What drives us? Optimising each yacht's individual production through digitalisation.

Always striving for innovative solutions, we focus on digitalisation as a tool for improving the yacht's entire production process. Whether we are talking about greater sustainability through paperless production, fault prevention through complete transparency of individual manufacturing processes or even speeding up the manufacturing process through the intelligent use of real-time information, you can rely on LÜRSSEN as an excellent, pioneering partner.

LÜRSSEN - sustainable yachting makes the difference.



DIGITALISATION IN THE PRODUCTION PROCESS

The Lürssen Think Tank Technical Whitepaper



THE LÜRSSEN THINK TANK

The construction of supervachts is highly complex, but by making information relating to the build more available and transparent, this complexity can be better managed. Philipp Krüger, director of production at Lürssen, explains how Lürssen does this through digitalisation in the production process, resulting in supervachts being built in a more efficient and cost-effective way.





DIGITALISATION IN THE PRODUCTION PROCESS

Digitalisation is an increasingly important and centralised. At these workstations, topic in manufacturing around the world, with car manufacturers leading the way in this regard. In the full-custom superyacht industry, however, achieving digitalisation in the production process can be complicated: since each of our products is so cations are quick and simple to update on unique, and every single piece of our yachts is bespoke, there are very few standardised processes, which makes digitalisation challenging.

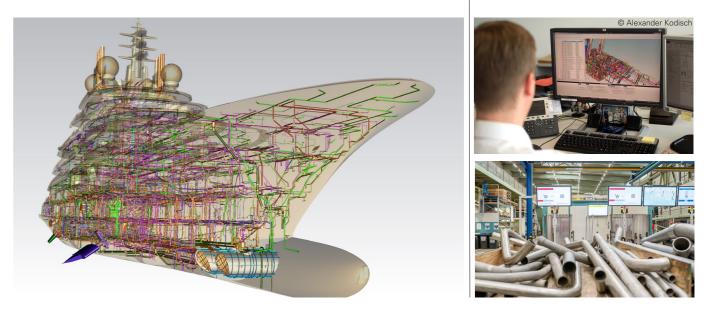
To overcome this barrier and apply digitalisation in the production process of unique products, Lürssen has, for example, invested in a laser-marking device designed solely for our use and has set out to make every piece of the yacht intelligent by giving it its own data matrix code that links to all its relevant data. When the data matrix code is scanned, therefore, our system brings up detailed information about where the piece belongs, when it needs to be there, and the quality steps it needs to go through.

With this concept, our workforce no longer works from paperwork and drawings, but from workstations with touchscreen displays into which all information is fed exact pipe again in our workshop and send

every time a piece of material and its data matrix code is scanned, the most up-to-date drawing is easily accessed and displayed.

The key impact of this is that any modifi-Having completely digitalised the production of all pipework at Lürssen in 2019, and proved that the concept is successful. the system, meaning the client can continue to make decisions about the design of we are now rolling it out to the hull and superstructure. The next step is to expand certain areas of their yacht while we are building the superstructure, foundations the concept to the cabling. However, while and pipework. It saves time and money, our ambitions with regards to digitalisation and by digitally sorting the production of are high, you will not be seeing robots pieces in a way that optimises the amount taking over all the work in our shipyard - we of material needed, we significantly reduce will always need a highly skilled workforce waste material - a highly advantageous to meet the owner's demands. All digitalconcept. It really is a game changer. isation does is make production more efficient by making information available Such digitalisation could also offer signifiand transparent.

cant benefits in the after-sales department, if requested by the owner. For example, if At Lürssen, we are very lucky to have a vacht needs to exchange some pipework been given the opportunity to invest in according to the maintenance plan before digitalisation in the production process, because it's a significant investment and it breaks, we would no longer send team members and materials out to the vacht to such investment always comes with risks. make the replacement. Instead, the crew But Lürssen is a company that welcomes could scan the pipe with an iPhone, send new ideas and ways to optimise, and as a the coding over to us and we can build the result we are always innovating and pushing forward.



it to the yacht without having to travel there. Again, it saves time and costs, but it also increases the availability of the systems for the owner.



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