EXTENDING PREFABRICATION

HB HUNTE ENGINEERING
knows how a shipyard works

The Oldenburg-based Brand family has been involved in the shipbuilding industry for six generations since 1850. They founded the HB Hunte Engineering GmbH in the nineties turning it into one of the leading naval architecture and marine engineering companies in Germany. They now offer marine designs from trifle to 3D-modelling of complete and complex ship structures, ship and machinery systems and gas plants including required and related calculations.

HB Hunte Engineering has extensive experience in newbuildings as well as conversions, retro-fits and repairs.

A container ship’s severely corroded cooling water system:
• Our 3D scanner created the point cloud data;
• A new rubber-lined piping system was re-engineered, pre-manufactured and installed – fitting without any adjustments on board.

A 10,000 TEU container ship’s MGO tank extended into a void space:
• Our 3D scanner provided the engineering database;
• Wall and bottom structures engineered, prefabricated and installed forming a cofferdam (protection) against shell.
• The Chinese shipyard receiving a full set of workshop documentation with cutting parts;
• Job done in time and to the satisfaction of owner and yard.

3D-SCAN APPLICATIONS
Find out how 3D-scanning can contribute to planned conversions, retro-fits, modifications, and how our «digital shipyard» will save your time and money.

HB HUNTE ENGINEERING
The obvious and distinct benefit is the – a virtual after-image of real steel – reversing treatment system will fit and how (or if not, admitted); and this at an accuracy of millimeters or less.

Ash built often not as built

- Install a Ballast Water Treatment Plant?
- Increase your fuel efficiency?
- Install an exhaust gas treatment system, a scrubber or an SCR?
- Establish virtual accurate pipes?
- Retrofit your vessel with a dual fuel system?

And you are only too aware that all drawings which even might not reflect the actual arrangement onboard?

The answer is: 3D-scanning!

The new system: pipes, structures, components, sections can be vastly pre-fabricated; adjustments during installation remain marginal. No more fiddling and fumbling with piecemeal piping bits to your restricted satisfaction in the end!

Any retrofit, repair, conversion begins with a reverse engineering – an abstract back from the touchable manifestation in steel to virtually in software.

If not, we will be at your site.

The answer is: 3D-scanning!

Feasibility study: onboard survey and 3D laser scan – do not disturb!

A 3D laser scan does not take longer than one person’s call. We will survey together with the ship’s operator or schedule. The 3D image (point cloud) captured allows for maximum pre-fabrication, bypassing the frailties of manual measuring and minimizes expensive misfits and patchwork onboard.

Prefab: welcome parts ready.

Using the detail engineering data, piping, foundations, even complete bulkheads can be pre-fabricated, controlled and approved timely before dry-docking and notwithstanding the vessel’s schedule. In the meantime you can assume yourself of the yard’s workmanship and quality with the good feeling that the vessel’s money earning time is clipped only to the absolute minimum.

Purchase: additional costs – no, why?

With a vessel engaged in worldwide trade, choosing a shipyard to depend on is difficult.

With the feasibility road map acting as tender documentation, no shipyard can claim: not to have known… and even less so with detail engineering ready and complete with production drawings, material weights, components, pipes and instruments lists.

So, quotations become comparable, and if you still need assistance in your decision: let us know.

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