

Afore and Bluefors develop the first-of-its-kind cryogenic tool, “The Crogenic Wafer Prober”

Afore, a pioneer in the MEMS test equipment industry, is proud to present a new cryogenic tool, which is developed to make full 12” wafer probing at cryogenic temperatures below 4 Kelvin possible. This new first-of-its-kind tool is developed with Bluefors, a market leader of cryogen-free dilution refrigerator systems.

Our customer, Intel, identified the need for a quantum testing tool to collect more data about quantum chips called “qubits.” This new tool allows up to 100 times faster throughput in sample characterization and we foresee that it will dramatically help speeding up the developments of cryogenic quantum devices, electronics and detectors.

With the new cryogenic tool, Afore and Bluefors will penetrate the new market and benefit companies and research institutes to speed up the development of devices that need testing and characterization in temperatures near absolute zero.



“This was indeed a challenge, and to be able to take on a tool like this, we reached out to another Finnish company, Afore, which has long experience in specialized wafer probe systems. Together we came up with a design for a tool, the cryogenic wafer prober, which we now have constructed and assembled. We are looking forward in excitement to see the advances this tool will bring to the future of quantum computing.” says Dr. David Gunnarsson, Bluefors chief sales officer and principal scientist.

“When two companies with most innovative solutions in their market bring all their knowledge together, a gamechanger can be created. We are thrilled working with Bluefors and use our expertise in specialized wafer probers to help quantum computer development to the next level” says Mr. Vesa Henttonen, Managing Director of Afore.

About Bluefors

Bluefors Cryogenics specializes in cryogen-free, ultra-low temperature dilution refrigerator systems aiming to supply the highest possible quality products. We deliver systems for cutting-edge research fields such as quantum computing and nano-technology. BlueFors technology was developed at the world-famous Low Temperature Laboratory (LTL) at Helsinki University of Technology (now Aalto University). In 2007 the first dry-DR was taken into use by the NANO-group of the LTL, shortly after BlueFors Cryogenics was established as a company. With over 400 systems installed worldwide, we are the leading supplier of cryogen-free dilution refrigerator systems. www.bluefors.com

About Afore

Founded in 1995 and located in Finland AFORE is a pioneer supplier of test equipment for the MEMS industry and related markets. We are specialized in providing specialized wafer probers for sensor and semiconductor testing in wafer level. Being part of the AEM Group, we take pride in providing innovative, engineering-focused solutions and developing strong partnerships with customers and associates to cater to their manufacturing needs through our global engineering service support network and innovative people. www.afore.fi

About AEM Holdings Ltd

AEM Holdings Ltd is listed on the main board of the Singapore Exchange (Reuters: AEM.SI; Bloomberg: AEM SP). AEM Holdings Ltd ("AEM") aims to be among the world's leading companies providing solutions in equipment systems; precision components and related manufacturing services across various industries. AEM takes pride in providing innovative, engineering-focused solutions and developing strong partnerships with customers and associates to cater to their manufacturing needs through our global engineering service support network and innovative people. Currently, AEM has 4 manufacturing plants located in Singapore, Malaysia (Penang), China (Suzhou) and Finland (Lieto). Through our network of sales offices, associates and distributors, we have a global market presence spanning Asia, Europe and the United States. www.aem.com.sg

For more information please contact:

Financial PR Pte Ltd

Romil SINGH / Reyna Mei
Financial PR Pte Ltd
Tel: 6438 2990 / Fax: 6438 0064
E-mail: romil@financialpr.com.sg / reyna@financialpr.com.sg