

Femtosecond laser applications and benefits for surface texturing and micromachining applications

Gareth Wadkin

GF Machining Solutions, UK

gareth.wadkin@georgfischer.com

As femtosecond pulsed laser sources move from the laboratory and further into industrial applications, the benefits and capabilities of this technology from both a surface engineering and micromachining perspective are becoming more apparent.

Laser Surface Texturing – Applications and capabilities of Femto "IR" and "Green" Laser. Additionally, the use of twin laser sources to balance productivity and quality requirements, and finally the "hybrid" approach of combining laser ablation and die sink EDM for machining hard materials such as PCD and Carbide.

Micromachining – Applications and capabilities of Femtosecond laser for micromachining applications. Also, for some applications, can Femtosecond laser cutting be a cost effective alternative EDM for the production of miniature components?

Please send your completed Word document to: abstracts@ailu.org.uk