ren, L., Gu, H., Wang, W., Wang, S., Li, C., Wang, Z., Zhai, Y., & Ma, P. (2021). Microstructure and Properties of Al-6.0Mg-0.3Sc Alloy Deposited by Double-Wire Arc Additive Manufacturing. *3D Printing and Additive Manufacturing*, 00(00).

Singh, R. (2012). Welding Non-Ferrous Metals and Alloys. *Applied Welding Engineering*, 215–228.

Sproesser, G., Chang, Y. J., Pittner, A., Finkbeiner, M., & Rethmeier, M. (2017). Environmental energy efficiency of single wire and tandem gas metal arc welding. *Welding in the World*, 61(4), 733–743.



UNIVERSITAS  
GADJAH MADA

Studi Eksperimental Pengaruh Jarak Antar Elektroda Terhadap Sifat Fisis dan Mekanis pada

Sambungan

Las MIG Tandem Aluminium Paduan AA5083

MUHAMMAD AFIF F, Prof. Ir. M. Noer Ilman, S.T., M.Sc., Ph.D. IPM., ASEAN Eng

Universitas Gadjah Mada, 2022 | Diunduh dari <http://etd.repository.ugm.ac.id/>

Surdia, T., & Saito, S. (1999). *Pengetahuan bahan teknik*. Jakarta: PT. Pradnya paramida.

Wei, Z., Xu, R., Li, H., Hou, Y., & Guo, X. (2019). Investigation on Double Wire Metal Inert Gas Welding of A7N01-T4 Aluminum Alloy in High-Speed Welding. *High Temperature Materials and Processes*, 38(2019), 317–325.

Yuan, Y., Yamazaki, K., & Suzuki, R. (2016). Relationship between penetration and porosity in horizontal fillet welding by a new process “hybrid tandem MAG welding process.” *Welding in the World*, 60(3), 515–524.