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Trade Fair Novelty: Universal 3D Printing Software

Software pioneer CoreTechnologie presents a new version of the 4D_Additive software at the 3D printing trade fair Formnext 2023. The universal 3D printing tool for additive manufacturing has new functions and improvements as well as new direct connections to 3D printers based on standard file formats.

Moembris, 07.11.2023 (ab/mas) - The German-French software manufacturer CoreTechnologie (CT) presents the new version 1.5 of the innovative printing software 4D_Additive at the Formnext trade fair in Frankfurt from November 7 to 10, 2023. Optimised functions and new direct interfaces make the tool a universal 3D printing software for all 3D printers.

Automated Processes

At the trade fair, CT is presenting a new product based on the nesting functions of 4D_Additive, which allows the integration of fully automated nesting functions in MES systems in batch mode through a web service. With the system's script language, the automated nesting processes can be individually adapted to customer requirements.

With the further developed 3D nesting module, large packing densities are generated and optimum heat distribution without heat pockets is achieved. In addition, the definition of the maximum packing density is now possible.

Complex Objects with Lattices

The revised Lattice functions create complex lightweight components or individualised utility objects such as running shoes directly from CAD models at the touch of a button. All that is required is to select the desired surface areas of the CAD model and define the edge thickness, desired structure and cell size. The software thus allows the creation of complex models with just a few clicks. A total of 22 different lattice structures are available.

Editor

CT CoreTechnologie GmbH ▪ Am Klinger 5 ▪ D-63776 Moembris ▪ www.coretechnologie.com

Press Contact

PR Solutions by Melanie Schacker ▪ Tel. +43 678 1 29 27 25 ▪ E-Mail: presse@pr-schacker.de



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Surface Design Made Easy

With easy-to-use texture capabilities to create innovative surface designs and connectivity to Adobe Substance Community Assets, thousands of textures are now available for free download to design 3D printed parts.

New Build Manager and Supports

The enhanced slicing module of the new 4D_Additive software version 1.5 has a build manager for SLS and SLM printers and specific image generation processes for inkjet printers. Thus, for SLS and SLM machines, the laser paths and the laser parameters are freely defined and can be stored in the new material database. The slices for inkjet printers are defined by hollowing out the geometry with any wall thickness with different densities for the edge and fill areas. The slices are output as vector graphics or as a bitmap with full HD resolution. Specific support structures for metal printing and DLP as well as SLA printing processes are further highlights of the new 4D_Additive version.

Registration for a software demo at the CT booth D59 in hall 12.1 at Formnext as well as a free trade fair admission ticket is available at www.coretechnologie.com.

Further information on the software is available at www.coretechnologie.com/products/4d-additive.

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Background Information

The Software manufacturer CoreTechnologie founded in 1998 is headquartered in Frankfurt/Germany and has subsidiaries in France, Japan, and the USA. The company is the leading provider of 3D Computer-Aided Design (CAD) translation software, known as 3D_Evolution™ (conversion, repair, simplification, analysis), 4D Additive™ (3D printing software suite), 3D_Analyzer™ (CAD viewer with analysis tools) and 3D_Kernel_IO (CAD interfaces SDK). The mission of the company is to optimize seamless MCAD interoperability in the value chain and to develop customized solutions for PLM integration and process automation. The customer portfolio of CoreTechnologie includes 600 leading companies in the automotive, aerospace, mechanical engineering, and consumer goods industries, worldwide.

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