David Pammer, Int J Adv Technol 2018, Volume 9
DOI: 10.4172/0976-4860-C1-002

Additive manufacturing possibilities in Hungary

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Additive Manufacturing (3D printing) is todays most progressive producing technology in the industrial area and in the commercial use as well. The 3D printing process satisfy the Industry 4.0 requirements besides that it needs novel engineering thinking ("think additive"). Cost and time effective functional parts can be produced individually to many industrial fields with high quality. Production, standard and qualification systems are nowadays under development worldwide. Hungary has a growing industrial market (industrial machines, medtech, automotive, areospace, power plants, research centers, etc), where "time cost money effective solutions needs to be delivered to the market. In Hungary, there is increase in number of companies which uses different 3D printing technologies (mostly polymer based technologies), but PaB Engineering has a wide production service solutions for their consumers (metals, polymers, ceramics etc.) besides their R&D projects in the additive manufacturing field. One of these project is the test of 3D printed parts. 3D printed parts should be quality checked with destructive or non-destructive test methods and needs to be qualified according to their structural integrity criteria. To making a test system, benchmark artifacts is needed depending on the production technology parameters. PaB Enginnering has developed different types of test blocks to qualify the used additive manufacturing technology which depends on the industrial fields where the final part will used.

Biography

David Pammer is the CEO of PaB Engineering Ltd., Co-founder of 3DprintBudapest, Hungary and Assistant Lecturer in the Department of Materials Science and Engineering, Budapest University of Technology and Economics, Budapest, Hungary. He is currently pursuing his PhD. His researches are focused on testing 3D printed metal parts, developing 3d printed implants, and the measurement of stability of dental implants. His further research interest include: new additive manufactured metal materials in medical and other industry areas, benchmark artifact test block, standards, quality control of Additive Manufacturing produced parts, new technologies, design, generative optimized structures.

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