



www.perron038.nl

discover | develop | deliver

in our

FACTORY OF THE FUTURE

PERRON038 IN ZWOLLE, THE NETHERLANDS



ABOUT

PERRON038

Founded in 2019 by five leading companies in the manufacturing industry, Perron038 today is a vibrant place where technology meets humanity. Located in the innovation district of Zwolle area.

Where researchers, students and companies get inspired, work together, and experiment.



ACTIVITIES



FACTORY OF THE FUTURE

Five high-tech labs to:

DISCOVER

Get inspired by demonstrations and events

DEVELOP

Trainings and workshops (Academy)

DELIVER

Conduct research projects and test before invest

FACTORY OF THE FUTURE



Flex Factory of the Future



Robotics & Logistics



Vision & Optics



Artificial Intelligence



Additive Manufacturing

Co-developed by



hollander
techniek

AWL.

 **Tembo**

 **Tembo**

hogeschool 
Windesheim

FLEX FACTORY OF THE FUTURE



Working with new technologies is one thing, but digitally linking, monitoring and improving your processes is at least as important. In this lab you'll experience the endless possibilities of Digital Twin and MES.

Work with us:

- Develop a Digital Twin
- Develop a virtual operator training
- Visualize your production process data

Available hard- and software:

- VR and AR set-ups
- Visual Components license
- MES demonstration model

ROBOTICS & LOGISTICS



Robots, cobots and AMRs (automated mobile robots) can be found in more and more factories. In the factory at Perron038, you will find two integrated robot cells that allow you to explore which of your process steps a robot can perform. For example, in the field of assembly or logistics.

What is unique about this setup is its flexible set-up: the robots can handle any type of product, as long as it physically fits in the cell. With manual workstations next to the robots, both automated and manual operations can be combined.

Work with us:

- Conduct a feasibility study including a physical test set up
- Design and test a new, robotized production process: test before invest

Available hard- and software:

- 2 ABB industrial robots with automatic tool change
- Conveyor system with Bosch TS2 carriers
- Beckhoff PLC
- Two manual workstations with digital work instructions



VISION & OPTICS



Vision technology is here to stay. Widely used in production processes for e.g. quality control, product inspection, detection and facial recognition. It provides new insights in ways that were hardly measurable before.

In the factory at Perron038 you'll find a one-stop-shop for analyzing in any spectral range. It enables you to deploy multiple optical measuring devices at once.

Work with us:

- Perform a spectral analysis of a specific product or material
- Rent our cameras for product recognition / quality control research

Available hard- and software:

- Specim FX10e Spectral camera
- Specim SWIR Spectral camera
- Thermo and UV cameras
- ATOS Q 3D-scanner
- Multiple lenses

ARTIFICIAL INTELLIGENCE



Data learning and AI can no longer be ignored in the manufacturing industry. In our factory of the future, we help you as a company to build and train AI models. Don't have your own dataset or AI model available (yet)? Then we use Genesis to generate datasets and build, test and validate AI models based on them.

There are cameras and sensors everywhere in the machine that monitor the production process. A huge amount of data is generated during the process. And that data, you can use it!

Work with us:

- Demonstration of futureproof machine building
- Generate datasets for AI model training
- Bring your own data set and develop AI models together with our specialists

Available hard- and software:

- Tembo Genesis: high speed assembly machine
- Several VR and AR set-ups
- Beckhoff Neural Network Inference Engine TF3820



ADDITIVE MANUFACTURING



Additive manufacturing: the process of building a model layer by layer from a 3D design (or CAD data). It is technology that can no longer be ignored in many industries. In the factory at Perron038, you will therefore find a unique combination of machines to get started yourself.

Laser Powderbed Fusion 3D printing, Meltio 3D printing and Coldspray: a combination of these three techniques that you won't find anywhere else in Europe at the moment!

Work with us:

- Experiment with one of the AM machines
- Design and 3D print objects
- Conduct research projects together with our researchers

Available hardware:

- Tomic Coldspray printer
- Minifactory Ultra 2
- HAAS CNC with Meltio 3D printing
- GE Additive M2 Series 5 (AlSi10Mg)
- GOM ATOS 3D Scanner

MORE INFORMATION? GET IN TOUCH!

Fill in our enquiry form:



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