

CGS Plus: A Full Potential of MJF 3D Printing Technology in the Neighborhood

Slovenian company CGS plus d.o.o. is an Authorized Reseller and Service partner of HP 3D Printing solutions

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Photo: Jure Makovec

Tomaž Dimnik

"Since we became an official HP partner for the sales, support and servicing of HP's 3D printers, this activity is of strategic importance for the future development of our company," says Tomaž Dimnik, owner and CEO.

From various branches of industry to mobility and transportation, consumer goods and electronics, healthcare and education, manufacturing services, aerospace, military and defense - companies across different segments of industry are transforming how they design and manufacture. HP MJF 3D printing technology can unlock new possibilities that complement CNC, injection

molding, as well as additive manufacturing and powder based technologies. With HP MJF we can develop and manufacture functional and spare parts with fewer components, much faster and at a lower cost.

Each voxel contains volumetric information that will essentially bring a product to life with the desired properties. By controlling the properties of each individual voxel through agents, HP Multi Jet Fusion can produce parts

like other 3D printing technologies, HP MJF technology prints each layer of new material and agents on top of a previous layer that is still molten - so that both layers fuse completely - delivering strong, quality, detailed, and functional 3D printed parts. Transforming part properties voxel by voxel enables a future of limitless applications, materials and colors.

HP Multi Jet Fusion 3D printing technology enables production of quality functional and spare parts at a production speed that is up to 12 times faster than competing technologies. It is ideal for serial production of final parts as well as for the production of pro-

HP MJF 3D PRINTING TECHNOLOGY CAN REPLACE OR COMPLEMENT TRADITIONAL MODES OF PRODUCTION LIKE CNC AND INJECTION MOLDING

In 3D design and printing, a voxel represents a value on a regular grid in a three-dimensional space, like a pixel with volume.

that can't be made by other methods. HP MJF 3D printing technology provides a complete solution from design to final product. Un-



totypes. The most important feature of products printed with this technology is that they are equivalent to injection-molded plastic products, are isotropic, waterproof and airtight and can also be printed in colours. 3D printing is also enabling customization and personalization.

With HP Jet Fusion 4200 3D Printing Solution you can produce quality parts while optimizing productivity and cost. It's ideal for industrial prototyping and final part production environments. With HP's robust, manufacturing-ready Jet Fusion 5200 Series Industrial 3D Printing Solution you can expand and scale into volume production. The

cost-effective industrial color or mono HP Jet Fusion 500/300 Series 3D printers produce functional parts in full color, black or white and are tailored for small/medium-sized product development teams, design firms and universities.

Materials used in HP Jet Fusion 3D Printing Solutions so far are rigid 3D printing polymers

(PA 11, PA 12, PP enabled by BASF, PA 12 Glass Beads and CB PA 12) and elastomeric 3D printing polymers (BASF Ultrasint® TPU01, ESTANE® 3D TPU M95A and TPA enabled by Evonik). HP offers tools and resources that encourage and support third-party materials innovation and development.

CGS plus is also offering assistance in optimizing products for

3D printing in the development phase, 3D printing service and digital production of your products. They are currently printing with material PA 12 but can also supply products in materials PA 12 GB, PA 11 and BASF Ultrasint™ TPU01. You are kindly invited to CGS plus 3D printing demo room in Ljubljana. An experienced team of certified professionals will guide you through the process and answer any questions you may have about 3D printing. **D&C**

CONTACT:
CGS plus d.o.o.
Brnčičeva ulica 13
1000 Ljubljana
+386 1 530 11 00, info@cgspplus.si

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