

## Tampere University of Technology Targets New Printed Intelligence Applications with the CeraPrinter F-Serie by CERADROP-MGI



CERADROP, a MGI Group company, expands its horizon and welcomes their new customer and partner – The Tampere University of Technology.

TUT is located in Tampere, the Nordic countries' largest inland city, and conducts research in the fields of technology and architecture. TUT has an extremely strong societal impact by generating research knowledge and competence for the benefit of society. The University is a strong partner for collaborative research and development projects with business and industry by providing an excellent ground for innovation.

CERADROP is proud to collaborate with such a prestigious foundation and provides TUT with its cutting-edge equipment for advanced R&D and production purposes. CERADROP expertise is focused on design and manufacturing of advanced systems for printed electronics and smart 3D printing and is based on the company's strong knowledge in materials science. The CeraPrinter F-Serie enables complex functional multi-material components design, printing and characterization and represents a breakthrough for emerging applications in organic and printed electronics. Providing our customers with such an all-in-one tool for complex systems is in the core of our company's mission. We are continually expanding our network all over the world in order to offer users flexible digital printing solutions that permit them to overcome any challenge in complex functional device manufacturing.



– stated **Nicolas BERNARDIN**, Sales and Business Development Director at CERADROP



*Successful first on-site experiments*



The CERADROP F-Serie is operating in the Laboratory for Future Electronics of Tampere University of Technology, Finland, for the additive manufacturing of high-resolution thin-film electronics, energy autonomous sensors, conformable wearable electronics (soft/stretchable, on-skin, textile), and hybrid systems. The CeraPrinter strengthens TUT in academic research, but also strengthens our close collaboration with industrial partners in the field of printed and organic electronics.

We chose the CeraPrinter F-Serie because it offers a complete modular high-resolution inkjet platform with integrated post-processing options and a user-friendly interface.

The main advantages are:

- High-accuracy printing with excellent layer-to-layer registration
- Support of various inkjet heads from disposable cartridges to high-quality industrial heads
- Integrated drop watcher with software for automated drop analysis
- Integration of online annealing units i.e. UV LED and near infrared
- Integrated 4-point resistance measurement system
- Fully integrated software, with a single interface, for print file/program design, printing, post printing processes, and post-printing characterization

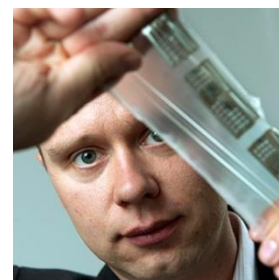
The equipment gives us the opportunity to print functional materials for numerous applications in the field of electronics, bioelectronics, and optoelectronics. The great support from CERADROP team and our first on-site experiments have demonstrated that we made a right choice.



– noted **Professor Matti Mäntysalo** at TAMPERE UNIVERSITY OF TECHNOLOGY



**TAMPERE  
UNIVERSITY OF  
TECHNOLOGY**



*Professor Matti Mäntysalo*



## 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 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 TAMPERE UNIVERSITY OF TECHNOLOGY

Tampere University of Technology is at the leading edge of technology development and a sought-after collaboration partner among the scientific and business communities. The University produces competent graduates who enter careers in the different sectors of society.

Tampere University of Technology and the University of Tampere are being merged to create the new multidisciplinary foundation-based Tampere University on 1 January 2019. The priority areas of the new university, the second-largest in Finland, will be technology, health and society. Tampere University Foundation that operates as Tampere University will also become the majority shareholder of Tampere University of Applied Sciences. This new higher education community in Tampere will be made up of 30,000 students, 330 professors and 4,400 employees.

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