DEMCON

- # High-end technology supplier of systems and products
- Development from concept to prototype and into industrialization and (series) production

DEMCON

- **#** Founded 1993
- ⇔ > 800 employees
 - > €100mln revenue
 - Maria Independent
 - Market International

Markets

- High-tech / semicon
- Medical / life sciences
- Opto-mechatronics
- Industrial / robotics
- Thermal and cryogenics

Serving our worldwide customer base from 7 locations

Rest

nschada DTC

Enschede R&D

Delft

Groningen

Münster (D)

Singapore











DEMCON – people, competences and knowledge

'Tailor-made systems: from definition to production'

Construction principles **Precision mechanics** System engineering and architecture Vacuum technology System design and integration Magnetic- and air bearings Mechanical Magnetic shielding Motion control Thermal control Industrial design Actuator design Mechatronics Signal processing Optical system architecture & design Sensor development Laser beam delivery, shaping & conditioning Alignment, metrology, surface & image analysis Optics and vision Active/passive gravity compensation Lens design, qualification and assembly System Piezo actuation and sensing Adaptive optics Biomedical spectroscopy & microscopy Machine learning Engineering Thermal **Analysis Dynamics** Micro-controllers, FPGA Electromagnetic CFD, FEM, multiphase PCB design and layout Electrical Mechanical tolerance and capability analysis Cabinet and cabling design ISO 9001, 13485 Quality engineering FMEA Power electronics **EMC** Legislation Highly educated and Safety Realtime Software Manufacturing skilled team PLC (Siemens, Beckhoff) Cleanroom (ISO6) assembly **Embedded** ~20% PhD Proto-type and small series assembly Windows based, C+, C#



~50% MSc

~30% Bsc

Additive manufacturing – University of Nottingham

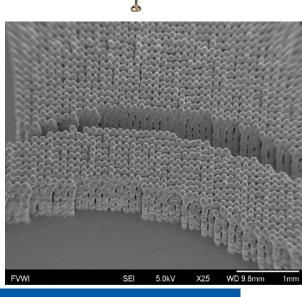
Project description;

DEMCON was asked to develop a custom metal printing platform for UoN, incorporating:

- Substrate manipulation platform
- Conditioned print chamber
- Metal jetting printing heads (developed by 3rd party)
- Calibration camera's
- Software architecture
- Etc...









Additive manufacturing — Bond3D

Project description;

BOND3D envisioned a 3D printing technology for high performance polymers like PEEK, PAEK etc.

DEMCON has developed a complete industrial additive manufacturing system, based on experience with various test-setups and prototypes (to perfect all aspects of the 3D printing process).

'From proof of principle setup to end-product'









