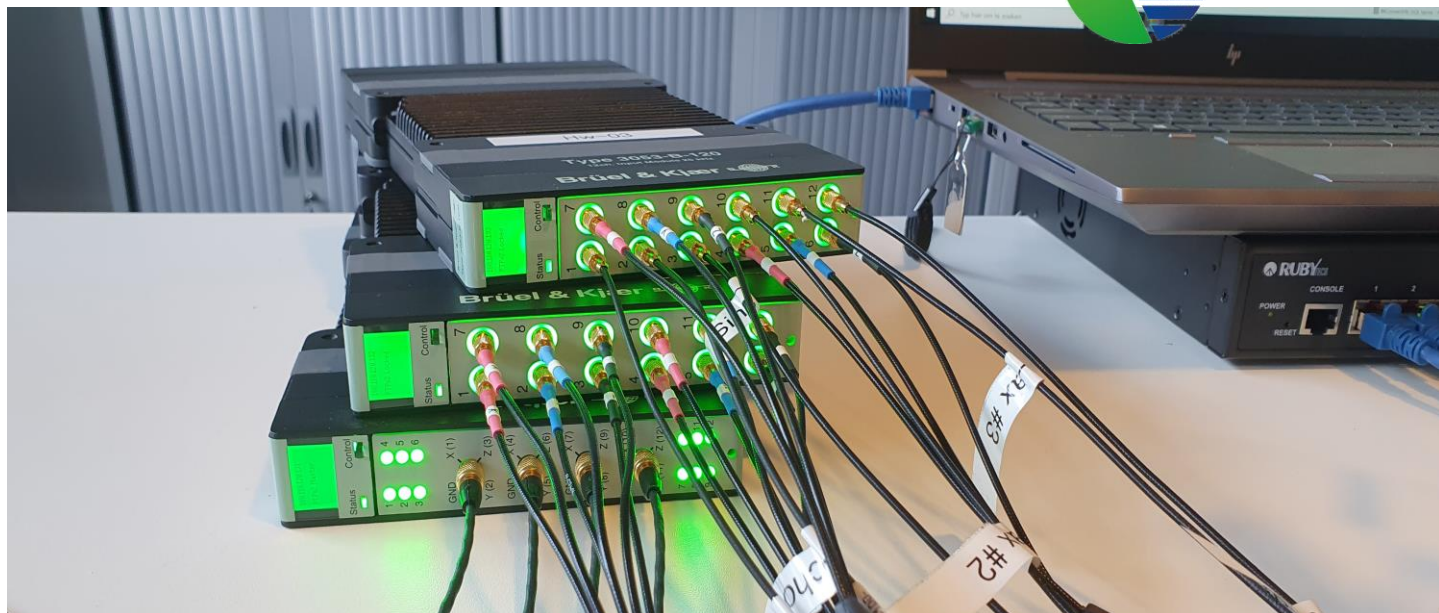


Van Cappellen Consultancy

*For 40 years, the standard in
luxury yacht building*





Innovation and expertise in sound and vibration measurements for luxury yacht building!

Van Cappellen Consultancy, a name synonymous with professionalism and outstanding service in the world of luxury yacht building. Treeske Van Cappellen, co-owner and daughter of the founder, has been working at Van Cappellen Consultancy for 25 years and has helped shape the company into a highly respected firm that has guaranteed craftsmanship and innovation for over four decades. "For the client, Van Cappellen Consultancy is a team of sound and vibration experts. We are often seen as the go-to experts for conducting independent measurements. That's why 'Consultancy' is also included in the company name," Treeske explains.

About Van Cappellen Consultancy

Van Cappellen Consultancy (hereinafter referred to as VCC), founded in 1984 by the father of the current co-owner, specializes in services related to sound and vibration damping for luxury yachts and merchant vessels. VCC was born out of a client's need for an expert in the field of sound and vibrations. In the early years, the clientele was primarily Dutch, but VCC has since developed a global customer base, with its largest markets being the Netherlands, Italy, France, Spain, and Turkey.

"We have many competitors. But our greatest asset is the fact that, due to our 40 years of experience, we have built up a wealth of knowledge and expertise. This sets us apart from our competitors. We have insights and experience in various markets, which adds value for our clients," Treeske states.

"Our greatest asset is the fact that, during our 40 years of experience, we have built up a wealth of knowledge and expertise"

- Treeske Van Cappellen

Family business with opportunities

VCC is a true family business. After the founder's passing, the children took over the company. "In the early years, the focus was primarily on commercial shipbuilding, such as tankers. Over the years, we have specialized in luxury yacht building. Thanks to all the knowledge and experience we have gained over the past 40 years, we have become a well-known name in the world of luxury yacht building, and we are certainly proud of that," Treeske shares.

A core value that VCC prioritizes is its identity as a family-owned business. The company fosters a relaxed atmosphere and maintains a flat organizational structure, which minimizes distinctions between management and staff. Additionally, the provision for occasional relaxation is crucial for the well-being of the VCC team. The pleasant working environment is evidenced by the longevity of most employees, many of whom have been with the company for several years.

This is affirmed by Aron den Hollander, project engineer at VCC. "I started as a dual student with no prior affinity for sound and vibrations. I truly began as a novice, and over the years, I have specialized in the field of vibrations. I have received the trust from VCC to fully develop in this area by attending various training programs and participating in several educational projects.

"What I find most rewarding about this job is the opportunity to engage with the client throughout the entire process. This includes collaborating on the initial request, developing effective solutions, executing the project, and providing comprehensive feedback. Additionally, the variety of projects ensures that no two assignments are alike, which contributes to the dynamic nature of the role. At times, I may be focused on FEM designs, while at other times, I could be working on drafting insulation plans or conducting multi-channel measurements".





Enhanced efficiency in sound and vibration measurements

LAN-XI data-acquisition

"To conduct the measurements, we utilized a 4-channel analyzer. However, we encountered some limitations in certain projects, particularly when we needed to measure both acceleration and velocity on board the yacht. The constant switching with the 4-channel analyzer was not an efficient way of working. We then conducted market research and invited various suppliers, including ENMO.

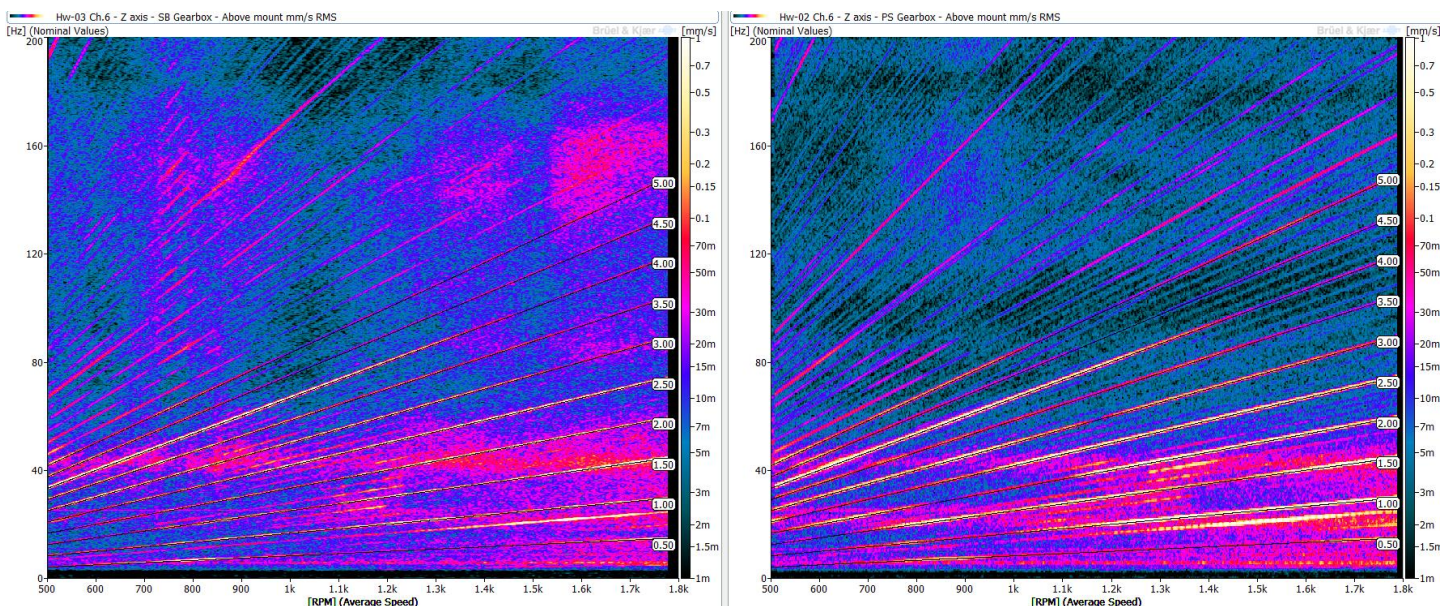
ENMO then demonstrated the HBK 3676-B-040, the [LAN-XI data-acquisition system](#). We were immediately impressed by the HBK equipment, particularly its time signal analysis capabilities. Another decisive factor was that the HBK equipment already included certain standards (WM filter) as part of the software. The user-friendliness of the HBK equipment also influenced our decision to choose ENMO and, consequently, HBK. Over the years, we have made significant investments and expanded our equipment with various multi-channel systems, as well as different licenses for BK Connect. This expansion enables us to undertake highly comprehensive projects.

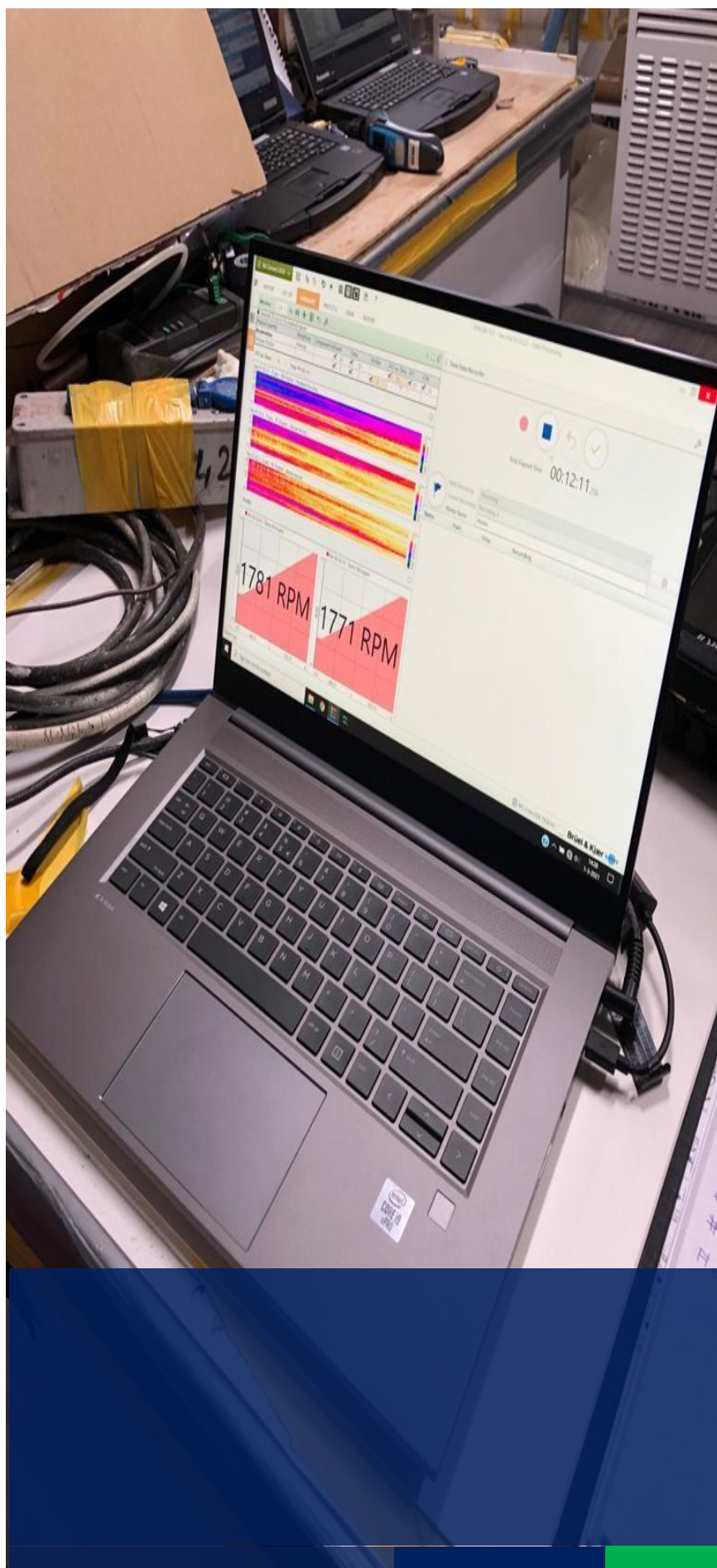
For certain projects, the multi-channel system is already standard equipment during the sea trial day, connected to the propulsion system so that we can measure the full RPM range. If anything unusual arises, we can always identify it in the data, thus preventing additional costs for the client associated with an extra sea trial day.

In addition to the HBK multi-channel system, we also possess various [HBK sensors](#), specifically the 4381 and 4533-B-001 models. Initially, we used PCB and MMF sensors, but we switched to HBK sensors due to the setup and flexibility offered by the HBK sensors. The HBK sensors are very compact, making them easy to deploy and highly adaptable," Aron explains.

Knowledge & Professionalism

Treeske adds that the knowledge and professionalism of ENMO also played a significant role in their decision. "Whenever we encounter challenges, we can always turn to ENMO for support. We received excellent assistance and advice during our initial modal analysis measurements. ENMO's expertise regarding the [BK Connect software](#) has proven invaluable as well. For instance, Aron attended the 'Modal Analysis for Dummies' course organized by the [ENMO Academy](#) which provided him with new insights into the software. We are now capable of conducting FEM analysis of engines, ODS analysis, and verifications, thanks to the modal analysis from HBK. Additionally, we have an HBK 2250 sound level meter that we use for specific sound measurements. The significant advantage of the HBK 2250 is that, with the tone assessment license, we can immediately determine whether tonal noise is present while on board."





VCC & ENMO: a dynamic partnership

"As previously mentioned, we have a very positive relationship with ENMO. They consistently assist us in a professional and prompt manner with all our inquiries.

Their collaborative approach at the beginning of a project—helping us determine which equipment we need and how it fits within our budget—is a significant asset. Additionally, the flexibility of ENMO is crucial; our clients expect us to be highly adaptable, and we expect the same from our suppliers

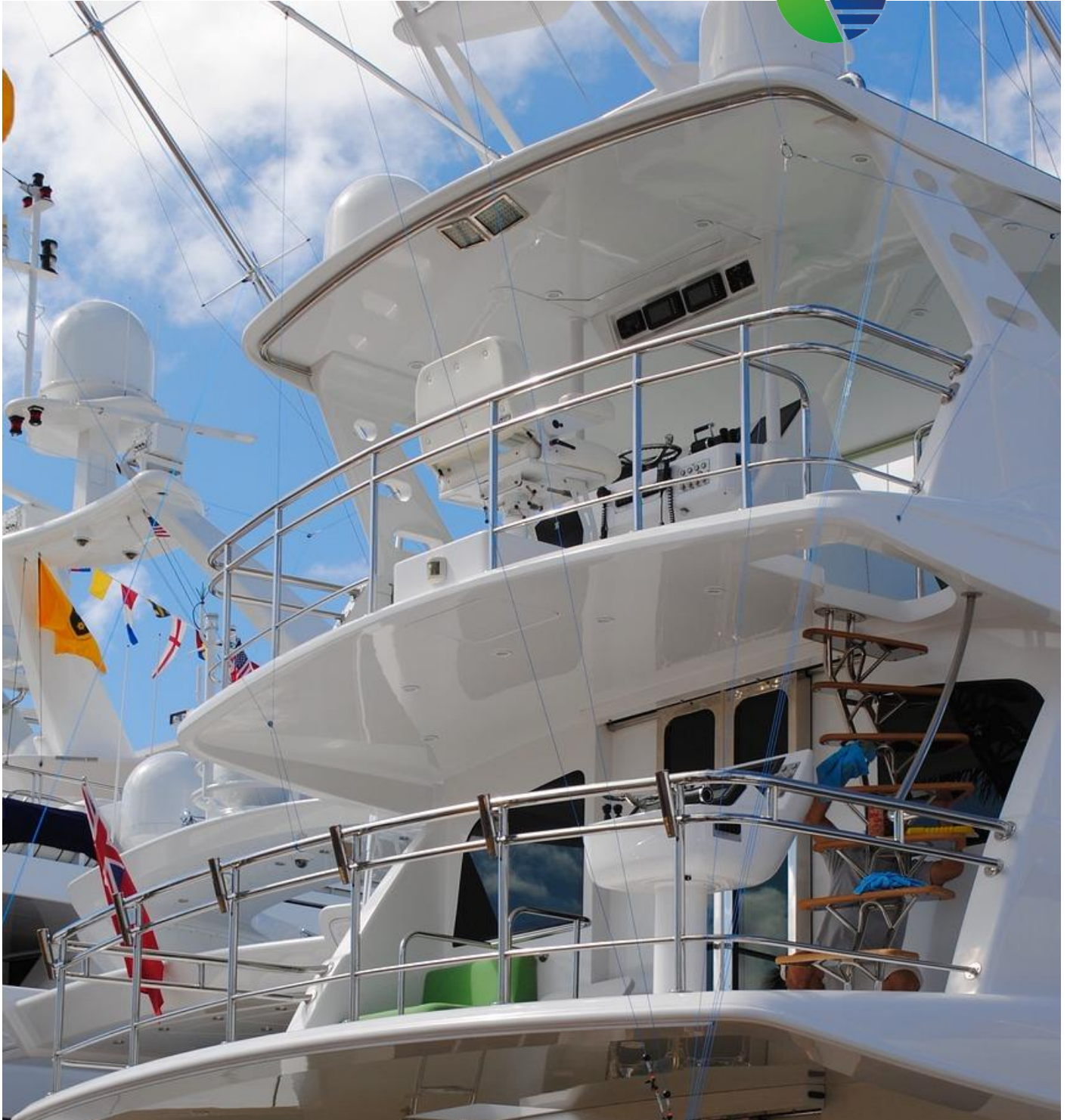
At ENMO, we have noticed their exceptional flexibility in considering or adjusting schedules. It's truly beneficial that they can respond so quickly. Another advantage is, of course, ENMO Services' [calibration lab](#). All equipment can be calibrated in-house, allowing us to receive our equipment back in a very short time," Treeske states.

The name VCC is not merely a label but rather a symbol of excellence and dedication to craftsmanship, as evident in their sound and vibration measurements conducted with advanced ENMO equipment.

With an impressive track record of 40 years and a continuous commitment to innovation, the company continues to set the standard in the world of luxury yacht building.

"ENMO stands out for their ability to collaborate with the client and their flexibility."

- Treeske Van Cappellen



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With thanks to:
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