

PRESS RELEASE

VTT equips laboratory with a bench scale unit from hte

HEIDELBERG, Germany [December 17, 2019] hte – the high throughput experimentation company supplied a customized four-fold bench scale hydroprocessing unit to VTT, a Finnish research, development and innovation organization.

VTT ordered a hydroprocessing bench scale unit that can process a variety of feedstocks. In particular, the unit has proven its worth in testing bio-based feedstocks and materials – a function that supports VTT’s drive to create tomorrow’s bioeconomy. The four-fold unit will be delivered to a new laboratory at VTT’s Bioruukki pilot center in Espoo.

The bench scale unit selected processes feedstocks with catalyst volumes from 10 to 50 ml and can be deployed to transform biomass into many other bio-products. High throughput experimentation has proven to be a highly valuable tool for accelerating the development of novel catalytic processes; this acceleration can now be utilized in the conversion of bio-based feeds, since chemical catalysis plays a major role. hte’s experience in testing difficult feedstocks is applied in the engineering of this unit. Thus, the technology significantly reduces the time to market for all novel bio-based products, such as bio-fuels and bio-chemicals.

“VTT opted for hte because of the company’s experience in innovative technology. We wanted to be able to test various feedstocks, which is why we chose hte as a partner to build our new unit. It will enable us to research further into new materials that are environmentally friendly,” states Antero Laitinen, Process Chemistry Development Manager from VTT.

Wolfram Stichert, CEO at hte, comments: “We are pleased to have been selected by VTT, a leading research institute in Nordic countries, for such an innovative testing unit to accelerate their research on bio-based feedstocks. hte has drawn on its wealth of experience to develop

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this unit so that our customers can use it to generate chemicals with promising functionalities from novel feedstocks.”

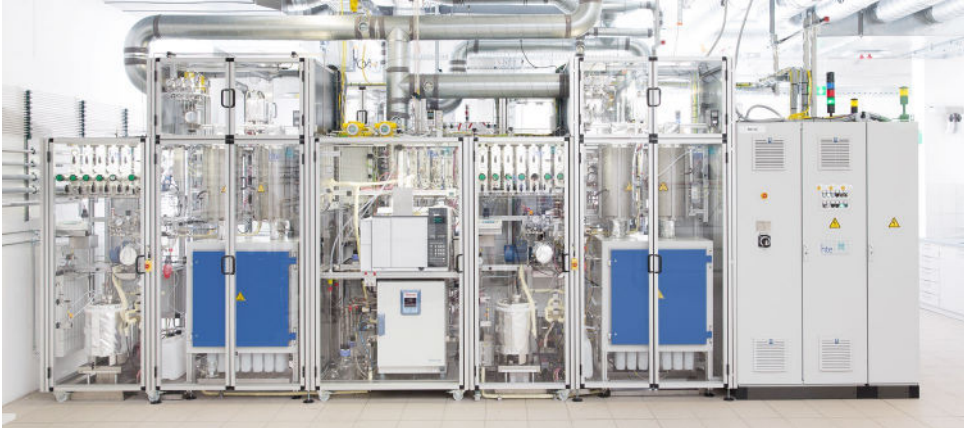


Figure 1: Four-fold Bench Scale Unit

About hte

At hte – the high throughput experimentation company, we make R&D in the area of catalysis faster and more productive. We enable cost-effective innovations and reduced time to market for new products, thereby allowing our customers in the energy & refining, chemical & petrochemical, and environmental industries to keep ahead of the competition. Our technology and services comprise:

- **R&D Solutions:** highly efficient contract research programs at hte’s state-of-the-art laboratories in Heidelberg, Germany
- **Technology Solutions:** integrated hardware and software solutions, enabling our customers to establish high-throughput workflows in their own laboratories.

Our customers benefit from broad technical and scientific expertise, exceptional customer orientation, complete end-to-end solutions, and outstanding data quality. Our close ties with BASF guarantee long-term orientation and stability. For more information, visit our website www.hte-company.com.

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About VTT Technical Research Centre of Finland Ltd

VTT is a visionary research, development and innovation partner. We drive sustainable growth and tackle the biggest global challenges of our time, turning them into growth opportunities. We go beyond the obvious to help society and companies to grow through technological innovations. We have over 75 years of experience in top-level research and science-based results. VTT’s turnover and other operating income is €268m.

VTT is at the sweet spot where innovation and business come together.

VTT – beyond the obvious.



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