

## Danish Technological Institute Steps Forward in Nanomaterials Industrial Applications with CeraPrinter F-Serie by CERADROP-MGI



1st trials launched at DTI premises right after installation

“ CERADROP, a MGI Group company, has brilliantly accomplished the CeraPrinter F-Serie installation course at the premises of DTI - Danish Technological Institute. In this fast changing world the newest technological capabilities offer an incredible advance towards the exciting applications of the future. The Digital micro-additive manufacturing for 2D & 3D functional components is obviously passing through its distinguished growth!

We are so proud to be chosen by such a powerful foundation as the Danish Technological Institute. DTI provides technological services to industry covering innovative projects in various fields, one of which is Nanomaterials production.

The Modular-Based CeraPrinter F-Serie is dedicated to complex functional multi-material components design and print. The Platform offers the breakthrough approach in reaching the goal for Smart Nanomaterial applications. Its hybrid Inkjet & Aerosol Jet® materials deposition concept, an advanced software suite, curing modules and characterization options provide the most innovative and complete solution for Printed Electronics and Smart 3D Printing.

– stated Nicolas BERNARDIN, Deputy Managing Director at CERADROP



“ The CERADROP 3D digital deposition system will be instrumental for our development on both material and component level. We are observing a large push from the industry for digital production tools, and the F-Serie platform gives us the capability to develop along the entire value chain from material testing, process optimization and component prototyping and pilot production. Having the possibility to handle multiple materials and materials systems using several curing and sintering systems in the same platform will streamline both material and component development, which is not available in other printing platforms.

The F-Serie at DTI will be used as a test bench for nanomaterial development, with the purpose of process optimization and pilot production of components for industrial applications. Several industrial cases are already being pursued mainly in the sensor application domain, however, we are looking to expand into textiles and printed medicine applications in the near future.

DTI has identified the challenge of nanomaterial compatibility. This printing system has the highest degree of flexibility which allows us to focus on this main challenge.

– noted Zachary J. Davis, Team Manager, Ph.D. Nano Production & Micro Analysis at DANISH TECHNOLOGICAL INSTITUTE



Zachary J. Davis  
Team Manager, Ph.D.  
Nano Production & Micro  
Analysis

Learn more about CERADROP Equipment range  
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## ABOUT CERADROP, A MGI GROUP COMPANY

The MGI Group is composed of MGI Digital Technology, headquartered in Fresnes, France, CERADROP, located in Limoges, France and KÖRA-PACKMAT, located in Villingendorf, Germany. Founded in 1982, MGI Digital Technology designs, manufactures and markets a full and innovative range of award-winning digital presses and a complete line of versatile finishing solutions.

CERADROP designs and markets Materials Deposition Digital Printers exclusively for Printed Electronics Industry and Smart 3D Printing. Thanks to its modular-based scalable concept, CeraPrinter Series models present new opportunities for feasibility study and launch of new products into the Printed Electronics market. Combining several materials deposition technologies as well as the latest generation of curing modules, this equipment line permits to reach a wide range of application fields such as: membrane switch, antennas, sensors, passive components, interconnection, flexible solar cells (OPV), OLED Displays and others...

As the subsidiary of MGI Group focused on Printed Electronics and Smart 3D Printing, CERADROP can call up more than 60 engineers specialized in inkjet engine, mechanics, automation, software, chemistry, and ink management to supply the best materials deposition digital printing solution from advanced R&D up to 24/7 high performance manufacturing including photonic curing and high throughput manufacturing capacity of several m<sup>2</sup>/min. Moreover, CERADROP is supported by the MGI Group network in 70 countries with 50 representatives. Achieving more than 80% of its turnover from export and providing a unique process support to its customers, CERADROP makes easier and more efficient use of Digital Printing technology for Printed Electronics and Smart 3D Printing worldwide.



## ABOUT DANISH TECHNOLOGICAL INSTITUTE (DTI)

DTI is the largest technological service provider in Denmark and one of the biggest in Northern Europe. Founded over 100 years ago, the institute's core business lies in providing technological services to industry, especially SME's. SME's constitute over 90% of DTI's client base with over 14,000 assignments annually to this sector. The institute's expertise is divided into six divisions covering building and construction, materials and production, life sciences, industrial management, production technology, and energy. Together these divisions contain some 33 specialist competence centres with over 22 accredited laboratories providing testing and certification services. The institute is recognized as the leading training and educational institution with focus on industry in Denmark and abroad. DTI also advises SME's in the electronics sector on new business development opportunities and assists in the transfer of new technologies.

The Center for Nano Production and Micro Analysis, part of the production division, has its main focus within the industrialization of nanotechnology with over 20 years of experience. Currently employing over 35 engineers, senior scientists and technicians, this center is performing industrial R&D within novel energy system, nano catalyst materials and printed electronic materials and process as well as performing industrial ISO certified micro analysis services.

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