

REFERENCE

- ASM Handbook (2002). Volume: 21 composites (pp. 27–34, 940, 951). USA.
- Pihtili, H., & Tosun, N. (2002). Investigation of the wear behavior of a glass-fiber reinforced composite and plain polyester resin. *Composites Science and Technology*, 62, 367–370.
- Soutis C. Fiber reinforced composites in aircraft construction. *Prog Aerosp Sci* 2005;41: 143–151.
- Howe S, Kolios AJ and Brennan FP. Environmental lifecycle assessment of commercial passenger jet airliners. *Transport Res D: Tr E* 2013; 19: 34–41.
- Khashaba UA, El-Sonbaty IA, Selmy AI, et al. Drilling analysis of woven glass fiber-reinforced/epoxy composites. *J Compos Mater* 2013; 47: 191–205.
- Tan JLY, Deshpande VS and Fleck NA. Failure mechanisms of a notched CFRP laminate under multiaxial loading. *Compos Part A*: 2015; 77: 56–66.
- Krishnaraj V, Zitoune R and Collombet F. Study of drilling of multi-material (CFRP/Al) using Taguchi and statistical techniques. *Usak Univ J Mater Sci* 2012; 1: 95–109.
- Stone R and Krishnamurthy K. A neural network thrust force controller to minimize delamination during drilling of graphite-epoxy laminates. *Int J Mach Tool Manu* 1996; 36: 985–1003.
- Koenig W, Wulf C, Grass P, et al. Machining of fiber reinforced plastics. *CIRP Ann: Manuf Techn* 1985; 34: 537–548.

Rajamurugan TV, Shanmugam K and Palanikumar K. Analysis of delamination in drilling glass fiber reinforced polyester composites. *Mater Design* 2013; 45: 80–87.

Davim JP, Reis P and Antonio CC. Experimental study of drilling glass fiber reinforced plastics (GFRP) manufactured by hand lay-up. *Compos Sci Technol* 2004; 64: 289–297.

Rao BS, Rudramoorthy R, Srinivas S, et al. Effect of drilling induced damage on notched tensile and pin bearing strengths of woven GFR-epoxy composites. *Mat Sci Eng A: Struct* 2008; 472: 347–352.

Khashaba UA. Drilling of polymer matrix composites: review. *J Compos Mater* 2013; 47: 1817–1832.

Khashaba UA. Development and characterization of high performance nano-hybrid GFRE composites for structural applications. *Compos Struct* 2014; 116: 523–534.

Kilickap E. Investigation into the effect of drilling parameters on delamination in drilling GFRP. *J Reinf Plast Comp* 2010; 29: 3498–3503.

Marques AT, Duraõ LM, Magalhães AG, et al. Delamination analysis of carbon fiber reinforced laminates, evaluation of a special step drill. *Compos Sci Technol* 2009; 69: 2376–2382.

Enemuoh EU, El-Gizawy AS and Okafor AC. An approach for development of

- damage-free drilling of carbon fiber reinforced thermosets. *Int J Mach Tool Manu* 2001; 41: 1795–1814.
- Chen W. Some experimental investigations in the drilling of carbon fiber-reinforced plastic (CFRP) composite laminates. *Int J Mach Tool Manu* 1997; 37: 1097–1108.
- Hocheng H and Tsao CC. Effects of special drill bits on drilling-induced delamination of composite materials. *Int J Mach Tool Manu* 2006; 46: 1403–1416.
- Abrao AM, Rubio JCC, Faria PE, et al. The effect of cutting tool geometry on thrust force and delamination when drilling glass fiber reinforced plastic composite. *Mater Design* 2008; 29: 508–513.
- Davim JP and Reis P. Drilling carbon fiber reinforced plastics manufactured by autoclave—experimental and statistical study. *Mater Design* 2003; 24: 315–324.
- Davim JP and Reis P. Study of delamination in drilling carbon fiber reinforced plastics (CFRP) using design experiments. *Compos Struct* 2003; 59: 481–487.
- Tsao CC. Thrust force and delamination of core-saw drill during drilling of carbon fiber reinforced plastics (CFRP). *Int J Adv Manuf Tech* 2008; 37: 23–28.
- Zitoune R, Krishnaraj V and Collombet F. Study of drilling of composite material and aluminum stack. *Compos Struct* 2010; 92: 1246–1255.
- Gaitonde VN, Karnik SR, Rubio JC, et al. Analysis of parametric influence on

delamination in high-speed drilling of carbon fiber reinforced plastic composites. *J Mater Process Tech* 2008; 203: 431–438.

Krishnaraj V, Prabukarthi A, Ramanathan A, et al. Optimization of machining parameters at high speed drilling of carbon fiber reinforced plastic (CFRP) laminates. *Compos Part B: Eng* 2012; 43: 1791–1799.

Koplev A, Lystrup A and Vorm T. The cutting process, chips, and cutting forces in machining CFRP. *Composites* 1983; 14: 371–376.

Zitoune R, Krishnaraj V, Almabouacif BS, et al. Influence of machining parameters and new nano-coated tool on drilling performance of CFRP/Aluminum sandwich. *Compos Part B: Eng* 2012; 43: 1480–1488.

Mohan NS, Ramachandra A and Kulkarni SM. Influence of process parameters on cutting force and torque during drilling of glass–fiber polyester reinforced composites. *Compos Struck* 2005; 71: 407–413.

Isik B, Ekici E. Experimental investigations of damage analysis in drilling of woven glass fiber-reinforced plastic composites. *Int J Adv Manuf Technol* 2010:861–9.

Ma FJ, Zhu XL, Kang RK, Dong ZG, Zou SQ. Study on the subsurface damages of glass fiber reinforced composites. *Adv Mater Res* 2013; 797:691–5.

Zhang H, Chen W, Chen D, Zhang L. Assessment of the exit defects in carbon fiber reinforced plastic plates caused by drilling. *Key Eng Mater* 2001; 196:43–52.

Konig, W., Wulf, Ch., Grab, P. and Willerscheid, H. (1985) ‘Machining of fiber

reinforced plastics', *Annals of the CIRP*, Vol. 34, No. 2, pp.537–548.

Davim J, Campos Rubio J, Abrao A. A novel approach based on digital image analysis to evaluate the delamination factor after drilling composite laminates. *Composites Science and Technology* 2007;67(9):1939–1945

Hocheng H, Tsao CC. The path towards delamination free drilling of composite materials. *J Mater Process Technol* 2005;167:251-64

Wang GD, Li N, Xiong XH, et al. 3D level comprehensive evaluation of hole quality in drilling carbon fiber-reinforced plastics. *Int J AdvManufTechnol* 2017.

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