

New project MARIN and partners



Full-scale verification test of the ultimate strength of hull girders.

Recent accidents involving ship breaking have drawn attention to the importance of being able to predict the ultimate

strength of hull girders, in intact and damaged conditions. Present methods are calibrated against small-scale tests and there is no full-scale data available.

One could ask does the industry need this full-scale data? The answer is YES, because fracture and buckling of real (imperfect), complex, plated structures cannot be reflected in small-scale tests. We still have to learn about real failure mechanisms and we have to know the real safety margins involved.

The scope of work includes the full-scale breaking of an inland ship and a comparison with present prediction methods. The main aim of the project is to provide the industry with a well-documented set of data.

The project is the initiative of TNO, which successfully carried out full-scale collision tests, Bart Boon Research & Consulting and MARIN.

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